

**THE COMPOSITION OF  
SOME COMMERCIAL INSECTICIDES,  
FUNGICIDES, BACTERICIDES,  
RODENTICIDES AND WEED KILLERS**

A COMPILATION  
(SUPERSEDING BULLETINS 300 AND 346)

H. J. FISHER AND E. M. BAILEY



Connecticut  
Agricultural Experiment Station  
New Haven

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# The Composition of Some Commercial Insecticides, Fungicides, Bactericides, Rodenticides and Weed Killers.

A COMPILATION

H. J. FISHER AND E. M. BAILEY

**F**REQUENT requests for information as to the composition of commercial insecticides, fungicides and similar materials suggested the desirability of assembling the data on the subject to be found not only in various bulletins of the Station but in those of institutions in the states where similar work is carried on. Designed at first for our own convenience, it was later felt that the information would be useful also to others interested. The assembled data were published in 1929 in Station Bulletin 300, and a supplement (Bulletin 346) was issued in 1933. Bulletin 300 is now out of print, and as a considerable number of analyses have been accumulated since the publication of Bulletin 346, the present bulletin has been prepared to replace these former publications.

No pretense is made that this compilation is complete, but it is, at least, fairly comprehensive. For the most part the data were obtained from regular or special bulletins submitted by experiment stations or other state departments in response to our request for information on this subject. If any important sources of information are omitted, it is because our requests were not referred to, or did not reach, the proper authorities.

Since very old analyses are of little or no value in indicating the composition of insecticides now on the market, no analyses published prior to 1922 have been included in this compilation.

Only one analysis is given for each product except in those cases where different analyses have shown widely different composition. In such cases several analyses are included. An attempt was made to insert the latest analysis found in each case. When the latest publication found containing analyses of a certain insecticide or other product has given several analyses of that product, the figures in the index are usually averages.

It should be noted that the percentages given under "guaranteed" in the index represent maximum amounts in the case of water, inert matter and water-soluble arsenic, while the guaranties for other constituents are usually stated by the manufacturers as "not less than" the amount specified.

The index is arranged in alphabetical order by names of the products. Names beginning with arabic numerals are indexed as they would be if the numeral were spelled,—i.e., "20" is listed under "T". Certain common classes of insecticides are grouped together in tables alphabetically by the names of the manufacturers, but they are also cross-indexed by the names of the brands. An exception to this rule is made in the case of arsenate of calcium, arsenate of lead, Bordeaux mixture, lime-sulphur, Paris green and sulphur, which will not be found listed separately by the brand names, but only under the tables for these respective classes of insecticides.

Reference is made after each analysis to the source from which it was obtained. Some of the analyses are those made at this Station and not previously published. After such analyses the sample number and "Conn. Agr. Expt. Sta." is given in place of a publication reference.

No responsibility is assumed for the correctness of any analyses other than those made by this Station.

The following publications were abstracted:

California Department of Agriculture, Special Publications 34 (1923); 51 (1925); 58 (1925); 66 (1926); 75 (1927); 101 (1930).

Canada Department of Agriculture, Division of Chemistry, Report of the Dominion Chemist (1928).

Colorado Sixteenth Annual Report of State Entomologist, Circular 47 (1925).

Connecticut Agricultural Experiment Station, Bulletins 242 (1922); 258 (1924); 272 (1925); 300 (1929); 346 (1933).

Maine Agricultural Experiment Station, Official Inspections 110 (1923); 114 (1924); 118 (1925); 122 (1926); 126 (1927); 130 (1928); 134 (1929); 138 (1930); 142 (1931); 146 (1932); 150 (1933); 154 (1934); 158 (1935).

New Jersey Agricultural Experiment Stations, Bulletins 372 (1922); 407 (1924); 424 (1925); 441 (1926); 459 (1927); 478 (1928); 485 (1929); 513 (1930); 530 (1931); 548 (1932); 556 (1933); 577 (1934); 594 (1935).

North Dakota Office of the State Food Commissioner and Chemist, Bulletins 17 (1927); 37 (1932); 42 (1934); 47 (1935).

Oregon Agricultural College Experiment Station, Circulars 64 (1925); 84 (1927); 95 (1929); 106 (1931).

U. S. Department of Agriculture, Department Bulletin 1439 (1926).

## Composition of Commercial Insecticides

### A

#### Ace-Hy

(GENERAL CHEMICAL CO., NEW YORK, N. Y.)

Guaranteed: Inert matter (water), not more than 40 percent.

Found: The preparation is an emulsion in which a cyanide, equivalent to 2.29 grams CN per 100 cc was the chief active ingredient detected. The ash, 3.58 percent, consisted chiefly of iron and copper oxides. Water and volatile matter (at 100° C), made up 77.3 percent of the material.—*Conn. Agr. Expt. Sta. Bul.* 242, 161 (1922).

#### Ace Orchard and Plant Spray

(CHEMICAL PRODUCTS CO.)

	Guaranteed	Found
Soap.....	....	20.57
Ammonium thiosulfate.....	....	3.10
Ammonium sulfate.....	....	1.65
Ammonium polysulfide and free ammonia.....	....	16.86
Free sulfur.....	....	2.22
Water.....	60.00	51.50

*Cal. Dept. Agr., Spec. Pub.* 101, 39. (1930).

#### Acid Carbohc

See Phenol.

#### Acid Hydrocyanic

See Hydrocyanic Acid.

#### Acme All Round Spray

(ACME WHITE LEAD & COLOR WORKS, BOSTON, MASS.)

Guaranteed: Lead arsenate 14.5 percent; Bordeaux mixture 85.5 percent; total active ingredients 25.5 percent (liquid content active ingredients, nicotine sulfate 40 percent).

Found: Lead arsenate 16.02 percent; water-soluble arsenic (As) 0.14 percent; nicotine sulfate (liquid) 49.59 percent; copper oxide 11.14 percent.—*Maine Agr. Expt. Sta. Official Inspections* 134, 114 (1929).

#### Acme Bait-M

(ACME WHITE LEAD & COLOR WORKS, SAN FRANCISCO, CAL.)

	Guaranteed	Found
Arsenic (As).....	1.50	1.88

*Cal. Dept. Agr., Spec. Pub.* 101, 21 (1930).

#### Acme Bean Beetle Dust

(ACME WHITE LEAD & COLOR WORKS, DETROIT, MICH.)

	Guaranteed	Found
Total arsenic, metal.....	1.90	2.27
Water-soluble arsenic, metal.....	0.30	0.11

*N. J. Agr. Expt. Sta. Bul.* 513, 9 (1930).

#### Acme Chlorinated Lime

(B. T. BABBITT, MONTEBELLO, CAL.)

	Guaranteed	Found
Available chlorine.....	24.00	15.32

*Cal. Dept. Agr., Spec. Pub.* 101, 80 (1930).

#### Acme Fish Oil Spray Soap

See Soap.

**Acme Garden Guard**

(ACME WHITE LEAD &amp; COLOR WORKS, DETROIT, MICH.)

	Guaranteed	Found
Copper . . . . .	....	1.77
Total arsenic, metal . . . . .	1.70	1.98
Water-soluble arsenic, metal . . . . .	0.25	0.50
Copper aceto-arsenite . . . . .	4.50	....
"Copper of bordo" . . . . .	0.50	....
Sulphur . . . . .	4.00	3.90

*Cal. Dept. Agr., Spec. Pub. 75, 44 (1927).***Acme London Purple**

(ACME WHITE LEAD &amp; COLOR WORKS, DETROIT, MICH.)

	Guaranteed	Found
Total arsenic, metal . . . . .	26.00	25.42
Water-soluble arsenic, metal . . . . .	0.30	0.17

*Cal. Dept. Agr., Spec. Pub. 75, 26 (1927).***Acme Nicotine Sulfate***See Nicotine Sulphate Solutions.***Acme Sheep and Cattle Dip***See Phenol Soap Solutions.***Acme Spray Soap***See Soap.***Acme 2-Way Spray***See Bordeaux Mixture—Lead Arsenate.***Acto***See Oils, Mineral.***Adams Handy Killo**

(R. B. ADAMS, MONTICELLO, MAINE)

Guaranteed: Arsenite of soda containing not less than 20 percent arsenic.  
 Found: Arsenic 21.6 percent.—*Maine Agr. Expt. Sta., Official Inspections*  
 138, 106 (1930).

**Adheso A-14 ,Nicotine Dust***See Nicotine Dusts.***Adheso Dry**

(ANSBACHER-SIEGLE CORP., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal . . . . .	5.20	5.50
Water-soluble arsenic, metal . . . . .	0.50	0.11
Copper . . . . .	7.10	6.55

*N. J. Agr. Expt. Sta., Bul. 513, 10 (1930).***Adheso 8-20 Sulfur, Lime Dust**

(ANSBACHER-SIEGLE CORP., NEW YORK, N. Y.)

	Guaranteed	Found
Sulphur . . . . .	80.00	79.85

*N. J. Agr. Expt. Sta., Bul. 530, 8 (1931).*

**Adheso 85-15 Sulphur Lead Arsenate Dust**

(ANSBACHER-SIEGLE CORP., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal . . . . .	2.90	3.98
Sulphur . . . . .	83.50	82.46

*Maine Agr. Expt. Sta., Official Inspections 150, 121 (1933).*

**Adheso 5-0 Blue Dust**

See Bordeaux Mixture.

**Adheso 5-2 Green Dust**

(ANSBACHER INSECTICIDE CO., INC., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal . . . . .	2.00	1.62
Water-soluble arsenic, metal . . . . .	0.50	0.31
Copper . . . . .	5.00	7.80

*N. J. Agr. Expt. Sta., Bul. 485, 10 (1929).*

**Adheso Green Label**

(ANSBACHER INSECTICIDE CO., INC., NEW YORK, N. Y.)

	Guaranteed	Found
Moisture . . . . .	. . . .	58.39
Total arsenic, metal . . . . .	5.50	5.56
Water-soluble arsenic, metal . . . . .	0.50	0.05
Copper . . . . .	4.00	4.15

*N. J. Agr. Expt. Sta., Bul. 459, 10 (1927).*

**Adheso Nicotine Carrier Dust**

See Nicotine Dusts.

**Adheso 9-5 Green Dust**

(ANSBACHER-SIEGLE CORP., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal . . . . .	5.00	6.25
Copper . . . . .	9.00	9.06

*Maine Agr. Expt. Sta., Official Inspections 150, 122 (1933).*

**Adheso 9-0 Blue Dust**

**Adheso 7-0 Blue Dust**

See Bordeaux Mixture.

**Adheso 7-3 Green Dust**

(ANSBACHER-SIEGLE CORP., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal . . . . .	3.00	4.69
Copper . . . . .	7.00	6.68

*Maine Agr. Expt. Sta., Official Inspections 150, 122 (1933).*

**Adheso 70-20-10**

See Ansbacher's Triangle Brand Adheso.

**Adheso 300 Mesh 80-20 Sulfur-Lime Dust**

(ANSBACHER INSECTICIDE CO., INC., NEW YORK, N. Y.)

	Guaranteed	Found
Sulphur . . . . .	80.00	76.95

*N. J. Agr. Expt. Sta., Bul. 485, 8 (1929).*

**Adheso 20-20-60 Copper Lime Arsenate Dust**

(ANSBACHER-SIEGLE CORP., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal, .....	5.00	5.22
Copper .....	7.00	7.44

*Maine Agr. Expt. Sta., Official Inspections 154, 134 (1934).*

**Adheso Yellow Label**

(ANSBACHER-SIEGLE CORP., NEW YORK, N. Y.)

	Guaranteed	Found
Water .....	.....	54.70
Copper .....	10.37	11.48

*N. J. Agr. Expt. Sta., Bul. 513, 10 (1930).*

**A D S Rat and Roach Paste**

*See Phosphorus Preparations.*

**Aero Brand Hydrocyanic Acid**

*See Hydrocyanic Acid.*

**Aero Rodent Exterminator**

*See Calcium Cyanide.*

**Afi-Tox**

*See Nicotine Soap Solutions.*

**Agricultural Sulphur Compound**

(TOYAH VALLEY SULPHUR CO., NEW ORLEANS, LA.)

Found: Sulphur 21.50 percent.—*N. J. Agr. Expt. Sta., Bul. 441, 7 (1926).*

**Agri-Pax**

(PAX MFG. CO., NEW YORK, N. Y.)

Declared: "A contact spray insecticide based on the extract of pyrethrum. Inert material water 77 percent."

Found: Chloroform extract 20.54 percent; fatty acids 18.83 percent; moisture 74.2 percent. Calculated composition: soap 21.37 percent; pyrethrum extract 1.71 percent; moisture 74.2 percent; undetermined 2.72 percent.—*Conn. Agr. Expt. Sta., Bul. 300, 210 (1929).*

**Albatross Puritol**

(GENERAL BASIC PRODUCTS CO.)

	Guaranteed	Found
Active Ingredients:	3.00	.....
Oils .....	.....	1.20
Phenols .....	.....	0.40
Inert Ingredients:		
Whiting .....	91.50	90.50
Glue .....	5.00	5.40
Volatile at 100° C. ....	0.50	1.50

*Cal. Dept. Agr., Spec. Pub. 75, 66 (1927).*

**Alcopol Oil**

**Aleph Oil**

*See Oils, Mineral.*

**Alhambra Nico-Soap**

*See Nicotine Soaps.*

**Alhambra Spray**

*See Oil Emulsions, Mineral.*

**Allen's Kilty, Paste**

(W. A. ALLEN, PITTSTOWN, N. J.)

	Guaranteed	Found
Moisture.....	.....	55.17
Total arsenic, metal.....	6.52	4.73
Water-soluble arsenic, metal.....	0.50	0.08
Copper.....	4.00	5.02

*N. J. Agr. Expt. Sta., Bul. 441, 10 (1926).***Allen's Tri-Calcium Arsenate Mixture-Kilty**

(W. A. ALLEN, PITTSTOWN, N. J.)

	Guaranteed	Found
Water.....	.....	62.22
Total arsenic, metal.....	6.52	5.53
Water-soluble arsenic, metal.....	1.00	0.06
Copper.....	4.00	4.03

*N. J. Agr. Expt. Sta., Bul. 485, 9 (1929).***All in One***See Niagara All in One and No. 6 All in One Dust.***Altair Oil***See Oils, Mineral.***Aluminum Sulfate**

(APOTHECARIES HALL CO., WATERBURY, CONN.)

*Found: Sample was nearly all water-soluble and contained only a trace of iron.—Conn. Agr. Expt. Sta., Bul. 346, 212 (1933).***American Jazz Spray***See Oil Emulsions, Mineral.***Ammonia Spray**

(BEAR AMMONIA CO., RIVERSIDE, CAL.)

*Found: Moisture 18.33 percent; sodium carbonate 63.50 percent; sodium chloride 3.20 percent; soap 12.85 percent; calcium carbonate 2.09 percent.—Cal. Dept. Agr., Spec. Pub. 51, 58 (1925).***Ammo-Nico Dust***See Nicotine Dusts.***Anabesine Sulfate, 40%**

(AMTORG TRADING CORP., NEW YORK, N. Y.)

*Found: Total nitrogen 6.29 percent; total bases as anabesine 36.39 percent.—Conn. Agr. Expt. Sta., Sample 2612.***Anaheim Spray Emulsion***See Oil Emulsions, Mineral.***Anchor Brand Hellebore***See Hellebore.***An-Fo Ant Powder**

(AN-FO MANUFACTURING CO.)

	Guaranteed	Found
Sodium fluoride.....	78.00	81.72
Pyrethrum.....	8.00	.....
Organic matter.....	.....	10.10

*Cal. Dept. Agr., Spec. Pub. 101, 78 (1930.)*



**An-Fo Disinfectant**

(AN-FO MFG. CO., OAKLAND, CAL.)

See Phenol Soap Solutions.

**An-Fo Louse Powder**

(ANIMAL FOOD CO., OAKLAND, CAL.)

Not chemically analyzed.—*Cal. Dept. Agr., Spec. Pub. 58, 48 (1925).***An-Fo Nicotine Spray**

(AN-FO MFG. CO., OAKLAND, CAL.)

See Nicotine Soaps.

**An-Fo Round Worm Capsules**

(AN-FO MFG. CO., OAKLAND, CAL.)

	Guaranteed	Found
Nicotine . . . . .	15.00	16.36
<i>Cal. Dept. Agr., Spec. Pub. 66, 26 (1926).</i>		

**An-Fo Sheep Dip**

See Phenol Soap Solutions.

**An-Fo Snail Foil**

(AN-FO MANUFACTURING CO.)

	Guaranteed	Found
Arsenic . . . . .	1.50	2.35
<i>Cal. Dept. Agr., Spec. Pub. 101, 21 (1930).</i>		

**Angelus Moth Bane**

(BRUNSWIG DRUG CO., LOS ANGELES, CAL.)

Not analyzed.—*Cal. Dept. Agr., Spec. Pub. 101, 84 (1930).***Ansbacher Ansbor**

(ANSBACHER-SIEGLE CORP., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal . . . . .	26.00	26.74
Water-soluble arsenic, metal . . . . .	1.00	1.09
Copper . . . . .	1.75	1.84
<i>Maine Agr. Expt. Sta., Official Inspections 154, 136 (1934).</i>		

**Ansbacher Bordeaux Lead Arsenate**

See Bordeaux Mixture—Lead Arsenate.

**Ansbacher Red Oxide Compound**

(ANSBACHER-SIEGLE CORP., NEW YORK, N. Y.)

	Guaranteed	Found
Copper . . . . .	21.50	22.32
<i>Maine Agr. Expt. Sta., Official Inspections 158, 137 (1935).</i>		

See Sulphur.

**Ansbacher's Triangle Brand Adheso 70-20-10  
Peach Dust Special**

(ANSBACHER-SIEGLE CORP., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal . . . . .	1.90	2.84
Water-soluble arsenic, metal . . . . .	0.50	0.35
Sulphur . . . . .	69.00	69.95
<i>N. J. Agr. Expt. Sta., Bul. 594, 8 (1935).</i>		

**Ansbacher's Triangle Brand Adheso 70-20-10,  
Sulfur, Lime & Lead Arsenate Dust**

(ANSBACHER-SIEGLE CORP., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	1.90	2.36
Water-soluble arsenic, metal.....	0.50	0.08
Sulphur.....	70.00	71.15

*N. J. Agr. Expt. Sta., Bul. 530, 10 (1931).*

**Ansbacher's Triangle Brand Adheso 300 Mesh 70-20-10,  
Sulfur, Lime, Lead Arsenate Dust, Peach Special**

(ANSBACHER-SIEGLE CORP., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	1.90	2.05
Water-soluble arsenic, metal.....	0.50	0.27
Sulphur.....	70.00	64.52

*N. J. Agr. Expt. Sta., Bul. 556, 11 (1933).*

**Ansbacher's Triangle Brand Special Bean Dust**

(ANSBACHER-SIEGLE CORP., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	4.00	5.12
Water-soluble arsenic, metal.....	0.50	0.11
Copper.....	7.00	6.94

*N. J. Agr. Expt. Sta., Bul. 577, 9 (1934).*

**Ansbor Green**

(ANSBACHER INSECTICIDE CO., INC., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	12.50	16.14
Water-soluble arsenic, metal.....	3.00	0.27
Copper.....	....	17.62

*N. J. Agr. Expt. Sta., Bul. 459, 10 (1927).*

**Ansect**

*See Key Brand Ansect.*

**Ant Buttons**

(HARRIS PRODUCTS CO., INC., MIAMI, FLA.)

Found: Sodium arsenate and sugar present.—*Conn. Agr. Expt. Sta., Sample 5975.*

**Antchek**

(ROTENONE PRODUCTS CO., EAST ORANGE, N. J.)

	Guaranteed	Found
Thallium Sulphate.....	1.25	1.07
Inert.....	98.75	....

*Maine Agr. Expt. Sta., Official Inspections 158, 139 (1935).*

**Ant Eater**

(AN-FO MFG. CO., OAKLAND, CAL.)

	Guaranteed	Found
Total arsenic.....	0.17	0.16

*Cal. Dept. Agr., Spec. Pub. 75, 24 (1927).*

**Ant Foil Ant Poison**

(AN-FO MFG. CO., OAKLAND, CAL.)

	Guaranteed	Found
Arsenious oxide . . . . .	. . . . .	0.16
Arsenic, metal . . . . .	0.10	0.12

*Cal. Dept. Agr., Spec. Pub. 66, 19 (1926).*

**Anthracine Oil Emulsion**

(THE SHERWIN-WILLIAMS CO., CLEVELAND, OHIO)

Guaranteed: Anthracene oil 75 percent; fish oil soap 3 percent; water 22 percent.

Found: Total oil 72.63 percent; water 25.08 percent; soap and undetermined 2.29 percent.—*Conn. Agr. Expt. Sta., Bul. 272, 148 (1925).*

**Anti-Ant, an Ant Exterminator**

(THE HOLMERDEN CO., STRATFORD, CONN.)

Guaranteed: Active ingredients 37.5 percent; cornstarch 12.5 percent; inert (sugar as bait) 49 percent; coloring matter 1 percent.

Found: Sugar and starch present; borax 44.69 percent.—*Maine Agr. Expt. Sta., Official Inspections 134, 114 (1929).*

**Anti-Ant, Argentine Ant Poison**

(BRUNSWIG DRUG CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Arsenic . . . . .	0.11	0.23

*Cal. Dept. Agr., Spec. Pub. 101, 20 (1930).*

**Antiseptic Sheep Dip**

*See Phenol Soap Solutions.*

**Anti-Snail**

(BRUNSWIG DRUG CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Arsenic . . . . .	1.34	1.05

*Cal. Dept. Agr., Spec. Pub. 101, 21 (1930).*

**Ant Killer**

(INTERSTATE CHEMICAL MFG. CO., JERSEY CITY, N. J.)

Guaranteed: Sodium arsenate 19 percent.

Found: Arsenic (metal) 20.47 percent.

*Maine Agr. Expt. Sta., Official Inspections 154, 136 (1934).*

**Ant Poison**

(ALDERMAN CO., INC., PASADENA, CAL.)

Found: Arsenious oxide 0.19 percent; arsenic metal 0.14 percent.—*Cal. Dept. Agr., Spec. Pub. 58, 16 (1925).*

**Ant Powder**

*See Sodium Fluoride.*

**Antrol Ant Powder**

(ANTROL LABORATORIES, INC., LOS ANGELES, CAL.)

Guaranteed: Pyrethrum fluoride 18 percent; derris root 1 percent; sodium fluoride 75 percent; sodium bifluoride 3 percent; inert 3 percent.

Found: Sodium fluoride 78.70 percent.

*Maine Agr. Expt. Sta., Official Inspections 158, 139 (1935).*

**Antrol Ant Syrup**

(ANTROL LABORATORIES, INC., LOS ANGELES, CAL.)

Guaranteed: Sodium arsenite 0.31 percent; water-soluble arsenic (metal) 0.18 percent; inert 99.69 percent.

Found: Total arsenious oxide 0.26 percent; total arsenic (metal) (all water-soluble) 0.19 percent.

*Maine Agr. Expt. Sta., Official Inspections 158, 139 (1935).*

**Antrol Argentine Ant Syrup**

(ANTROL LABORATORIES, INC., LOS ANGELES, CAL.)

	Guaranteed	Found
Arsenic, metal . . . . .	0.10	0.12
<i>Cal. Dept. Agr., Spec. Pub. 75, 24 (1927).</i>		

**Ant Syrup**

(SMALLS SEED CO., RIVERSIDE, CAL.)

	Guaranteed	Found
Arsenic, metal . . . . .	0.10	0.17
<i>Cal. Dept. Agr., Spec. Pub. 75, 24 (1927).</i>		

**Antzix**

(BONIDE CHEMICAL CO., UTICA, N. Y.)

	Guaranteed	Found
Thallium sulphate . . . . .	1.00	1.01
<i>Maine Agr. Expt. Sta., Official Inspections 158, 139 (1935).</i>		

**A-1 Dust Mixture**

See Nicotine Dusts.

**Apex Moth Crystals**

See Paradichlorbenzene.

**Aphesite**

(H. N. LECKENBY, SEATTLE, WASH.)

	Guaranteed	Found
Soap . . . . .	40.00	45.60
Essential oil . . . . .	2.00	present
<i>Oreg. Agr. Expt. Sta., Cir. 106, 21 (1931).</i>		

**Aphido**

(MILLER PRODUCTS CO., PORTLAND, OREG.)

Nicotine . . . . .	14.00	11.60
<i>Oreg. Agr. Expt. Sta., Cir. 106, 14 (1931).</i>		

**Aphid Spray**

(RADIUM SPECIALTIES MFG. CO., SAN FRANCISCO, CAL.)

Found: Light rosin oil 95.4 percent; water 4.6 percent.—*Cal. Dept. Agr., Spec. Pub. 34, 58 (1923).*

**Aphis Dust-A**

See Nicotine Dusts.

**Aphis Getter**

(WALNUT CREEK SPRAY CO., WALNUT CREEK, CAL.)

	Guaranteed	Found
Water . . . . .	92.00	69.20
<i>Cal. Dept. Agr., Spec. Pub. 66, 36 (1926).</i>		

**Aphisite**

(H. N. LECKENBY, SEATTLE, WASH.)

	Guaranteed	Found
Soap.....	48.00	43.7
Essential oil.....	2.00	present
Ammonia.....	5.00	1.6

*Oreg. Agr. Expt. Sta., Cir. 95, 19 (1929).*

**Aphistrogen**

(CHEMICAL PRODUCTS DIVISION, ROSE MFG. CO., PHILADELPHIA, PA.)

Guaranteed: C<sub>35</sub>H<sub>46</sub>O<sub>10</sub> about ¾-1 percent; "trioxymethaline" about ¾-1 percent; available nitrogen about 0.4 percent; "inert remedial substances" about 94 percent. "Aphistrogen is the active glucoside content of a vegetable substance. Aphistrogen being highly concentrated goes 60 times farther than the amount you pay for. Aphistrogen is prepared after the famous Rosenbluth formula, combined with a fertilizer as used with unprecedented success at the nationally known Rose Gardens at Wallingford, Pa."

Found: The preparation is a soap emulsion. Total nitrogen 0.14 percent; water 80.9 percent; formaldehyde recovered by steam distillation 0.05 percent.—*Conn. Agr. Expt. Sta., Bul. 300, 213 (1929).*

**Aphistrogen**

(GERMAIN SEED & PLANT CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Soap.....	....	14.16
Water.....	79.50	80.00

*Cal. Dept. Agr., Spec. Pub. 101, 68 (1930).*

**Apricot Oil**

*See Oil Emulsions, Mineral.*

**Arcoite**

(ARCOITE CHEMICAL CORP., BERKELEY, CAL.)

	Guaranteed	Found
Available chlorine.....	4.50	4.09

*Cal. Dept. Agr., Spec. Pub. 101, 80 (1930).*

**Arcol**

*See Phenol Soap Solutions.*

**Arctic Whale Oil Soap**

*See Soaps.*

**Argentine Ant Poison**

(COFFIN-REDINGTON CO., SAN FRANCISCO, CAL.)

Guaranteed: Arsenious oxide 0.20 percent; arsenic metal 0.15 percent.

Found: Arsenious oxide 0.26 percent; arsenic metal 0.20 percent; invert sugar 10.79 percent; cane sugar 17.47 percent; dextrin, etc., 11.53 percent; water 59.94 percent.—*Cal. Dept. Agr., Spec. Pub. 58, 16 (1925).*

**Argentine Ant Poison**

(FEDERAL DRUG CO., OAKLAND, CAL.)

	Guaranteed	Found
Arsenious oxide.....	....	0.11
Arsenic, metal.....	0.25	0.08

*Cal. Dept. Agr., Spec. Pub. 66, 19 (1926).*

**Argentine Ant Poison**

(C. W. HILL CHEMICAL CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Total arsenic, metal . . . . .	0.10	0.097
Water-soluble arsenic, metal . . . . .	0.10	0.097

*Cal. Dept. Agr., Spec. Pub. 34, 18 (1923).*

**Argentine Ant Poison**

(LOS ANGELES CHEMICAL CO., LOS ANGELES, CAL.)

Guaranteed: Arsenic metal 0.10 percent.  
 Found: Arsenious oxide 0.13 percent; arsenic metal 0.099 percent; invert sugar 8.64 percent; cane sugar 39.66 percent; dextrin, etc. 0.21 percent; water 51.64 percent.—*Cal. Dept. Agr., Spec. Pub. 58, 17 (1925).*

**Argentine Ant Poison**

(PHILIP & PHILIP, OAKLAND, CAL.)

	Guaranteed	Found
Arsenious oxide . . . . .	. . . .	0.16
Arsenic, metal . . . . .	0.11	0.12

*Cal. Dept. Agr., Spec. Pub. 58, 17 (1925).*

**Argentine Ant Poison**

(ROSE WATERMAN DRUG CO.)

	Guaranteed	Found
Arsenious oxide . . . . .	. . . .	0.20
Arsenic, metal . . . . .	0.20	0.15

*Cal. Dept. Agr., Spec. Pub. 66, 19 (1926).*

**Argentine Ant Poison**

(TOWNE ALLISON DRUG CO., SAN BERNARDINO, CAL.)

Found: Total arsenious oxide 0.60 percent; water-soluble arsenious oxide 0.60 percent.—*Cal. Dept. Agr., Spec. Pub. 34, 18 (1923).*

**Argentine Ant Poison**

(WEBB & SEWARD, PASADENA, CAL.)

	Guaranteed	Found
Arsenious oxide . . . . .	. . . .	0.09
Arsenic, metal . . . . .	0.20	0.07

*Cal. Dept. Agr., Spec. Pub. 58, 17 (1925).*

**Argo Ant Poison**

(BOWMAN DRUG CO.)

	Guaranteed	Found
Arsenic, metal . . . . .	0.11	0.15

*Cal. Dept. Agr., Spec. Pub. 75, 24 (1927).*

**Arleca Dust**

See Niagara Arleca Dust.

**A. R. M. Liquid Lice Killer**

(ARTHUR R. MAAS CHEMICAL CO.)

Guaranteed: Water 5.00 percent.  
 Found: Phenols 14.50 percent; coal-tar oils 84.80 percent; water 0.40 percent.—*Cal. Dept. Agr., Spec. Pub. 75, 56 (1927).*

**Arndt Insecticide Killer**

(M. H. ARNDT MFG. CO., TRENTON, N. J.)

Found: Sample is a nearly colorless mobile liquid with a blue fluorescence, neutral to litmus. Boiling-point 80-247° C. Ash 0.002 percent. No alcohol or rotenone. Probably a mixture of gasoline, decalin and a little chloroform.

*Conn. Agr. Expt. Sta.*, Sample 6392.

**Aroostook Special 40-60 Copper Lime Dust**

See Bordeaux Mixture.

**Arsenate of Calcium**

See Table I.<sup>1</sup>

**Arsenate of Lead**

See Table II.

**Arsenate of Lead and Sulphur (Home Mixture)**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

Found: Water-soluble arsenic pentoxide 0.55 percent; sample was neutral to litmus.—*Conn. Agr. Expt. Sta.*, *Bul.* 346, 213 (1933).

**Arsenate of Magnesium**

See Table III.

**Arsenate of Manganese**

See Grasselli Manganar.

**Arsenate of Sodium**

See Holmerden Weed Destroyer; Master Ant Killer.

**Arsenate of Zinc**

See Orchard Brand Basic Zinc Arsenate; Zinc Arsenate, Dry.

**Arsenic Trioxide****Arsenic, White****Arsenious Oxide**

See Ortho White Arsenic; Rough-on-Rats Poison.

**Arsenite of Sodium**

See B-E Standard Sodium Arsenite Solution; McEverlast Sodium Arsenite; Mission Sodium Arsenite Solution; Phar O Termite Spray.

**Arsenite of Zinc**

See Table IV.

**Arsenoid, Soluble**

See Watson.

**Arsokoll**

See Arsenate of Lead.

**At-Ko Brand Sheep Dip**

See Phenol Soap Solutions.

**Atlantic White Oil No. 15**

See Oils, Mineral.

**Atlas "A" Weed Killer**

(CHIPMAN CHEMICAL CO., NEW YORK, N. Y.)

Guaranteed: Sodium arsenite 45 percent.

Found: Total arsenic metal 23.67 percent; sodium arsenite ( $\text{Na}_2\text{HAsO}_3$ ) 53.64 percent.—*Conn. Agr. Expt. Sta.*, *Bul.* 272, 149 (1925).

<sup>1</sup> Tables are printed at the back of the bulletin, beginning on page 663.

**Atlas Weed Killer**

(CHIPMAN CHEMICAL ENGINEERING CO., INC., NEW YORK, N. Y.)

Found: Sodium chlorate 19.22 percent; sodium chloride 18.73 percent; water 57.59 percent.—*Cal. Dept. Agr., Spec. Pub. 75, 65 (1927).*

**Avenarius Carbolineum**

(CARBOLINEUM WOOD PRESERVING CO.)

	Guaranteed	Found
Water . . . . .	1.50	1.43
Carbon . . . . .	0.50	0.97

*Cal. Dept. Agr., Spec. Pub. 75, 65 (1927).*

**Avon Brown Neutral**

See Oils, Mineral.

**Avon Poultry Spray**

(ASSOCIATED OIL CO., MONTEREY, CAL.)

Guaranteed: Mineral oils 98.00 percent.  
 Found: Phenols 3.66 percent; tar oils 14.16 percent; mineral oils 82.00 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 70 (1930).*

**Avon Spray Emulsion**

**Avon Spray Emulsion B**

See Oil Emulsions, Mineral.

**Axfixo**

See Nicotine Dusts.

**B**

**B. A. Cartridges**

See Key Brand B. A. Cartridges.

**Bacili-Kil**

See B-K Bacili-Kil.

**Baito Earwig Bait**

(MILLER PRODUCTS CO., PORTLAND, OREG.)

	Guaranteed	Found
Arsenic, metal . . . . .	2.10	4.04

*Oreg. Agr. Expt. Sta., Cir. 106, 22 (1931).*

**Barium Carbonate**

See McClellan's Rat Ruin.

**Barium Tetrasulphide**

B. T. S. Manufacturer not stated. *Cal. Dept. Agr., Spec. Pub. 34, 34 (1923)*

Orchard Brand B. T. S. General Chemical Co., San Francisco, Cal. *Cal. Dept. Agr., Spec. Pub. 34, 34 (1923).*

Solbar. The Bayer Co., New York, N. Y. *Conn. Agr. Expt. Sta., Bul. 258, 371 (1924).*

Analyses:	Orchard Brand		Solbar.
	B.T.S.	B.T.S.	
	Found	Guaranteed	Found
WATER-SOLUBLE.			
Total . . . . .	96.10	58.95	59.58
Sulphide sulphur . . . . .	40.05	29.10	15.04
Thiosulphate . . . . .	3.50	1.42	2.55
Total sulphur . . . . .	43.80	30.52	17.59
Barium . . . . .	.....	.....	43.42
Barium sulphide . . . . .	.....	38.44	57.38
Barium thiosulphate . . . . .	.....	1-4	5.54



**Barium Tetrasulphide (Cont.)**

WATER-INSOLUBLE		Found	Guaranteed	Found	Found
Total	.....	.....	.....	40.51	.....
Silica (SiO <sub>2</sub> )	.....	.....	.....	9.77	.....
Iron and Aluminum Oxides (Fe <sub>2</sub> O <sub>3</sub> + Al <sub>2</sub> O <sub>3</sub> )	.....	.....	.....	1.98	.....
Ferrous sulphide (FeS)	.....	.....	.....	0.15	.....
Barium sulphite (BaSO <sub>3</sub> )	.....	.....	.....	1.01	.....
Barium sulphate (BaSO <sub>4</sub> )	.....	.....	.....	7.60	.....
Free sulphur (S)	.....	.....	.....	13.61	.....
Barium oxide (BaO)	.....	.....	.....	6.39	.....
Carbon dioxide, carbon, etc.	.....	.....	.....	traces	.....
Total sulphur	.....	.....	.....	.....	6.13
Total barium	.....	.....	.....	.....	9.35

**Barley, Poisoned**

See Strychnine Preparations.

**Barnard & Co.'s Reliable Water Bug and Roach Paste**

See Phosphorus Preparations.

**Barnes Emulsion**

(BARNES EMULSION CO., GARDENA, CAL.)

	Guaranteed	Found
Water	90.00	89.50
<i>Cal. Dept. Agr., Spec. Pub. 101, 84 (1930).</i>		

**Barnes Worm Emulsion**

(S. O. BARNES & SON)

	Guaranteed	Found	Guaranteed	Found
Water	50.00	94.00	94.00	93.60
<i>Cal. Dept. Agr., Spec. Pub. 75, 64 (1927).</i>				

**Barrett's Roachsault**

See Sodium Fluoride.

**Basic Copper-Lime Dust 25-75**

See Bordeaux Mixture.

**Basi-Cop.**

(SHERWIN-WILLIAMS CO., CLEVELAND, OHIO)

	Guaranteed	Found
Copper	52.00	53.06
<i>N. J. Agr. Expt. Sta., Bul. 594, 16 (1935).</i>		

**Bayer Dipdust**

Guaranteed: Hydroxymercurichlorphenol sulphate 6.00 percent; hydroxymercurinitrophenol sulphate 2.00 percent.

Found: Mercury 5.17 percent.—*Cal. Dept. Agr., Spec. Pub. 75, 62 (1927).*

**B. Bly D. Bug Dust No. 3**

(LEGGETT & BRO., INC., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal	16.00	15.95
Water-soluble arsenic, metal	2.00	1.47
Copper	.....	5.05

*N. J. Agr. Expt. Sta., Bul. 372, 21 (1922).*

**Bean Beetle Destroyer Dust or Spray**

See Arsenate of Magnesium.

**Bean Beetle Dust**

(SHERWIN-WILLIAMS CO., CLEVELAND, OHIO)  
(See also Acme, Bowker's)

	Guaranteed	Found
Total arsenic, metal . . . . .	1.90	2.08
Water-soluble arsenic, metal . . . . .	0.30	0.08

*N. J. Agr. Expt. Sta., Bul. 530, 16 (1931).*

**Bean's Bug-Go; Crude**

See Oil Emulsions, Mineral.

**Beck's Flea Powder**

(CHAS. H. BECK MFG. CO., LOS ANGELES, CAL.)

Guaranteed: Talc. 17.50 percent.  
Found: Ash 10.43 percent.  
*Cal. Dept. Agr., Spec. Pub. 75, 63 (1927).*

**Beetle Dust**

(SHERWIN-WILLIAMS CO., CLEVELAND, OHIO)

	Guaranteed	Found
Calcium arsenate . . . . .	5.00	. . . .
Sodium fluosilicate . . . . .	5.00	Fluoride present
Inert . . . . .	90.00	. . . .
Total arsenic (metal) . . . . .	1.90	2.15
Water-soluble arsenic (metal) . . . . .	0.20	0.07

*Maine Agr. Expt. Sta., Official Inspections 158, 139 (1935).*

**Beetle Mort**

See Green Cross Beetle Mort.

**Beetle Mort Bordo Arsenate Dust**

See Bordeaux Mixture—Lead Arsenate.

**Beetle Mort Special Dusting Formula**

(LUCAS KIL-TONE CO., VINELAND, N. J.)

	Guaranteed	Found
Total arsenic, metal . . . . .	6.94	7.04
Copper . . . . .	9.24	9.70

*Maine Agr. Expt. Sta., Official Inspections 142, 116 (1931).*

**Beetle Mort (with Lead)**

See Bordeaux Mixture—Lead Arsenate.

**Be-Health**

(GENERAL LABORATORIES, MADISON, WIS.)

Guaranteed: Active ingredients 8.50 percent; inert matter 91.50 percent.  
Found: (grams per 100 cc.) Available chlorine 3.77; total chlorine 3.81; sodium hypochlorite 3.96. Trace of sulphate, no calcium.—*Conn. Agr. Expt. Sta., Bul. 258, 376 (1924).*

**Bejo Orchard Spray**

See Oil Emulsions, Mineral.

**B-E Standard Sodium Arsenite Solution**

(BRIGHT ELLSWORTH CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Arsenic trioxide . . . . .	29.00	22.92

*Cal. Dept. Agr., Spec. Pub. 101, 18 (1930).*

**Big Spud Grower Brand Copper-Lime Dust**  
See Bordeaux Mixture.

**Big Spud Grower 25-25-50 Copper-Lime-Arsenate Dust**  
See Bordeaux Mixture—Lead Arsenate.

**Bill's Dandelion Weed Killer**

(W. A. MCINTYRE, BEAVER CREEK, OREG.)

	Guaranteed	Found
Total arsenic oxide.....	0.20	0.30
Hydrochloric acid.....	25.00	24.80

*Oreg. Agr. Expt. Sta., Cir. 95, 19 (1929).*

**Biro Dust**

See Niagara Biro Dust.

**B-K Bacili-Kil**

(GENERAL LABORATORIES, MADISON, WIS.)

Guaranteed: Inert matter, calcium chloride 1.71 percent; water 89.64 percent.

Found: Available chlorine 3.20 percent.

*Cal. Dept. Agr., Spec. Pub. 75, 61 (1927).*

**Black Fly Lotion**

(COOK, EVERETT & PENNELL, PORTLAND, MAINE)

Found: Sample has an oil base and contains oil of citronella.—*Maine Agr. Expt. Sta., Official Inspections 134, 114 (1929).*

**Black Leaf 50**

**Black Leaf 40**

See Nicotine Sulphate Solutions.

**Black Leaf F-2 Nicotine Dust**

See Nicotine Dusts.

**Bleaching Water**

See Wescco.

**Bleach-It**

(GILT EDGE PACKING CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Available chlorine.....	4.00	4.99

*Cal. Dept. Agr., Spec. Pub. 75, 61 (1927).*

**Blecho**

(J. B. KEIGHTLY, LOS ANGELES, CAL.)

Found: Available chlorine 5.31 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 80 (1930).*

**Blue Ribbon Orchard Spray**

See Oil Emulsions, Mineral.

**Bonide Nicotox**

(BONIDE CHEMICAL CO., INC., UTICA, N. Y.)

	Guaranteed	Found
Nicotine.....	6.00	6.43
Phenols.....	2.00	....
Inert.....	83.00	....

*Conn. Agr. Expt. Sta., Sample 7224.*

**Bonide Q. B. Dust**

(BONIDE CHEMICAL CO., INC., UTICA, N. Y.)

Guaranteed: Derris extractives 1.67 percent; azofumide 1.67 percent; inert 96.66 percent.

Found: Ether extractive matter 1.42 percent; ash 80.9 percent.—*Maine Agr. Expt. Sta., Official Inspections* 158, 139 (1935).**Borco**

See Bordeaux Mixture.

**Bordeaux and Arsenate of Lead Paste****Bordeaux Dust with Poison****Bordeaux Lead**

See Bordeaux Mixture—Lead Arsenate.

**Bordeaux Mixture**

See Table V.

**Bordeaux Mixture-Lead Arsenate**

See Table VI.

**Bordeaux-Paris Green**

(LEGGETT &amp; BRO., NEW YORK, N. Y.)

(See also Naco-Bordeaux-Paris Green)

	Guaranteed	Found
Copper oxide, CuO . . . . .	17.50	17.37
Total arsenious oxide, As <sub>2</sub> O <sub>3</sub> . . . . .	16.50	17.69
Water-soluble arsenious oxide, As <sub>2</sub> O <sub>3</sub> . . . . .	2.64	2.72

*Conn. Agr. Expt. Sta., Bul.* 242, 153 (1922).**Bordo-Lead**

See Bordeaux Mixture—Lead Arsenate.

**Bordow**

See Bordeaux Mixture.

**Borecide**

(MASON DRUG &amp; CHEMICAL CO., HANCOCK, MD.)

Found: Ash 58.14 percent; loss on ignition 41.86 percent; insoluble in boiling water 65.35 percent; melting-point of sublimate, 31.0° C. The substance had the odor of naphthalene, and the sublimate combined with picric acid, but the melting-point was nearer that of methyl naphthalene.—*Conn. Agr. Expt. Sta., Bul.* 242, 160 (1924).**Bovinal Fly Repeller**

(STANDARD OIL CO.)

Not analyzed.—*N. Dak. Bul.* 37, 121 (1932).**Bowker's Bean Beetle Dust**

(BOWKER CHEMICAL CO., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal . . . . .	5.00	5.19
Water-soluble arsenic, metal . . . . .	0.50	0.12
Copper . . . . .	6.75	6.91

*N. J. Agr. Expt. Sta., Bul.* 594, 9 (1935).**Bowker's Calrox**

See Arsenate of Calcium.

**Bowker's Dust 50-20-30**

(BOWKER CHEMICAL CO., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	7.80	8.33
Water-soluble arsenic, metal.....	0.50	0.08
Copper.....	7.00	7.61

*N. J. Agr. Expt. Sta., Bul. 594, 9 (1935).*

**Bowker's Dust 9-6**

(BOWKER CHEMICAL CO., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	6.00	7.01
Water-soluble arsenic, metal.....	0.50	0.08
Copper.....	9.00	8.71

*N. J. Agr. Expt. Sta., Bul. 594, 9 (1935).*

**Bowker's Nicotine Pyrox**

(BOWKER CHEMICAL CO., NEW YORK, N. Y.)

	Guaranteed	Found
Calcium arsenate.....	8.75	.....
Total arsenic, metal.....	3.26	3.78
Copper.....	7.00	7.25
Nicotine.....	1.60	1.62

*Maine Agr. Expt. Sta., Official Inspections 150, 154 (1933).*

**Bowker's Nicotine Sulphate 40%**

See Nicotine Sulphate Solutions.

**Bowker's 9-5 Dusting Mixture**

(BOWKER CHEMICAL CO., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	4.92	5.80
Copper.....	8.90	8.64

*Maine Agr. Expt. Sta., Official Inspections 142, 116 (1931).*

**Bowker's No. 9 Dust**

See Bordeaux Mixture.

**Bowker's Potato Dust No. 3**

(BOWKER CHEMICAL CO., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	16.30	16.81
Water-soluble arsenic, metal.....	0.75	0.43
Copper.....	10.00	10.68

*N. J. Agr. Expt. Sta., Bul. 594, 9 (1935).*

**Bowker's Pyrox without Poison**

See Bordeaux Mixture.

**Bowker's 60-20-20 Dust**

(BOWKER CHEMICAL CO., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	5.20	5.74
Water-soluble arsenic, metal.....	0.50	0.11
Copper.....	7.00	6.70

*N. J. Agr. Expt. Sta., Bul. 485, 10 (1929).*

**Bowker's Sulfox Wettable**

See Sulphur.

## *Composition of Commercial Insecticides*

### **Brewers "Snow Fluff" Agricultural Hydrated Lime for Spraying and Dusting**

(GREEN MOUNTAIN LIME CORP., NEW HAVEN JUNCTION, VT.)

	Guaranteed	Found
Calcium oxide . . . . .	70.00	70.56
Magnesium oxide . . . . .	5.00	3.31

*Maine Agr. Expt. Sta., Official Inspections 158, 139 (1935).*

### **Brininstool's Coal Tar Creosote**

(THE BRININSTOOL CO.)

Found: Oils 94.80 percent, phenols 3.90 percent, trace of water and ash, no rosin. Baumé gravity of separated oil, 17.3; percent unsulphonated oil, 24.60.—*Cal. Dept. Agr., Spec. Pub. 51. 45 (1925).*

### **B. T. Babbitt's Concentrated Lye**

(B. T. BABBITT, INC., LOS ANGELES, CAL.)

	Guaranteed	Found
Sodium hydroxide . . . . .	94.00	94.80
Sodium carbonate . . . . .	2.00	3.18

*Cal. Dept. Agr., Spec. Pub. 101, 83 (1930).*

### **Bud's Bleaching Water**

(THE BUD MANUFACTURING CO., SANTA ROSA, CAL.)

	Guaranteed	Found
Available chlorine . . . . .	5.00	5.24

*Cal. Dept. Agr., Spec. Pub. 101, 80 (1930).*

### **Bug-Ant Doom**

*See Pyrethrum.*

### **Bug Death**

(DANFORTH CHEMICAL CO., LEOMINSTER, MASS.)

	Guaranteed	Found
Zinc oxide . . . . .	47.00	54.15
Lead oxide . . . . .	5.00	14.11

*Conn. Agr. Expt. Sta., Bul. 242, 159 (1922).*

### **Bug Death**

(INTER-STATE CHEMICAL MFG. CO., JERSEY CITY, N. J.)

	Guaranteed	Found
Lead oxide . . . . .	7.00	8.20
Sulphur . . . . .	20.00	20.46
Tobacco dust . . . . .	20.00	Tobacco present
Nicotine . . . . .	0.10	. . . .
Inert . . . . .	72.90	. . . .

*Maine Agr. Expt. Sta., Official Inspections 158, 139 (1935).*

### **Bug Death Alpha**

(DANFORTH CHEMICAL CO., LEOMINSTER, MASS.)

	Guaranteed	Found
Nicotine . . . . .	0.05	trace
Sulphur . . . . .	20.00	18.20
Zinc oxide . . . . .	15.00	16.50
Lead oxide . . . . .	1.00	4.80

*Oreg. Agr. Expt. Sta., Cir. 84, 11 (1927).*

**Bug Death Aphis**

(DANFORTH CHEMICAL CO., LEOMINSTER, MASS.)

	Guaranteed	Found present
Nicotine.....	0.05	19.29
Sulphur.....	20.00	23.63
Zinc oxide.....	15.00	5.69
Lead oxide.....	1.00	

*Maine Agr. Expt. Sta., Official Inspections 110, 55 (1923).*

**Buhach Insect Powder**

See Pyrethrum.

**Buker's Sheep Dip**

See Phenol Soap Solutions.

**B-V Mosquito Cream**

(BURMA-VILA CO., MINNEAPOLIS, MINN.)

Found: Zinc stearate 38.3 percent; free fatty acid 2.04 percent; fat 5.42 percent; water 2.2 percent; glycerine and perfume 52.0 percent.—*Conn. Agr. Expt. Sta., Sample 4997.*

**By-Sul**

(GEO. H. CORSE, JR. & CO., SAN FRANCISCO, CAL.)

Two samples:

**Sample 1.**

Guaranteed: Carbon disulphide 41.00 percent; inert matter 52.00 percent.

Found: Carbon disulphide 37.98 percent; water 50.82 percent; calcium carbonate 4.06 percent; calcium polysulphide 6.06 percent.

**Sample 2.**

Guaranteed: Carbon disulphide 41.48 percent; inert matter 52.59 percent.

Found: Carbon disulphide 46.20 percent; water 46.00 percent; clay and oil 6.18 percent; calcium polysulphide none.

*Cal. Dept. Agr., Spec. Pub. 51, 60 (1925).*

**C**

**Caascu**

(HEMINGWAY & CO., INC., BOUND BROOK, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	16.00	18.23
Water-soluble arsenic, metal.....	4.00	0.12
Copper.....	.....	7.73

*N. J. Agr. Expt. Sta., Bul. 459, 11 (1927).*

**Cabot's Gypsy Moth Creosote**

(SAMUEL CABOT, INC., BOSTON, MASS.)

Guaranteed: Not more than 10 percent inert matter.

Found: Substance is composed of tarry matter like gas-house wastes. There are no oils present.

*Maine Agr. Expt. Sta., Official Inspections 114, 88 (1924).*

**Cala Argentine Ant Powder**

(MCKESSON, LANGLEY & MICHAELS CO., FRESNO, CAL.)

	Guaranteed	Found
Sodium fluoride.....	76.00	84.69
Pyrethrum.....	7.00	.....
Organic matter.....	.....	12.56

*Cal. Dept. Agr., Spec. Pub. 101, 78 (1930).*

**Calcium Arsenate**

See Arsenate of Calcium.

**Calcium Caseinate**

See Table VII and Fluxit Fixator; Ortho Spreader (Dry Form).

**Calcium Cyanide**

See Table VIII.

**Calcium Fluosilicate Compound**

(VICTOR CHEMICAL WORKS, NEW YORK, N. Y.)

Guaranteed: Calcium fluosilicate not less than 15 percent; inert matter not over 85 percent.

Found: Phosphorus pentoxide 28.37 percent; calcium oxide 21.80 percent; iron and aluminum oxides 20.60 percent; silica 11.00 percent; fluorine 11.95 percent.—*Conn. Agr. Expt. Sta., Bul. 272, 149 (1925).***Calcium Hydroxide**

See Lime, Hydrated.

**Calcium-Lime Dust 40-60**

(SHERWIN-WILLIAMS CO., CLEVELAND, OHIO)

	Guaranteed	Found
Total arsenic, metal. . . . .	10.40	10.97
Water-soluble arsenic, metal. . . . .	0.50	0.12

*N. J. Agr. Expt. Sta., Bul. 594, 16 (1935).***Calcyco Braun Gas****Calcyco Hydrocyanic Acid**

See Hydrocyanic Acid.

**California C & G Brand Bleaching Water**

(CALIFORNIA BLEACHING WATER CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Available chlorine. . . . .	4.00	5.17

*Cal. Dept. Agr., Spec. Pub. 75, 61 (1927).***California Spray**

(UNITED STATES SPRAY CO., SAN BERNARDINO, CAL.)

Guaranteed: Inert matter 65.00 percent.

Found: Oils 29.00 percent; inert matter 69.00 percent. Sodium fluoride and rosin present.

*Cal. Dept. Agr., Spec. Pub. 34, 37 (1923).***Calispray Combined Insecticide and Fungicide Dust No. 3**

See Nicotine-Sulphur Dusts.

**Calispray Complete Garden Dust No. 83**

(CALIFORNIA SPRAYER CO.)

	Guaranteed	Found
Nicotine. . . . .	1.25	0.85
Total arsenic, metal. . . . .	1.76	1.69
Water-soluble arsenic, metal. . . . .	0.50	0.26
Lead oxide. . . . .	.....	8.17
Sulphur. . . . .	50.00	46.95

*Cal. Dept. Agr., Spec. Pub. 75, 38 (1927).***Calispray Dust No. 86**

See Bordeaux Mixture-Lead Arsenate.



**Calispray Dust No. 42**

See Arsenate of Calcium.

**Calispray Dust No. 1****Calispray Dust No. 2**

See Nicotine-Sulphur Dusts.

**Calispray Insecticide Dust No. 11****Calispray Insecticide Dust No. 12****Calispray Insecticide Dust No. 15**

See Nicotine Dusts.

**Calispray Insecticide Dust No. 81**

(CALIFORNIA SPRAYER CO.)

	Guaranteed	Found	Guaranteed	Found
Nicotine . . . . .	2.00	2.21	2.00	2.28
Total arsenic, metal . . . . .	3.50	3.39	3.80	4.06
Water-soluble arsenic, metal . . . . .	0.50	0.18	0.50	0.29
Lead oxide . . . . .	....	13.87	....	13.02

*Cal. Dept. Agr., Spec. Pub. 75, 38 (1927).***Calispray Nico-Dust No. 82**

(CALIFORNIA SPRAYER CO.)

	Guaranteed	Found
Nicotine . . . . .	2.50	1.22
Total arsenic, metal . . . . .	3.50	4.30
Water-soluble arsenic, metal . . . . .	0.50	0.46
Lead oxide . . . . .	....	12.76
Copper . . . . .	5.00	4.85

*Cal. Dept. Agr., Spec. Pub. 75, 38 (1927).***Calispray No. 3—10% Dust**

See Nicotine-Sulphur Dusts.

**Calispray No. 15—7½% Dust****Calispray No. 16—10% Dust**

See Nicotine Dusts.

**Calispray No. 65**

(CALIFORNIA SPRAYER CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Copper . . . . .	7.00	7.69

*Cal. Dept. Agr., Spec. Pub. 101, 40 (1930).***Calispray No. 81 L—6 Dust**

(CALIFORNIA SPRAYER CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Nicotine . . . . .	2.00	2.45
Total arsenic . . . . .	3.80	4.50
Water-soluble arsenic . . . . .	0.50	0.30

*Cal. Dept. Agr., Spec. Pub. 101, 33 (1930).***Calispray No. 82**

(CALIFORNIA SPRAYER CO., SANTA PAULA, CAL.)

	Guaranteed	Found
Nicotine . . . . .	2.70	2.93
Copper . . . . .	7.00	7.03
Total arsenic . . . . .	3.80	3.76
Water-soluble arsenic . . . . .	0.50	0.12

*Cal. Dept. Agr., Spec. Pub. 101, 33 (1930).*

**Calispray Tomato Dust No. 86**

See Bordeaux Mixture-Lead Arsenate.

**Cal-Mo-Sul.**

See Lime-Sulphur Solutions.

**Calox**

See Oil Emulsions, Mineral.

**Calpest Garden Dust**

See Nicotine Dusts.

**Calpest Sow Bug Killer**

(CALIFORNIA PEST CONTROL CO., BURLINGAME, CAL.)

Guaranteed: Copper aceto-arsenite, 8.00 percent.

Found: Arsenious oxide 11.04 percent.

Cal. Dept. Agr., Spec. Pub. 75, 26 (1927).

**Calpest Summer Spray**

See Oil Emulsions, Mineral.

**Calpest Weed Killer**

(CALIFORNIA PEST CONTROL CO., BURLINGAME, CAL.)

	Guaranteed	Found
Arsenious oxide.....	30.00	31.30

Cal. Dept. Agr., Spec. Pub. 75, 25 (1927).

**Calpest Whale Oil Soap**

See Soaps.

**Calpro Ant Syrup**

(THE CALPRO SALES CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Arsenic, metal.....	0.10	0.22

Cal. Dept. Agr., Spec. Pub. 75, 24 (1927).

**Cal-Rite**

**Calrox**

See Arsenate of Calcium.

**Calso**

(STANDARD CHEMICAL WORKS, READING, PA.)

	Guaranteed	Found
Total arsenic, metal.....	12.78	15.78
Water-soluble arsenic, metal.....	0.75	0.29
Copper.....	5.00	7.31

N. J. Agr. Expt. Sta., Bul. 372, 24 (1922).

**Cal-Sy**

See Calcium Cyanide.

**Cann's Ant Exterminator**

(ARTHUR CANN CO., SAN JOSE, CAL.)

Guaranteed: Inert matter 10.00 percent.

Found: Phenols 12.20 percent; inert matter 9.60 percent. Rosin present.

Cal. Dept. Agr., Spec. Pub. 34, 36 (1923).

**Cann's Canco**

See Phenol Soap Solutions.

**Cann's Carco**

(ARTHUR CANN CO., SAN JOSE, CAL.)

Found: Phenols 7.30 percent. Rosin present.  
*Cal. Dept. Agr., Spec. Pub. 34, 36 (1923)*

**Capital Sheep Dip and Cattle Wash**

See Phenol Soap Solutions.

**Capital Squirrel Poison**

See Strychnine Preparations.

**Carbo**

See Copper Carbonate.

**Carbola**

(CARBOLA CHEMICAL CO., LOS ANGELES, CAL.)

Found: Phenols 1.60 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 70 (1930)*

**Carboleine, Pratt's**

See Oil Emulsions, Mineral.

**Carbolic Acid**

See Phenol.

**Carbolicide**

See Hockwald.

**Carbolineum**

See Avenarius Carbolineum.

**Carbon Disulphide**

See Table IX.

**Carbon Disulphide Emulsion**

(I. P. THOMAS &amp; SON CO., PHILADELPHIA, PA.)

Found: Carbon Disulphide 68.62 percent.  
*Conn. Agr. Expt. Sta., Bul. 300, 238 (1929).*

**Carbo-White Disinfectant**

(R. L. STEVENS BROKERAGE CO., SAN FRANCISCO, CAL.)

Found: Phenols 1.40 percent; organic matter, partly glue and water, 6.50 percent; mineral matter, mostly calcium carbonate, 92.10 percent.  
*Cal. Dept. Agr., Spec. Pub. 51, 58 (1925).*

**Carco**

(SUNSET SALES CO., TACOMA, WASH.)

(See also Cann's Carco.)

Claimed phenols, soap and hydrocarbons present.  
*Oreg. Agr. Expt. Sta., Cir. 64, 15 (1925).*

**Carco Natholeum Dip**

See Phenol Soap Solutions.

**Cartholineum**

See McClellan's Cartholineum.

**Caseinate Emulsion**

See Oil Emulsions, Mineral.

**Caustic Soda Arctic Whale Oil Soap**

See Soaps.

**Cearmist**

(THE CEARMIST CO., PROVIDENCE, R. I.)

Guaranteed: Contains coal oil, oil mirbane, phenol acid, volatile and essential oils.

Found: Kerosene and phenol present.—*Maine Agr. Expt. Sta., Official Inspections* 134, 114 (1929).**Cedar Blocks**

See Paradichlorbenzene.

**“Cee-Pee-Dee” Carbolized Petroleum Distillate**

See Oil Emulsions, Mineral.

**Cenco Superfine Sulphur Dust 85-15**

(CENTRAL CHEMICAL CO., BALTIMORE, MD.)

	Guaranteed	Found
Total arsenic (metal) . . . . .	2.73	3.26
Sulphur . . . . .	79.00	79.60

*Maine Agr. Expt. Sta., Official Inspections* 150, 121 (1933).

**Cenco Superfine Sulphur Dust 90-10**

(CENTRAL CHEMICAL CO., BALTIMORE, MD.)

	Guaranteed	Found
Total arsenic (metal) . . . . .	1.75	2.41
Sulphur . . . . .	84.00	84.76

*Maine Agr. Expt. Sta., Official Inspections* 150, 121 (1933).

**Cenol Ant Destroyer**

(CENTRAL CITY CHEMICAL CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Sodium fluoride . . . . .	25.00	30.82
Ash . . . . .	....	1.00

*Cal. Dept. Agr., Spec. Pub.* 75, 63 (1927).

**Cenol Argentine Ant Poison**

(CENTRAL CITY CHEMICAL CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Arsenic, metal . . . . .	0.11	0.17

*Cal. Dept. Agr., Spec. Pub.* 75, 24 (1927).

**Ceresan Dust**

(BAYER SEMESAN CO.)

Guaranteed: Ethyl mercury chloride 1.60 percent.

Found: Mercury 2.08 percent.—*Cal. Dept. Agr., Spec. Pub.* 101, 82 (1930).**Cespi Poisoned Barley****Cespi Poisoned Wheat**

See Strychnine Preparations.

**Cespi Rat Poison**

(SCOTT &amp; GILBERT CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Barium carbonate . . . . .	95.00	98.06

*Cal. Dept. Agr., Spec. Pub.* 75, 66 (1927).

**Champ D Beetle Dust**

(FARMERS SEED & SUPPLY STORE, BRIDGETON, N. J.)

	Guaranteed	Found
Total arsenic, metal. . . . .	6.00	7.30
Water-soluble arsenic, metal. . . . .	0.07	0.12
Copper. . . . .	7.00	6.59

*N. J. Agr. Expt. Sta., Bul. 594, 11 (1935).*

**Chemco Insect & Germ Destroyer**

See Oils, Mineral.

**Chipman Brand C 1110 Dust**

(CHIPMAN CHEMICAL CO., INC., BOUND BROOK, N. J.)

	Guaranteed	Found
Total arsenic, metal. . . . .	10.40	10.88
Water-soluble arsenic, metal. . . . .	0.20	0.08

*N. J. Agr. Expt. Sta., Bul. 594, 10 (1935).*

**Chipman Brand Copper Hydro 40**

(CHIPMAN CHEMICAL CO., INC., BOUND BROOK, N. J.)

	Guaranteed	Found
Copper. . . . .	26.00	27.55

*N. J. Agr. Expt. Sta., Bul. 594, 11 (1935).*

**Chipman Brand Copper-Lime Dust C 80**

(CHIPMAN CHEMICAL ENGINEERING CO., INC., BOUND BROOK, N. J.)

	Guaranteed	Found
Total arsenic, metal. . . . .	6.25	6.70
Water-soluble arsenic, metal. . . . .	0.12	0.32
Copper. . . . .	7.00	8.05

*N. J. Agr. Expt. Sta., Bul. 548, 11 (1932).*

**Chipman Brand Copper-Lime Dust C 70**

(CHIPMAN CHEMICAL CO., INC., BOUND BROOK, N. J.)

	Guaranteed	Found
Total arsenic, metal. . . . .	5.00	5.34
Water-soluble arsenic, metal. . . . .	0.10	0.08
Copper. . . . .	7.00	7.54

*N. J. Agr. Expt. Sta., Bul. 594, 10 (1935).*

**Chipman Brand Copper-Lime-Dust C 30**

See Bordeaux Mixture.

**Chipman Brand Dry Powdered Magnesium Arsenate**

See Arsenate of Magnesium.

**Chipman Brand Liquid Nicotine Sulphate**

See Nicotine-Sulphate Solution.

**Chlorafectant**

(AMERICAN OIL CO., NEW YORK)

	Guaranteed	Found
Sodium hypochlorite. . . . .	4.00	3.55

*Conn. Agr. Expt. Sta., Bul. 300, 240 (1929).*

**Chloride of Lime**

(GREAT WESTERN ELECTRO CHEMICAL CO.)

	Guaranteed	Found
Available chlorine. . . . .	30.00	35.26

*Cal. Dept. Agr., Spec. Pub. 51, 53 (1925).*

## Composition of Commercial Insecticides

### Chloride of Lime

(WESTERN WHOLESALE DRUG CO.)

Found: Available chlorine 34.30 percent.—*Cal. Dept. Agr., Spec. Pub. 51, 53 (1925).*

### Chloride of Lime

See also Acme Chlorinated Lime; Sinclair Chieftain Brand Chlorinated Lime.

### Chlorinated Lime

See Chloride of Lime.

### Chlor-o-Sol

(CHICKEN PHARMACY, PETALUMA, CAL.)

Found: Available chlorine 3.92 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 80 (1930).*

### Cidol Roach Powder

(WEST DISINFECTING CO., NEW YORK, N. Y.)

See Sodium Fluoride.

### Citro-Mulsion

See Oil Emulsions, Mineral.

### Citrospray

(CITROSPRAY CHEMICAL CO., LTD., LOS ANGELES, CAL.)

	Guaranteed	Found
Total arsenic, metal . . . . .	4.50	4.31
Water-soluble arsenic, metal . . . . .	1.00	1.48
Lead oxide . . . . .	12.50	12.89
Sulphur . . . . .	20.00	19.17
Sodium oxide . . . . .	13.00	.....
Sodium carbonate . . . . .	.....	27.56
Sodium oleate . . . . .	16.50	8.20
Sodium phosphate . . . . .	10.00	7.16
Water . . . . .	.....	19.58
Inert matter . . . . .	23.50	.....

*Cal. Dept. Agr., Spec. Pub. 58, 19 (1925).*

### Citrus Spray

See Oil Emulsions, Mineral.

### Citrus Washing Powder

See Soaps.

### Clay

(COLLODITE MFG. CO., LOS ANGELES, CAL.)

The clay used in the manufacture of "Collodite" sprays.

Found: Water 9.60 percent; silica 60.90 percent; aluminum oxide 19.77 percent; ferric oxide 1.15 percent; calcium oxide 0.22 percent; magnesium oxide 0.57 percent; sulphur trioxide 0.22 percent; sodium and potassium oxides 0.77 percent; water of constitution 6.80 percent.

*Cal. Dept. Agr., Spec. Pub. 34, 61 (1923).*

### Clensel

See Soaps.

**Climax Lawn Sand**

(STUMPF &amp; WALTER CO., NEW YORK, N. Y.)

Found: Silica 73.24 percent; ferrous oxide 4.05 percent; calcium oxide 1.18 percent; magnesium oxide 0.18 percent; sulphur trioxide 10.77 percent; ammonia 3.21 percent; pH=5.16.

## Estimated Composition:

Ferrous sulphate (FeSO <sub>4</sub> · 7 H <sub>2</sub> O).....	11.22
Ammonium sulphate [(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> ].....	12.45
Ferrous oxide (FeO).....	1.16
Calcium carbonate (CaCO <sub>3</sub> ).....	2.11
Magnesium carbonate (MgCO <sub>3</sub> ).....	0.38
Silica (SiO <sub>2</sub> ).....	73.24

*Conn. Agr. Expt. Sta., Bul. 346, 220 (1933).***Clipper Brand Oil Emulsion**

See Oil Emulsions, Mineral.

**Clipper Brand Original Fish Oil Soap Flakes**

See Soaps.

**C L O**

(CLOR-A-CLEAN CHEMICAL CO., NORWICH, CONN.)

Guaranteed: Sodium hypochlorite solution. Active ingredient 0.12; inert ingredient 0.88.

Found: Available chlorine 9.69 percent; sodium hypochlorite 10.18 percent.—*Conn. Agr. Expt. Sta., Sample 9323.*

**Cloros Dry Bordo 9%****Cloros Dry Bordo 12%****Cloros 12¾%**

See Bordeaux Mixture.

**Clorox Disinfectant**

See Concentrated Clorox Disinfectant.

**Clorox Liquid Cleaning Compound**

(CLOROX CHEMICAL CORPORATION, OAKLAND, CAL.)

	Guaranteed	Found
Available chlorine.....	4.50	5.50

*Cal. Dept. Agr., Spec. Pub. 75, 61 (1927).*

**Clumina**

(L. S. B. A. I., ROME, ITALY)

Found: Free chlorine 0.004 percent; total chlorine 1.08 percent.

*Cal. Dept. Agr., Spec. Pub. 66, 35 (1926).***C. N.**

See Coro Noleum.

**Coal Tar Insecticide Oil**

(SCOTT &amp; GILBERT CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Phenols.....	40.00	39.00
Coal-tar oils.....	55.00	59.30
Water.....	2.00	1.60

*Cal. Dept. Agr., Spec. Pub. 75, 56 (1927).***Collodite Arsenical Spray**

(COLLODITE SPRAY MFG. CO., LOS ANGELES, CAL.)

Found: Total arsenic oxide 8.87 percent; water-soluble arsenic oxide 1.89 percent. Contains calcium arsenate.

*Cal. Dept. Agr., Spec. Pub. 34, 61 (1923).*

**Collodite Copper Spray**

(COLLODITE MFG. CO., LOS ANGELES, CAL.)

Found: Copper 5.26 percent.  
*Cal. Dept. Agr., Spec. Pub. 34, 62 (1923).*

**Collodite Nicotine Spray**

(COLLODITE MFG. CO., LOS ANGELES, CAL.)

Found: Nicotine 2.93 percent; sodium carbonate 37.10 percent.  
*Cal. Dept. Agr., Spec. Pub. 34, 62 (1923).*

**Collodite Rosin Paste**

(COLLODITE MFG. CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Water.....	36.00	29.40

*Cal. Dept. Agr., Spec. Pub. 58, 46 (1925).*

**Collodite Scale Spray**

(COLLODITE MFG. CO., LOS ANGELES, CAL.)

Found: Sodium carbonate 28.19 percent; soap 4.50 percent; sulphur 2.16 percent.  
*Cal. Dept. Agr., Spec. Pub. 34, 61 (1923).*

**Collodite Sulfur Spray**

(COLLODITE MFG. CO., LOS ANGELES, CAL.)

Found: Sulphur 25.44 percent; soda ash large.  
*Cal. Dept. Agr., Spec. Pub. 34, 26 (1923).*

**Common Sense Rat Exterminator**

*See Phosphorus Preparations.*

**Composal**

*See Phenol Soap Solutions.*

**Concentrated Clorox Disinfectant**

(CLOROX CHEMICAL CO., OAKLAND, CAL.)

	Guaranteed	Found
Available chlorine.....	.....	5.04
Sodium hypochlorite.....	6.50	5.29
Inert.....	93.50	....

*Conn. Agr. Expt. Sta., Sample 7536.*

**Condensed Rosin Spray**

*See Soap.*

**Conkey's Mite Liquid**

(G. E. CONKEY CO., LONG BEACH, CAL.)

Guaranteed: Water 2.00 percent.  
 Found: Phenols 1.46 percent; tar oils 65.66 percent; mineral oils 32.00 percent; water 0.05 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 70 (1930).*

**Conkey's Noxicide**

*See Phenol Soap Solutions.*

**Conkey's Poultry Worm Remedy**

(THE G. E. CONKEY CO., CLEVELAND, OHIO)

Guaranteed: Pelletierine 0.200 percent; arecoline 0.020 percent; nicotine 0.100 percent; oil of chenopodium 0.120 percent.  
 Found: Nicotine 0.22 percent.  
*Cal. Dept. Agr., Spec. Pub. 75, 65 (1927).*



**Contact No. 1**

(THE GRASSELLI CHEMICAL CO., INC., CLEVELAND, OHIO)

Guaranteed: No nicotine, pyrethrum or derris.

Found: Sample is a high-boiling organic thiocyanate containing 3.39 per cent ammonium oleate as emulsifier.—*Conn. Agr. Expt. Sta.*, Sample 5467.**Co-Op Brand Spray Emulsion Medium**

See Oil Emulsions, Mineral.

**Cooper's Sheep Dipping Powder**

(S. COOPER &amp; NEPHEWS, CHICAGO, ILL.)

	Guaranteed	Found
Total arsenic, metal. . . . .	16.75	14.00
Water-soluble arsenic, metal. . . . .	17.48	14.18

*Maine Agr. Expt. Sta., Official Inspections 114, 83 (1924).*

**Copodust**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Copper sulphate. . . . .	14.00	12.00

*Oreg. Agr. Expt. Sta., Cir. 64, 11 (1925).*

**Coposil**

(CALIFORNIA SPRAY CHEMICAL CORP., BERKELEY, CAL.)

	Guaranteed	Found
Copper. . . . .	20.00	21.49
Zinc. . . . .	4.00	6.30

*N. J. Agr. Expt. Sta., Bul. 577, 10 (1934).*

**Copotex**

See Niagara Copotex.

**Copper Arsenic Dust**

See G. &amp; J. Brand Copper Arsenic Dust.

**Copper-Calcium Arsenate Dust, 13-8-79**

(DOSCH CHEMICAL CO., LOUISVILLE, KY.)

	Guaranteed	Found
Total arsenic oxide. . . . .	3.00	1.39
Water-soluble arsenic, metal. . . . .	0.50	...
Copper. . . . .	4.40	5.20

*Conn. Agr. Expt. Sta., Bul. 242, 152 (1925).*

**Copper-Calcium-Lime Dust 20-25-55**

(INTERSTATE CHEMICAL MFG. CO., JERSEY CITY, N. J.)

	Guaranteed	Found
Total arsenic, metal. . . . .	6.50	6.89
Water-soluble arsenic, metal. . . . .	0.50	0.23
Copper. . . . .	7.00	7.49

*N. J. Agr. Expt. Sta., Bul. 577, 12 (1934)*

**Copper Carbonate**

See Table X

**Copper Dust**

See Bordeaux Mixture

**Copper Fluoride**

See Cupric Fluoride

**Copper Lime Calcium Arsenate Dust**

See Green Cross Copper Lime Calcium Arsenate Dust.

**Copper Lime Dust**

See Bordeaux Mixture

**Copper Resinate**

(This was an experimental preparation made by Mr. Walden of the Analytical Laboratory of the Connecticut Agricultural Experiment Station).

Found: Copper 37.44 percent.—*Conn. Agr. Expt. Sta., Bul. 346, 220 (1933).*

**Copper Sulphate**

See Table XI.

**Coreco Argentine Ant Poison**

(COFFIN-REDINGTON CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Arsenic, metal. . . . .	0.15	0.21

*Cal. Dept. Agr., Spec. Pub. 75, 24 (1927).*

**Corona Calsenate**

See Arsenate of Calcium.

**Coro Natholeum Dip**

(WEST DISINFECTING CO., SAN FRANCISCO, CAL.)

Found: Phenols 9.00 percent; water 11.20 percent.

*Cal. Dept. Agr., Spec. Pub. 51, 45 (1925).*

**Coro Noleum and C. N. Disinfectant**

(WEST DISINFECTING CO., SAN FRANCISCO, CAL.)

Found: Phenols 28.00 percent; water 8.80 percent.

*Cal. Dept. Agr., Spec. Pub. 51, 44 (1925).*

**Corrosive Sublimate Merck**

(MERCK & CO., INC., RAHWAY, N. J.)

Found: Sample is mercuric chloride containing traces of iron, calcium and copper.—*Conn. Agr. Expt. Sta., Sample 2364.*

**Cot Oil**

See Oil Emulsions, Mineral.

**Cotton, Impregnated**

(MANUFACTURER UNKNOWN)

Sample was a piece of cotton saturated with a white crystalline material, having a faint fatty odor, apparently mostly organic, and containing no arsenic or heavy metals. This cotton was to be placed in a cut in the bark of a spruce tree to kill corn-borers by its radioactivity. Test with an electroscope showed no radioactivity.—*Conn. Agr. Expt. Sta., Bul. 346, 222 (1933).*

**Coulson's Poultry Spray**

See Oil Emulsions, Mineral.

**County Farm Bureau Mixture****County Squirrel Poison (Barley)**

See Strychnine Preparations.

**C. P. Lice and Mite Liquid**

See Lime-Sulphur.

**C. P. Lice and Mite Tablets**

(CHICKEN PHARMACY, PETALUMA, CAL.)

Found: Calcium sulphide 16.13 percent; silica 7.38 percent; iron and aluminum oxides 0.14 percent; gypsum 6.47 percent; sugar 57.80 percent; starch 11.63 percent.

*Cal. Dept. Agr., Spec. Pub. 51, 11 (1925).***Edward I. Creeley's Insect Powder**

(ARBURUA &amp; MCINNES, SAN FRANCISCO, CAL.)

	Guaranteed	Found
Nicotine.....	0.002	0.04
Naphthalene.....	3.00	3.20
Sulphur.....	5.00	5.60
Phenols.....	1.00	0.40
Pyrethrum.....	6.00	....

*Cal. Dept. Agr., Spec. Pub. 75, 40 (1927).***Creocide**

(BRAUN-KNECHT-HEIMANN CO.)

Found: Phenols 11.66 percent; soap 8.60 percent; non-mineral oils 24.24 percent; mineral oils 48.94 percent; water 5.12 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 72 (1930).*

**Creo Fenol Sheep Dip***See Phenol Soap Solutions.***Creol Dip***See Phenol Soap Solutions.***Creolineum**

(H. S. FAWCETT, RIVERSIDE, CAL.)

Found: Light oils 17.10 percent; medium oils 27.20 percent; heavy oils 49.00 percent; total oils 93.30 percent; phenols 2.90 percent; inert matter 3.80 percent.

*Cal. Dept. Agr., Spec. Pub. 34, 39 (1923).***Creolineum Wood Preserver and Triple X Creolineum**

(WESTERN WOOD PRESERVING CO., LOS ANGELES, CAL.)

	Guaranteed	Found	Guaranteed	Found
Coal-Tar distillate.....	70.00	78.90	60.00	66.20
Phenols.....	....	0.84	....	1.20
Water.....	....	trace	....	trace

*Cal. Dept. Agr., Spec. Pub. 101, 86 (1930).***Creosanthol***See Phenol Soap Solutions.***Creosote***See Brininstool.***Creosote Oil**

(AN-FO MFG. CO., OAKLAND, CAL.)

	Guaranteed	Found
Phenols.....	25.00	26.70
Coal-tar oils.....	....	72.10
Water.....	10.00	1.20

*Cal. Dept. Agr., Spec. Pub. 75, 56 (1927).*

## Composition of Commercial Insecticides

### Cresol

(WESTERN WHOLESALE DRUG CO., LOS ANGELES, CAL.)

Found: Phenols 45.30 percent; water 21.80 percent.

*Cal. Dept. Agr., Spec. Pub.* 51, 43 (1925).

### Cresolis

#### Cresolite Sheep Dip

#### Crespolin

See Phenol Soap Solutions.

#### Crestall Dip

(BAIRD & MCGUIRE, HOLBROOK, MASS.)

Found: Phenols 51.90 percent; water 12.40 percent.

*Cal. Dept. Agr., Spec. Pub.* 51, 43 (1925).

### Cresylic Acid, Pure

(PURITY CHEMICAL PRODUCTS CO., SANTA ROSA, CAL.)

	Guaranteed	Found
Phenols.....	98.00	96.85
Water.....	2.00	3.20

*Cal. Dept. Agr., Spec. Pub.* 75, 56 (1927).

### Cresy-Lol

#### Cresy-Lol-Dip

See Phenol Soap Solutions.

### Crude Oil

See Oils, Mineral.

### Crude Oil Emulsion

See Oil Emulsions, Mineral.

### Cryolite, Synthetic

See Synthetic Cryolite.

### Cubor Dust

(CHIPMAN CHEMICAL CO., BOUND BROOK, N. J.)

Guaranteed: Rotenone 1 percent; tobacco dust 25 percent; balance clay dust.

Found: Rotenone 0.77 percent; nicotine 0.33 percent; total ash 57.81 percent; acid-insoluble ash 35.01 percent; silica 30.20 percent.—*Conn. Agr. Expt. Sta.*, Samples 2707, 2793, 2856.

### Cub Sheep Dip

See Phenol Soap Solutions.

### Cupric Fluoride C. P.

(EIMER & AMEND, NEW YORK, N. Y.)

Found: Solubility 1.57 grams  $\text{CuF}_2$  per 100 cc at 21° C.—*Conn. Agr. Expt. Sta.*, Sample 4227.

### Cyanide-Chloride Marl Dust Mixture

(J. S. MUNROE, SAN JOSE, CAL.)

Found: Pounds per ton: sodium cyanide, 4.24; sodium chloride 4.7.

*Cal. Dept. Agr., Spec. Pub.* 34, 57 (1923).

**Cyanogas—A**  
**Cyanogas A—Dust**  
**Cyanogas Calcium Cyanide (Crude) A—Dust**  
**Cyanogas Granular**

See Calcium Cyanide.

**D**

**D. C. Dust No. 3**

See Niagara D. C. Dust No. 3.

**Dead Shot Squirrel and Gopher Killer**

See Strychnine Preparations.

**Dead Stuck for Moths**

(THE PENNSYLVANIA CHEMICAL MFG. CO., PHILADELPHIA, PA.)

Guaranteed: 100 percent active.

Found: The preparation is a petroleum product.—*Maine Agr. Expt. Sta., Official Inspections* 134, 119 (1929).

**Dee-Kay Dandelion Killer**

(THE WEED CONTROL CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Arsenic chloride . . . . .	1.00	1.45
<i>Cal. Dept. Agr., Spec. Pub. 101, 18 (1930).</i>		

**D 18 Dust Mixture**

See Niagara D 18 Dust Mixture.

**De Lapp's Improved Lice Powder**

(W. C. DE LAPP)

	Guaranteed	Found
Nicotine . . . . .	0.10	0.11
Naphthalene . . . . .	3.00	1.02
Sulphur . . . . .	15.00	12.40
Phenols . . . . .	0.50	0.60
Hydrocarbons . . . . .	7.00	4.20
Sodium Fluoride . . . . .	7.00	3.44
<i>Cal. Dept. Agr., Spec. Pub. 75, 40 (1927).</i>		

**Del Monte Bleaching Fluid**

(DEL MONTE BLEACHING FLUID CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Available chlorine . . . . .	5.00	4.82
<i>Cal. Dept. Agr., Spec. Pub. 75, 61 (1927).</i>		

**Del Monte Heavy**

**Del Monte Light Medium**

**Del Monte Medium**

See Oil Emulsions, Mineral.

**Delousing Grease**

(PETALUMA AVIAN PATHOLOGY LABORATORY, PETALUMA, CAL.)

	Guaranteed	Found
Sodium fluoride . . . . .	50.00	55.93
<i>Cal. Dept. Agr., Spec. Pub. 75, 62 (1927)</i>		

**Dendrol**

**Dendrol Dormant Spray Oil**

See Oil Emulsions, Mineral.

**Derrisol**

(WILLIAM COOPER & NEPHEWS, INC., CHICAGO, ILL.)

Guaranteed: Derris extract 5 percent; fatty acid 50 percent; inert matter 45 percent.

Found: Non-volatile chloroform extract 60.45 percent; water 18 percent; ash 8.08 percent; combined fatty acids (calculated from alkalinity of soluble ash) 0.62 percent. The fatty acids if present must be present in the free form and not as soap.

Conn. Agr. Expt. Sta., Bul. 300, 248 (1929).

**Derris Root**

(MANUFACTURER UNKNOWN)

Found: Moisture 6.48 percent; ether extract 8.79 percent; methoxyl content 14.90 percent; alcohol extract after ether extraction 14.25 percent; passing 20 mesh, 100 percent; 40 mesh, 100 percent; 60 mesh, 91 percent; 80 mesh, 79 percent; 100 mesh, 72 percent.

Canada Dept. Agr., Div. Chem., Rept. Dominion Chemist (1928).

**Destroyer, Argentine Ant Syrup**

(TOWNE-ALLISON DRUG CO., SAN BERNARDINO, CAL.)

Found: Arsenious oxide 0.11 percent; total arsenic, metal 0.083 percent; invert sugar 32.10 percent; cane sugar 20.86 percent; water 47.25 percent.

Cal. Dept. Agr., Spec. Pub. 58, 17 (1925).

**Destroxol**

(PARAGON CHEMICAL CO.)

	Guaranteed	Found
Nicotine.....	12.00	18.54
Sodium cyanide.....	8.00	15.67
Carbolic acid.....	2.00	2.39
Wood creosote oils.....	20.00	17.27
Water.....	....	27.36

Cal. Dept. Agr., Spec. Pub. 75, 42 (1927).

**Destroxol Emulsion**

(DESTROXOL CORPORATION)

	Guaran- teed	Found	Guaran- teed	Found	Guaran- teed	Found	Guaran- teed	Found
Oils by volume...	76.30	79.37	76.30	77.72	75.00	75.73	20.00	23.85
Phenols.....	3.00	3.37	6.00	2.86	7.50	10.00	2.00	2.40
Nicotine.....	1.00	1.60	1.00	1.55	0.80	1.39	12.00	17.96
Sodium cyanide..	1.00	1.29	1.20	0.80	1.20	0.32	8.00	15.28
Water.....	....	7.69	....	8.40	....	4.30	....	28.83

Cal. Dept. Agr., Spec. Pub. 101, 39 (1930).

**Dethol Fly Spray**

(DETHOL MFG. CO., RICHMOND, VA.)

Not analyzed.

Cal. Dept. Agr., Spec. Pub. 58, 48 (1925).

**Devil's Dust**

(WESTERN WHOLESALE DRUG CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Nicotine . . . . .	0.07	0.26
Sulfur . . . . .	25.00	27.00
Naphthalene . . . . .	....	11.48
Hydrocarbons . . . . .	10.00	....

*Cal. Dept. Agr., Spec. Pub. 101, 35 (1930).*

**Dichloricide**

*See Paradichlorbenzene.*

**Di-Fli Home Spray**

*See Oils, Mineral.*

**Diluted Cresylic Acid Poultry House Spray**

(G. P. MCNEAR CO., PETALUMA CAL.)

	Guaranteed	Found
Phenols . . . . .	31.66	31.75
Mineral oils . . . . .	66.66	67.25
Water . . . . .	....	0.90

*Cal. Dept. Agr., Spec. Pub. 101, 71 (1930).*

**Dipdust**

*See Bayer Dipdust.*

**Dip Room Salts**

(SCOVILLE MANUFACTURING CO., WATERBURY, CONN.)

	Guaranteed	Found
Copper . . . . .	18.56	20.04
Zinc . . . . .	2.28	0.90
Sulfur trioxide . . . . .	....	31.27
Free acid . . . . .	23.35	6.05

Calculated Composition:

Copper sulphate (CuSO <sub>4</sub> · 5 H <sub>2</sub> O) . . . . .	....	78.69
Zinc sulphate (Zn SO <sub>4</sub> · 7 H <sub>2</sub> O) . . . . .	....	3.94
Sulphuric acid (H <sub>2</sub> SO <sub>4</sub> ) . . . . .	....	6.05

*Conn. Agr. Expt. Sta., Bul. 346, 223 (1933).*

**Dips**

*See Phenol Soap Solutions.*

**Disinfectant Powder**

(MIDLAND PRODUCE CO., FARGO, N. DAK.)

Not analyzed.—*N. Dak., Bul. 37, 121 (1932).*

**Diversol**

(DIVERSEY MANUFACTURING CO., CHICAGO, ILL.)

Guaranteed: Sodium hypochlorite over 2.5 percent; trisodium phosphate over 90.00 percent; inert (sodium chloride, etc.) under 5.0 percent.

Found: Available chlorine 2.71 percent; sodium hypochlorite 2.85 percent.

*Conn. Agr. Expt. Sta., Bul. 346, 223 (1933).*

**Dr. David Robert's Poultry Louse Powder**

(DR. DAVID ROBERTS VETERINARY CO., INC.)

	Guaranteed	Found
Nicotine . . . . .	0.04	0.28
Naphthalene . . . . .	9.00	9.98
Sulphur . . . . .	18.00	19.80
Sodium fluoride . . . . .	5.00	0.54

*Cal. Dept. Agr., Spec. Pub. 75, 40 (1927).*

## Composition of Commercial Insecticides

### Dr. G. Z. Wait's Sheep Dip

### Dr. Hess Dip & Disinfectant

### Dr. Le Gear's Dip & Disinfectant

See Phenol Soap Solutions.

### Dormant Dust

(NIAGARA SPRAYER CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Sodium polysulphide.....	40.00	22.3

*Oreg. Agr. Expt. Sta., Cir. 84, 11 (1927).*

### Dormant Oil Emulsion

### Dormant Soluble Oil

See Oil Emulsions, Mineral.

### Dormoil

### Dormol

See Oil Emulsions, Mineral.

### Dosch B-12 Green Copper Arsenic Dust

(DOSCH CHEMICAL CO., LOUISVILLE, KY.)

	Guaranteed	Found
Copper.....	5.75	5.79
Arsenic, metal.....	2.75	3.39

The arsenic is present as calcium arsenate.  
*Conn. Agr. Expt. Sta., Bul. 258, 370 (1924).*

### Dosch 85-15 Sulfur-Lead Arsenate

(DOSCH CHEMICAL CO., LOUISVILLE, KY.)

Found: Moisture 0.50 percent; free sulphur none; lead oxide 8.60 percent; arsenic oxide 4.80 percent; silica 0.50 percent; sodium sulphate 2.33 percent; calcium carbonate 0.23 percent; calcium hydroxide 79.52 percent; magnesium carbonate 2.41 percent; iron and aluminum oxides, none.

*Cal. Dept. Agr., Spec. Pub. 34, 56 (1923).*

### Dosch Nicotine-Sulfur Dust

See Nicotine-Sulphur Dusts.

### Dosch No. 6 Nicotine Dust

### Dosch No. 10 Nico-Dust

See Nicotine Dusts.

### Dosch Sulfur-Arsenate Dust

(DOSCH CHEMICAL CO., LOUISVILLE, KY.)

	Guaranteed	Found
Sulphur.....	84.00	84.00
Lead Arsenate.....	14.70	14.80

*Cal. Dept. Agr., Spec. Pub. 34, 56 (1923).*

### Dosch Tobacco Dust

See Tobacco Dusts.

### Double Nico-Dust

### Double Nicotine Dust

See Nicotine Dusts.



**Dowco**

(DOW CHEMICAL CO., MIDLAND, MICH.)

	Guaranteed	Found
Arsenic oxide . . . . .	13.50	14.50
Copper . . . . .	12.70	14.40

*Oreg. Agr. Expt. Sta., Cir. 106, 18 (1931).*

**Dow Magnesium Arsenate**

See Arsenate of Magnesium.

**Dow Magnesium Arsenate Dust Mixture**

(DOW CHEMICAL CO., MIDLAND, MICH.)

	Guaranteed	Found
Total arsenic, metal . . . . .	5.22	5.95
Water-soluble arsenic, metal . . . . .	0.06	0.07

*N. J. Agr. Expt. Sta., Bul. 577, 6 (1934).*

**Dow Potato Spray**

(DOW CHEMICAL CO., MIDLAND, MICH.)

	Guaranteed	Found
Total arsenic, metal . . . . .	26.00	26.73
Copper . . . . .	5.00	5.88

*Maine Agr. Expt. Sta., Official Inspections 146, 134 (1932).*

**Dreft**

(PROCTER & GAMBLE)

Found: Sodium lauryl sulphate 32.76 percent; sodium sulphate 54.11 percent; water 1.10 percent.—*Conn. Agr. Expt. Sta., Sample 973.*

**Dry Mix**

(W. A. ALLEN, PITTSTOWN, N. J.)

	Guaranteed	Found
Sulphur . . . . .	60.00	60.12

*N. J. Agr. Expt. Sta., Bul. 594, 7 (1935).*

**Dry Mix**

(HOOD RIVER SPRAY CO., HOOD RIVER, OREG.)

	Guaranteed	Found
Arsenious oxide, $As_2O_3$ . . . . .	3.00	3.16
Sulphur . . . . .	90.00	88.00

*Oreg. Agr. Expt. Sta., Cir. 106, 15 (1931).*

**Dry Mix Sulphur-Lime**

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

(See also New Jersey Dry Mix Sulphur-Lime, Niagara Dry Mix.)

	Guaranteed	Found
Sulphur . . . . .	62.00	62.80

*N. J. Agr. Expt. Sta., Bul. 424, 10 (1925).*

**Dry Powder Key Cide**

See Bordeaux Mixture-Lead Arsenate.

**Dryzen**

(GRIFFITH-LATHROP CO., PORTLAND, OREG.)

	Guaranteed	Found
Sodium fluoride . . . . .	4.90	4.80

*Oreg. Agr. Expt. Sta., Cir. 106, 22 (1931).*

## Composition of Commercial Insecticides

### D 6 Dust

See Niagara D 6 Dust.

### D 20 Dust

See Niagara D 20 Dust.

### D 25 Potato Dust

See Niagara D 25 Potato Dust.

### Du Pont Semesan, Jr.

(E. J. DU PONT DE NEMOURS & CO., INC., WILMINGTON, DEL.)

Guaranteed: Hydroxymercurichlorophenol 10.00 percent.

Found: Mercury 6.59 percent.

Cal. Dept. Agr., Spec. Pub. 75, 62 (1927).

### Dustall No. 3

### Dustall No. 4

### Dustall No. 6

### Dustall No. 8

### Dustall No. 10

See Nicotine Dusts.

### Dustall No. 41

(INSECTICIDE SUPPLY CO., VISTA, CAL.)

	Guaranteed	Found
Copper.....	7.00	7.37

Cal. Dept. Agr., Spec. Pub. 101, 40 (1930).

### Dustall No. 72

(INSECTICIDE SUPPLY CO.)

	Guaranteed	Found
Total arsenic.....	6.00	6.90
Copper.....	7.00	7.40

Cal. Dept. Agr., Spec. Pub. 101, 16 (1930).

### Dustall No. 73

(INSECTICIDE SUPPLY CO.)

	Guaranteed	Found
Total arsenic.....	.....	9.25
Water-soluble arsenic.....	.....	0.38
Copper.....	.....	6.73

Cal. Dept. Agr., Spec. Pub. 101, 16 (1930).

### Dust Mixture No. 3, Niagara

See Nicotine Dusts.

### Dust Mixture with Sulphur and Nicotine, Niagara

See Nicotine-Sulphur Dusts.

### Dwight Judson's Ideal Spray Oil-1930

See Oil Emulsions, Mineral.

### Dwin Household Insect Killer

(BALDWIN LABORATORIES, SAEGERTOWN, PA.)

Claimed to contain pyrethrum. Sample is probably a perfumed kerosene extract of pyrethrum. No phenols, nicotine, rotenone or mineral matter present.—Conn. Agr. Expt. Sta., Sample 2705.

E

**Earwig Bait**

(CITY OF PORTLAND, PORTLAND, OREG.)

	Guaranteed	Found
Sodium fluoride.....	4.30	4.90
<i>Oreg. Agr. Expt. Sta., Cir. 64, 14 (1925).</i>		

**Earwig Bait**

(HARDY MFG. CO., PORTLAND, OREG.)

	Guaranteed	Found
Sodium fluoride.....	4.30	4.80
<i>Oreg. Agr. Expt. Sta., Cir. 84, 15 (1927).</i>		

**Earwig Bait**

(MILLER PRODUCTS CO., PORTLAND, OREG.)

	Guaranteed	Found
Sodium fluoride.....	4.30	4.70
<i>Oreg. Agr. Expt. Sta., Cir. 64, 14 (1925).</i>		

**Earwig Powder**

(H. N. LECKENBY, SEATTLE, WASH.)

	Guaranteed	Found
Sodium fluoride.....	75.00	68.60
<i>Oreg. Agr. Expt. Sta., Cir. 106, 21 (1931).</i>		

**Economy Fly Spray**

(SOUTHERN CALIFORNIA DISINFECTING CO., LOS ANGELES, CAL.)

Found: Phenols 4.40 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 71 (1930).*

**Economy Germicide Dip**

See Phenol Soap Solutions.

**885 Oil**

See Oils, Mineral.

**85-15 Dust**

(STANDARD CHEMICAL WORKS, READING, PA.)

	Guaranteed	Found
Total arsenic, metal.....	.....	3.33
Water-soluble arsenic, metal.....	.....	0.29
Sulphur.....	85.00	85.30
<i>N. J. Agr. Expt. Sta., Bul. 478, 13 (1928).</i>		

**85-15 Dusting Mixture**

See Nicotine Dusts.

**85-15 Sulpho Arsenate**

(LUCAS-KIL-TONE CO., VINELAND, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	.....	3.28
Water-soluble arsenic, metal.....	0.50	0.15
Sulphur.....	83.00	83.62
<i>N. J. Agr. Expt. Sta., Bul. 513, 12 (1930).</i>		

## Composition of Commercial Insecticides

### 85-15 Sulfur-Lead Dust

(J. R. GILLAM & BRO., BURLINGTON, N. J.)

	Guaranteed	Found
Total arsenic, metal. . . . .	2.73	3.15
Water-soluble arsenic, metal. . . . .	0.50	0.22
Sulphur. . . . .	82.00	87.74

*N. J. Agr. Expt. Sta., Bul. 485, 11 (1929).*

### 85-15 Sulphur Lead Arsenate Dust

(ANSBACHER-SIEGLE CORP., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal. . . . .	3.24	3.39
Sulphur. . . . .	83.50	83.30

*Maine Agr. Expt. Sta., Official Inspections 146, 136 (1932).*

### 80 Sulphur—20 Lime

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Sulphur. . . . .	79.00	77.99

*N. J. Agr. Expt. Sta., Bul. 441, 7 (1926).*

### 80-10-10 Mixture

See Nicotine Dusts.

### 80-20

(J. R. GILLAM & BRO., BURLINGTON, N. J.)

	Guaranteed	Found
Sulphur. . . . .	78.00	74.60

*N. J. Agr. Expt. Sta., Bul. 441, 7 (1926).*

### 80-20 Dust

(CHAMBERLIN & BARCLAY, INC., CRANBURY, N. J.)

	Guaranteed	Found
Total arsenic, metal. . . . .	5.00	6.81
Water-soluble arsenic, metal. . . . .	0.50	0.12

*N. J. Agr. Expt. Sta., Bul. 594, 10 (1935).*

### 80-20 Lime-Calcium Arsenate

(LUCAS-KIL-TONE CO., VINELAND, N. J.)

Found: Total arsenic, metal, 5.80 percent; water-soluble arsenic, metal, 0.12 percent.—*N. J. Agr. Expt. Sta., Bul. 548, 13 (1932).*

### 80-20 Mixture

See Niagara 80-20 Mixture.

### 80-20 Sulphur-Lime Dust

(LUCAS KIL-TONE CO., VINELAND, N. J.)

Guaranteed: Sulphur 80.00 percent.

Found: Sulphur 76.49 percent. Fineness: coarser than 100 mesh, 0.80; passes 100 mesh, 99.2; 200 mesh, 77.1; 300 mesh, 24.60.

*N. J. Agr. Expt. Sta., Bul. 459, 8 (1927).*

### 80-20 Sulfur-Lime Mixture

(LUCAS KIL-TONE CO., VINELAND, N. J.)

Guaranteed: Sulphur 80.00 percent.

Found: Sulphur 77.84 percent. Fineness: passes 100 mesh, 55.50; 200 mesh, 37.80; 300 mesh, 6.70.

*N. J. Agr. Expt. Sta., Bul. 459, 8 (1927).*

**Electric Rat & Roach Paste**

See Phosphorus Preparations.

**Electroicide**

See Arsenate of Calcium.

**Electro Dry Powdered Bordo-Calcium Mixture**

(VREELAND CHEMICAL MFG. CO., LITTLE FALLS, N. J.)

	Guaranteed	Found
Total arsenic, metal. . . . .	13.00	15.86
Water-soluble arsenic, metal. . . . .	0.50	0.49
Copper. . . . .	9.00	8.27

*N. J. Agr. Expt. Sta., Bul. 372, 24 (1922).***Electro Micro**

(VREELAND CHEMICAL MFG. CO., LITTLE FALLS, N. J.)

	Guaranteed	Found
Total arsenic, metal. . . . .	9.25	10.73
Water-soluble arsenic, metal. . . . .	0.50	0.08
Sulphur. . . . .	48.00	46.21

*N. J. Agr. Expt. Sta., Bul. 459, 16 (1927).***Elkay's Rat and Roach Paste**

See Phosphorus Preparations.

**Elkay's Roach Powder**

(UNITED DRUG CO., BOSTON, MASS.)

Guaranteed: Sodium fluosilicate 42.25 percent; sodium fluoride 2.65 percent; total fluorine 26.8 percent.

Found: Total fluorine 27.15 percent.—*Maine Agr. Expt. Sta., Official Inspections 146, 139 (1932).***El Rey Gopher Poison**

See Strychnine Preparations.

**El Roy Argentine Ant Poison**

(ROY SPECIALTY CO.)

	Guaranteed	Found
Arsenic, metal. . . . .	0.20	0.11

*Cal. Dept. Agr., Spec. Pub. 75, 24 (1927).*

**El Roy Gopher Poison**

See Strychnine Preparations.

**El Vampiro**

(ALLAIRE, WOODWARD &amp; CO.)

Guaranteed: Pyrethrum 75.00 percent.

Found: Ash 6.98 percent; organic matter 93.02 percent.

*Cal. Dept. Agr., Spec. Pub. 75, 63 (1927).***E. M. F. Orchard Spray****Emulso**

See Oil Emulsions, Mineral.

**End-O-Pest**

(AGRICULTURAL CHEMICAL WORKS)

	Guaranteed	Found
Arsenic. . . . .	1.32	2.46

*Cal. Dept. Agr., Spec. Pub. 101, 21 (1930).*

**Enoz Moth Liquid**

(ENOZ CHEMICAL CO., CHICAGO, ILL.)

Found: The preparation is a petroleum product.—*Maine Agr. Expt. Sta., Official Inspections* 134, 114 (1929).

**Enoz Moth Spray**

(ENOZ CHEMICAL CO., CHICAGO, ILL.)

Preparation is a perfumed 3.85 percent solution of phenol in kerosene.  
*Conn. Agr. Expt. Sta., Sample* 1197.

**Entodust**

See Arsenate of Lead.

**Entomocide**

(SACRAMENTO CHEM. CO., SACRAMENTO, CAL.)

Claimed to contain phenol, carbon tetrachloride, oil of citronella and mineral oil.

*Oreg. Agr. Expt. Sta., Cir.* 64, 15 (1925).

**E. S. C. Condensed Rosin Potash Spray Paste Form****E. S. C. Fish Oil Soap****E. S. C. Whale Oil Soap**

See Soaps.

**Ever Green**

(MCLAUGHLIN-GORMLEY-KING CO., MINNEAPOLIS, MINN.)

Guaranteed: Pyrethrum oleo-resin 11.5 percent; acetone 7.5 percent; alcohol 72 percent.

Found: Acetone and alcohol present.—*Maine Agr. Expt. Sta., Official Inspections* 134, 114 (1929).

**Evergreen Spray**

See New Evergreen Spray.

**Ever Green 20**

(MCLAUGHLIN-GORMLEY-KING CO., MINNEAPOLIS, MINN.)

Guaranteed: Water 9 percent; acetone 8 percent; pyrethrum extractive 18 percent; alcohol 63 percent.

Found: Pyrethrins 8.90 grams per 100 cc.—*Conn. Agr. Expt. Sta., Sample* 2611.

**Exelo**

(SAN JOSE SPRAY MANUFACTURING CO., SAN JOSE, CAL.)

Guaranteed: Water 17.00 percent.

Found: Phenols 8.50 percent; soap 10.60 percent; mineral oil 45.98 percent; non-mineral oil 25.49 percent; water 8.00 percent.—*Cal. Dept. Agr., Spec. Pub.* 101, 75 (1930).

**Exelol**

See Oil Emulsions, Mineral.

**Extermo**

(L. T. GRAVES FERTILIZER CO., PASADENA, CAL.)

Claimed to be both a fertilizer and an insecticide.

Found: Nitrogen 0.18 percent; phosphoric acid 0.06 percent; potassium oxide 0.08 percent; organic matter 62.19 percent; mineral matter 32.21 percent; sodium carbonate 4.66 percent; soap 1.10 percent; moisture 5.60 percent.

*Cal. Dept. Agr., Spec. Pub.* 34, 60 (1923).

**Extermol**

See Oil Emulsions, Mineral.

**Extermo Roach Powder**

See Pyrethrum.

**E-Z Burgundy**

See Bordeaux Mixture.

**E-Z Spray**

(E-Z WAY CO., OAKLAND, CAL.)

	Guaranteed	Found
Sodium polysulphide.....	33.00	33.62
Sodium thiosulphate.....	3.00	6.97
Soap.....	5.00	8.08

*Cal. Dept. Agr., Spec. Pub. 58, 34 (1925).*

**F****F-A-G Moth Insurance**

See Paradichlorbenzene.

**Felbro Whale Oil Soap**

See Soaps.

**Ferrofilm**

See Green Cross Ferrofilm.

**Fertilizer and Insect Exterminator**

(MANUFACTURER NOT STATED)

Found: Moisture 7.60 percent; organic matter 53.60 percent; ash 39.80 percent; sodium carbonate 5.30 percent; nitrogen 0.69 percent; phosphoric acid none; potassium trace. Probably a mixture of straw and sawdust, limestone, charcoal and ashes.

*Cal. Dept. Agr., Spec. Pub. 34, 60 (1923).*

**Fertilor**

(CALIFORNIA COPPER PRODUCERS' TRUST)

	Guaranteed	Found
Ferrous sulfate (FeSO <sub>4</sub> ).....	25.00	33.08
Ferric sulfate [Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> ].....	20.00	29.98
Copper sulfate (CuSO <sub>4</sub> ).....	5.00	4.99

*Cal. Dept. Agr., Spec. Pub. 101, 85 (1930).*

**Fertilore Soil Stimulant**

(FERTILORE CO., LOS ANGELES, CAL.)

WATER-SOLUBLE		Guaranteed	Found
Ferric oxide.....		23.98	19.25
Aluminum oxide.....		0.52	0.75
Copper oxide.....		0.40	1.25
Sulphur trioxide.....		39.75	25.80
WATER-INSOLUBLE			
Acid-insoluble.....		8.95	30.15
Ferric oxide.....		7.64	21.65
Aluminum oxide.....		0.11	0.50
Sulphur trioxide.....		6.72	45.93

**Fertilore Soil Stimulant (Cont.)**

**CALCULATED COMPOSITION**

Ferric sulphate.....	36.64
Copper sulphate.....	3.92
Aluminum sulphate.....	5.02
Iron Pyrites.....	3.50
Silica.....	9.25

*Cal. Dept. Agr., Spec. Pub. 51, 58 (1925).*

**50-50**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Lead arsenate.....	48.00	48.10

*Oreg. Agr. Expt. Sta., Cir. 64, 11 (1925).*

**55 Lime, 25 Calcium Arsenate, 20 Copper**

(COOPERATIVE G. L. F. MILLS, INC., BUFFALO, N. Y.)

Found: Total arsenic (metal) 6.57 percent; water-soluble arsenic (metal) 0.08 percent; copper 7.14 percent.—*N. J. Agr. Expt. Sta., Bul. 594, 11 (1935)*

**56**

*See Oil Emulsions, Mineral.*

**56 White Oil**

*See Oils, Mineral.*

**Fir-Tree Oil Soap**

*See Soap.*

**Fishermen's Friend**

(COOK, EVERETT & PENNELL, PORTLAND, MAINE)

Found: The preparation is an oil containing citronella.—*Maine Agr. Expt. Sta., Official Inspections 134, 114 (1929).*

**Fishermen's Protector**

(COOK, EVERETT & PENNELL, PORTLAND, MAINE)

Found: The preparation is a paste containing oil tar.—*Maine Agr. Expt. Sta., Official Inspections 134, 114 (1929).*

**Fish Oil**

*See Oil, Fish.*

**Fish Oil Soap**

*See Soaps.*

**5 White Oil**

*See Oils, Mineral.*

**5 X**

*See Nicotine-Sulphur Dusts.*

**Flea-Off-Flea Powder**

(OSGOOD DRUG STORES, OAKLAND, CAL.)

Not analyzed.

*Cal. Dept. Agr., Spec. Pub. 58, 48 (1925).*

**Fli-Mo-Cide**

*See Oils, Mineral.*



**Flit**

(THE STANDARD OIL CO., BAYONNE, N. J.)

Found: Specific gravity, 19° C., 0.810; flash point 60° C.; fire point 69° C.; residue at 100° C., 0.28 percent; methyl salicylate 0.75 percent. The base is kerosene.

Canada Dept. Agr., Div. Chem., Rept. Dominion Chemist (1928).

**Floraferro**

(CALIFORNIA COPPER PRODUCERS TRUST)

	Guaranteed	Found
Ferrous sulphate.....	25.00	29.74
Ferric sulphate.....	20.00	24.34
Copper sulphate.....	5.00	5.61

Cal. Dept. Agr., Spec. Pub. 75, 45 (1927).

**Floral Nicotine**

See Nicotine Sulphate Solutions.

**Flower Garden Dust or Spray**

(NIAGARA SPRAYER & CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Basic lead arsenate.....	10.00	....
Total arsenic, metal.....	1.40	1.56
Water-soluble arsenic, metal.....	0.25	0.11
Sulphur.....	86.00	88.46

Maine Agr. Expt. Sta., Official Inspections 158, 139 (1935).

**Flue Dust**

(SCOVILLE MANUFACTURING CO., WATERBURY, CONN.)

Guaranteed: Copper 3.24 percent; zinc 31.36 percent.

Found:	Water-Soluble	Water-Insoluble
Total.....	23.97	76.03
Acid-insoluble.....	....	31.55
Lead oxide.....	....	1.54
Copper oxide.....	....	3.23
<b>Iron and aluminum oxides.....</b>	....	<b>3.82</b>
Zinc oxide.....	6.07	31.72
Mangano-manganic oxide.....	....	0.14
Sulfur trioxide.....	10.02	1.23
Water.....	1.57	....

Sodium and potassium present; traces of cadmium, calcium, magnesium and chloride.—Conn. Agr. Expt. Sta., Bul. 346, 225 (1933).

**Fluoricide**

(NITRATE AGENCIES, BAYONNE, N. J.)

	Guaranteed	Found	Guaranteed	Found
Fluorine.....	15.00	15.31	7.00	7.88

Conn. Agr. Expt. Sta., Bul. 300, 255 (1929).

**Fluoride of Copper**

See Cupric Fluoride.

**Fluoride of Sodium**

See Sodium Fluoride.

**Fluosilicate of Sodium**

See Flu-Si Dust.

## Composition of Commercial Insecticides

### "Flu-Si" Dust

(MICHEL & PELTON CO.)

	Guaranteed	Found
Sodium fluosilicate.....	70.00	70.13

*Cal. Dept. Agr., Spec. Pub. 101, 85 (1930).*

### Fluxit Fixator

(COLLOIDAL PRODUCTS CORP., SAN FRANCISCO, CAL.)

Found: Calcium hydroxide 76.94 percent; casein 6.57 percent; total ash 61.03 percent; rosin, starch and a little sand present.—*Conn. Agr. Expt. Sta., Sample 317.*

### Fluxit Fixator No. 2

(COLLOIDAL PRODUCTS CORP., SAN FRANCISCO, CAL.)

Found: Calcium hydroxide 70.82 percent; casein 12.54 percent; total ash 59.14 percent; rosin, starch and a little sand present.—*Conn. Agr. Expt. Sta., Sample 318.*

### Fly Croke

*See Oils, Mineral.*

### Fly Ded

(MIDWAY CHEMICAL CO., CHICAGO, ILL.)

Sample is a mixture of kerosene and methyl salicylate.—*Maine Agr. Expt. Sta., Official Inspections 142, 119 (1931).*

### Fly Foil

Not analyzed.

*Cal. Dept. Agr., Spec. Pub. 58, 48 (1925).*

### Fly-Tox

(CANADA REX SPRAY CO., BRIGHTON, ONT., CANADA)

(*See also Rex Fly Tox.*)

Found: Specific gravity 19° C., 0.830; flash point 66° C.; fire point 78° C.; residue at 100° C., 0.31 percent; methyl salicylate 3.13 percent; pyrethrum present. Base is kerosene.

*Canada Dept. Agr., Div. Chem. Rept. Dominion Chemist (1928).*

### Fly Tox

(TOLEDO REX SPRAY CO., TOLEDO, OHIO)

Sample contains kerosene and some undetermined volatile repellent oils.  
*Maine Agr. Expt. Sta., Official Inspections 142, 119 (1931).*

### Fly X

*See Sapho Fly X.*

### Foliage

(AN-FO MANUFACTURING CO., OAKLAND, CAL.)

Found: Water 1.50 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 84 (1930)*

### Ford's Ant Powder

(FORD CHEMICAL CO., OAKLAND, CAL.)

	Guaranteed	Found
Insect powder.....	7.00	....
Sodium fluoride.....	76.00	76.30
Organic matter.....	....	10.29

*Cal. Dept. Agr., Spec. Pub. 75, 63 (1927).*

### Formaldehyde

*See Table XII, page 688.*

**Form-O-Zone**

(SOUTHERN CALIFORNIA DISINFECTING CO., LOS ANGELES, CAL.)

Found: Formaldehyde 3.38 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 86 (1930).*

**Fort Industry Brand Lye**

(SINCLAIR MANUFACTURING CO., LOS ANGELES, CAL.)

Found: Sodium hydroxide 93.20 percent; sodium carbonate 2.12 percent.  
*Cal. Dept. Agr., Spec. Pub. 101, 83 (1930).*

**“40” Dust**

(VAYCIDE CHEMICAL CORP., BINGHAMTON, ALA.)

	Guaranteed	Found
Total arsenic, metal . . . . .	1.80	2.33
Water-soluble arsenic, metal . . . . .	0.75	0.37
Copper . . . . .	1.05	0.55
Sulphur . . . . .	25.00	22.73
Nicotine . . . . .	1.00	0.34

*N. J. Agr. Expt. Sta., Bul. 424, 16 (1925).*

**40% Nicotine Sulphate**

*See Nicotine Sulphate Solutions.*

**40-60 Calcium Arsenate-Lime Mixture**

(LUCAS-KIL-TONE CO., VINELAND, N. J.)

	Guaranteed	Found
Total arsenic, metal . . . . .	10.43	11.15
Water-soluble arsenic, metal . . . . .	0.20	0.24

*N. J. Agr. Expt. Sta., Bul. 548, 12 (1932).*

**Four and One Spray**

**14 Spray Oil**

*See Oils, Mineral.*

**Fragrance Crystals**

*See Paradichlorbenzene.*

**Frazier’s 5X**

*See Nicotine-Sulphur Dusts.*

**Frazier’s Wet-O-Dry Sulphur**

(F. A. FRAZIER CO.)

	Guaranteed	Found
Sodium polysulphide . . . . .	21.00	18.71
Sodium thiosulphate . . . . .	12.00	13.15
Free sulphur . . . . .	60.00	61.43

*Cal. Dept. Agr., Spec. Pub. 58, 34 (1925).*

**Frazier’s XX Sulphur**

(F. A. FRAZIER CO.)

	Guaranteed	Found
Sodium polysulphide . . . . .	21.00	15.84
Sodium thiosulphate . . . . .	12.00	10.09
Free sulphur . . . . .	60.00	69.36
Inert matter . . . . .	7	....

*Cal. Dept. Agr., Spec. Pub. 51, 29 (1925).*

**Free Mulsion**

*See Oil Emulsions, Mineral.*

## Composition of Commercial Insecticides

### Fresnol Ant Poison

(FRESNOL PRODUCTS INCORPORATED)

	Guaranteed	Found
Arsenic.....	0.17	0.18
<i>Cal. Dept. Agr., Spec. Pub. 101, 20 (1930).</i>		

### Fresnol Disinfectant

(FRESNOL PRODUCTS, INC., VAN NUYS, CAL.)

	Guaranteed	Found
Sodium hypochlorite.....	5.50	3.95
<i>Cal. Dept. Agr., Spec. Pub. 101, 80 (1930).</i>		

### Fruitex Dust

*See Niagara Fruitex Dust.*

### Fruit Kil-Tone

*See Green Cross Fruit Kil-Tone.*

### Fuller's Carbolic Insecticide Sheep Dip

#### Fuller's Sheep Dip and Cattle Wash

*See Phenol Soap Solutions.*

### Fumetobac

*See Nicotine Dusts.*

### Fumex Moth Killer

*See Paradichlorbenzene.*

### Fumigator

*See Nicotine Dusts.*

### Fumispray

*See Oil Emulsions, Mineral.*

### Fungi-Bordo

*See Bordeaux Mixture.*

### Fungtrogen

(CHEMICAL PRODUCTS DIVISION, ROSE MFG. CO., PHILADELPHIA, PA.)

	Guaranteed	Found
Copper.....	0.47	0.43
Nickel.....	0.47	0.32
Inert matter.....	99.06	....
<i>Conn. Agr. Expt. Sta., Bul. 300, 258 (1929).</i>		

### Funtrogen

(GERMAIN SEED & PLANT CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Copper.....	10.00	0.86
<i>Cal. Dept. Agr., Spec. Pub. 75, 43 (1927).</i>		

### Fungtrogen Spray

(GERMAIN SEED & PLANT CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Copper.....	0.80	0.81
<i>Cal. Dept. Agr., Spec. Pub. 101, 40 (1930).</i>		

**Funtrogen**

(ROSE MFG. CO., PHILADELPHIA, PA.)

	Guaranteed	Found
Copper.....	0.47	0.46
Nickel.....	0.47	0.54

*Maine Agr. Expt. Sta., Official Inspections 154, 136 (1934).*

**G**

**Garden Dust**

(DOSCH CHEMICAL CO., LOUISVILLE, KY.)

	Guaranteed	Found
Nicotine.....	2.00	2.24

A mixture of lead arsenate, sulphur and nicotine.  
*Conn. Agr. Expt. Sta., Bul. 242, 154 (1922).*

**Garden Guard**

See Acme Garden Guard

**Garden Insecticide**

(GEO. H. LEE, OMAHA, NEB.)

Guaranteed: Nicotine, sodium fluoride, sulphur, naphthalene and pyrethrum present.

Found: There is a small deficiency in the sodium fluoride and sulphur.

*Oreg. Agr. Expt. Sta., Cir. 64, 15 (1925).*

**Garden Insecticide**

(DR. L. D. LE GEAR MEDICINE CO., ST. LOUIS, MO.)

	Guaranteed	Found
Arsenic, metal.....	3.00	3.60
Sulphur.....	19.50	18.70

*Oreg. Agr. Expt. Sta., Cir. 95, 14 (1929).*

**Garden Volck**

See Oil Emulsions, Mineral.

**Gard-N-Spray**

See Nicotine Sulphate Solution.

**Germain Crude Carbolic Acid**

See Phenol.

**Germain Fish Oil Soap**

**Germain's Rosin Wash**

See Soaps.

**Germain's Soluble Sulfur Compound**

(GERMAIN SEED & PLANT CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Water-soluble.....	.....	95.85
Polysulphide sulphur.....	.....	37.22
Thiosulphate sulphur.....	.....	13.57
Sulphate and sulphite sulphur.....	.....	0.66
Total sulphur.....	.....	51.45
Sodium polysulphide.....	56.00	48.95
Sodium thiosulphate.....	25.00	33.50
Free sulphur.....	4.00	4.00
Inert matter.....	15.00	.....

*Cal. Dept. Agr., Spec. Pub. 34, 32 (1923).*

**Germo**

See Oils, Mineral.

**Germo Carboline**

See Phenol Soap Solutions.

**Germo Carboline Paint**

(GERMO MANUFACTURING CO., LONG BEACH, CAL.)

Guaranteed: Water 1.50 percent.

Found: Phenols 2.36 percent; tar oils 52.05 percent; mineral oils 42.80 percent; water 0.10 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 70 (1930).*

**Germo Creosote Disinfectant Dip**

See Phenol Soap Solutions.

**Germo Cresolis**

(GERMO MFG. CO., LOS ANGELES, CAL.)

Found: Phenols 56.25 percent; water 10.00 percent.

*Cal. Dept. Agr., Spec. Pub. 51, 43 (1925).*

**Germo Creosote Dip**

See Phenol Soap Solutions.

**Germo Magic Lice Powder**

(GERMO MFG. CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Nicotine.....	0.40	0.42
Naphthalene.....	10.00	11.12
Sulphur.....	20.00	14.16
Phenols.....	1.83	1.22

*Cal. Dept. Agr., Spec. Pub. 75, 40 (1927).*

**Germo Pine-Oil**

(GERMO MFG. CO., LOS ANGELES, CAL.)

Guaranteed: Water 15.00 percent.

Found: Total oils 78.20 percent; soap 16.80 percent; water 4.00 percent; sample is a pine oil preparation.—*Cal. Dept. Agr., Spec. Pub. 101, 77 (1930).*

**Germo Pynol Emulsion**

(GERMO MFG. CO., LOS ANGELES, CAL.)

Guaranteed: Pine oil 35.00 percent.

Found: Mineral oil 38.00 percent; total oil 36.40 percent; soap 18.00 percent; water 4.80 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 77 (1930).*

**Germo Rat Death**

(GERMO MFG. CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Barium carbonate.....	96.50	98.50

*Cal. Dept. Agr., Spec. Pub. 66, 34 (1926).*

**Germo Sodochlorite**

(THE GERMO MANUFACTURING CO., SANTA CRUZ, CAL.)

	Guaranteed	Found
Available chlorine.....	4.00	3.94

*Cal. Dept. Agr., Spec. Pub. 101, 80 (1930).*

**Germosol Special Disinfectant**

**Germo Sheep Dip**

See Phenol Soap Solutions.

**Germo Worm Powder**

(GERMO MFG. CO., LOS ANGELES, CAL.)

Found: Volatile and organic matter 64.50 percent; insoluble matter 2.35 percent; calcium oxide 7.07 percent; sulphur trioxide 10.81 percent; ferric oxide 15.30 percent.

*Cal. Dept. Agr., Spec. Pub. 75, 65 (1927).*

**Gets-Em Ant Powder**

(BRUNSWIG DRUG CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Sodium fluoride.....	71.00	72.00
Pyrethrum.....	4.00	....
Organic matter.....	....	4.34

*Cal. Dept. Agr., Spec. Pub. 101, 78 (1930).*

**Getsem Gopher Exterminator**

(RICHERT AND ROYER.)

	Guaranteed	Found
Phenols.....	....	4.40
Water.....	1.00	trace

*Cal. Dept. Agr., Spec. Pub. 75, 56 (1927).*

**Getzum Fluid**

(WEED DESTROYER CO., ABERDEEN, WASH.)

	Guaranteed	Found
Arsenic, metal.....	24.0	24.9

*Oreg. Agr. Expt. Sta., Cir. 106, 21 (1931).*

**G. & J. Brand Copper Arsenic Dust**

(AROOSTOOK SUPPLY & TRANSFER CO., PRESQUE ISLE, ME.)

	Guaranteed	Found
Total arsenic, metal.....	6.00	6.91
Water-soluble arsenic, metal.....	0.50	0.11
Copper.....	7.00	7.12

*Maine Agr. Expt. Sta., Official Inspections 158, 136 (1935).*

**G. & J. Brand Copper Lime Dust**

*See Bordeaux Mixture.*

**G.L.F. Quality Copper-Lime Dust 80-20**

(COOPERATIVE G.L.F. MILLS, INC., BUFFALO, N. Y.)

Found: Copper 6.66 percent.—*N. J. Agr. Expt. Sta., Bul. 594, 11 (1935).*

**G.L.F. Quality Copper-Lime Dust 60-20-20**

(COOPERATIVE G.L.F. MILLS, INC., BUFFALO, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	5.35	5.29
Water-soluble arsenic, metal.....	0.15	0.08
Copper.....	....	6.91

*N. J. Agr. Expt. Sta., Bul. 594, 11 (1935).*

**G.L.F. Quality Dry Mix**

(COOPERATIVE G.L.F. MILLS, INC., BUFFALO, N. Y.)

	Guaranteed	Found
Sulphur.....	80.00	77.52

*N. J. Agr. Expt. Sta., Bul. 556, 9 (1933).*

**Go-For Gopher**

*See Strychnine Preparations*

**G O-4**

(GOULARD &amp; OLENA, INC., NEW YORK, N. Y.)

Guaranteed: Lead arsenate 43.00 percent; calcium arsenate 10.50 percent; copper 4.00 percent; nicotine sulphate 5.00 percent; total arsenic oxide 18.00 percent; water-soluble arsenic (metal) 0.50 percent; inert 37.50 percent.

Found: Nicotine sulphate 7.19 percent; total arsenic oxide 23.23 percent.  
*Conn. Agr. Expt. Sta.*, Sample 6072.

**Gold Crown Poison****Gold Crown Poison Barley**

See Phosphorus Preparations.

**Gold Leaf Tobacco Powder**

See Nicotine Dusts.

**G. & O. Nicotine Sulfate 40%**

See Nicotine Sulphate Solutions.

**Gopher Bane****Gopher Death****Gopher-Get-er****Gopher-Go****Gopher Poison****Gopher-Scent**

See Strychnine Preparations.

**Government Formula Argentine Ant Poison**

(F. A. GARDNER &amp; CO., RIVERSIDE, CAL.)

	Guaranteed	Found
Arsenious oxide . . . . .	0.17	0.17
Total arsenic, metal . . . . .	0.20	0.13

*Cal. Dept. Agr., Spec. Pub. 66, 19 (1926).*

**Go-West**

(M. J. FORSELL &amp; CO., SEATTLE, WASH.)

	Guaranteed	Found
Calcium arsenate . . . . .	5.00	5.40

*Oreg. Agr. Expt. Sta., Cir. 84, 15 (1927).*

**Grape Dust**

See Hammond's Grape Dust.

**Grasselli Manganar (Manganese Arsenate)**

(GRASSELLI CHEMICAL CO., CLEVELAND, O.)

	Guaranteed	Found
Manganese arsenate [Mn <sub>3</sub> (AsO <sub>4</sub> ) <sub>4</sub> ] . . . . .	68.00	65.75
Total arsenic oxide (As <sub>2</sub> O <sub>5</sub> ) . . . . .	40.00	41.96
Water-soluble arsenic oxide (As <sub>2</sub> O <sub>3</sub> ) . . . . .	0.77	1.69
Total manganese (Mn) . . . . .	....	18.67
Manganese dioxide (Mn O <sub>2</sub> ) . . . . .	....	5.75

*Conn. Agr. Expt. Sta. Sample 3138.*

**Grasselli Sulphuron**

See Sulphur.



**Grasshopper Poison**

(EXCHANGE ORANGE PRODUCTS CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Arsenious oxide . . . . .	16.66	16.63
Arsenic, metal . . . . .	12.00	12.58

(All water-soluble).

*Cal. Dept. Agr., Spec. Pub. 34, 21 (1923).***Grasshopper Poison**

(S. T. KVAMEN, MINOT, N. DAK.)

Found: Total arsenious oxide ( $As_2O_3$ ) 5.8 percent.—*N. Dak., Bul. 42, 120 (1934).*

**Grasshopper Poison**

(SMITH-FRANK PACKING CO., SACRAMENTO, CAL.)

	Guaranteed	Found
Arsenious oxide . . . . .	10.00	14.41
Arsenic metal . . . . .	7.50	10.91

(All water-soluble).

*Cal. Dept. Agr., Spec. Pub. 34, 21 (1923).***Graylawn Farm Louse Chase**

(GRAYLAWN FARMS, INC., NEWPORT, VT.) -

Guaranteed: *Asagraea officinalis* 10 percent; sulphur 30 percent; nicotine not less than 0.5 percent; inert matter 59.50 percent.

Found: Sulphur 32.21 percent; nicotine 0.03 percent; non-volatile alkaloids 1.88 percent. *Sabadilla* alkaloids present. Inert matter mostly calcium hydroxide.

*Conn. Agr. Expt. Sta. Bul. 300, 260 (1929).***Green Cross Basic Copper-Lime Arsenate 20-25-55**

(LUCAS-KILTONE CO., PHILADELPHIA, PA.)

	Guaranteed	Found
Total arsenic, metal . . . . .	6.50	7.01
Water-soluble arsenic, metal . . . . .	0.50	0.12
Copper . . . . .	7.00	7.61

*N. J. Agr. Expt. Sta., Bul. 594, 12 (1935).***Green Cross Beetle Mort**

(LUCAS-KIL-TONE CO., VINELAND, N. J.)

	Guaranteed	Found
Total arsenic, metal . . . . .	18.00	18.53
Water-soluble arsenic, metal . . . . .	1.00	0.12
Copper . . . . .	5.00	5.90

*N. J. Agr. Expt. Sta., Bul. 459, 12 (1927).***Green Cross Beetle Mort Special Dusting Formula**

(LUCAS-KIL-TONE CO., VINELAND, N. J.)

	Guaranteed	Found
Total arsenic, metal . . . . .	6.00	7.17
Water-soluble arsenic, metal . . . . .	0.20	0.11
Copper . . . . .	9.00	10.52

*N. J. Agr. Expt. Sta., Bul. 513, 12 (1930).***Green Cross Bordo Arsenate Dust Special***See Bordeaux Mixture-Lead Arsenate.*

## Composition of Commercial Insecticides

### Green Cross Calcium Arsenate-Copper-Lime Dust 20-20-60

(LUCAS-KIL-TONE-CO., VINELAND, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	5.20	6.00
Water-soluble arsenic, metal.....	0.25	0.32
Copper.....	6.00	7.04

*N. J. Agr. Expt. Sta., Bul. 548, 12-13 (1932).*

### Green Cross Copper Lime Calcium Arsenate Dust

(LUCAS-KIL-TONE CO., VINELAND, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	8.10	9.06
Copper.....	10.74	10.72

*Maine Agr. Expt. Sta., Official Inspections 142, 116 (1931).*

### Green Cross Copper, Lime, Calcium Arsenate Dust 20-55-25

(LUCAS-KIL-TONE CO., VINELAND, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	6.50	8.17
Water-soluble arsenic, metal.....	0.50	0.19
Copper.....	6.00	6.04

*N. J. Agr. Expt. Sta., Bul. 530, 12 (1931).*

### Green Cross Copper Lime Dust

*See Bordeaux Mixture.*

### Green Cross Copper-Lime Dust 20-55-25

(LUCAS-KIL-TONE CO., VINELAND, N. J.)

Found: \*Total arsenic (metal) 6.80 percent; water-soluble arsenic (metal) 0.20 percent; copper 7.00 percent.—*N. J. Agr. Expt. Sta., Bul. 548, 13 (1932).*

### Green Cross Ferrofilm

(LUCAS-KIL-TONE CO., VINELAND, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	18.50	19.61
Water-soluble arsenic, metal.....	0.06	0.07

*N. J. Agr. Expt. Sta., Bul. 478, 10 (1928).*

### Green Cross Fruit Kil-Tone

(LUCAS-KIL-TONE CO., VINELAND, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	14.00	15.78
Copper.....	5.25	7.18

*Maine Agr. Expt. Sta., Official Inspections 146, 134 (1932).*

### Green Cross Kil-Tone Paste

(LUCAS-KIL-TONE CO., VINELAND, N. J.)

	Guaranteed	Found
Water.....	.....	50.00
Total arsenic, metal.....	3.90	4.63
Water-soluble arsenic, metal.....	0.50	0.08
Copper.....	4.25	6.13

*N. J. Agr. Expt. Sta., Bul. 513, 13 (1930).*

### Green Cross Nico-Tone

(LUCAS-KIL-TONE CO., VINELAND, N. J.)

	Guaranteed	Found
Nicotine.....	2.75	2.86

*N. J. Agr. Expt. Sta., Bul. 459, 7 (1927).*

**Green Cross P. B. K.**

(LUCAS-KIL-TONE CO., VINELAND, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	21.00	20.23
Water-soluble arsenic, metal.....	1.00	0.16
Copper.....	6.00	11.72

*N. J. Agr. Expt. Sta., Bul. 459, 12 (1927).***Green Cross 22% Cloros***See Bordeaux Mixture.***Green Garden Dust**

(ANSBACHER SIEGLE CORP., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	5.00	5.60
Copper.....	3.00	6.90

*Maine Agr. Expt. Sta., Official Inspections 150, 122 (1933).***Green Label Hydroxide Paste***See Mechling.***Green Life***See Nicotine Dusts.***Gregory's Special Ant Syrup**

(GREGORY INSECTICIDE CO., BERKELEY, CAL.)

Guaranteed: Arsenic 2.56 percent.

Found: Arsenious oxide 1.01 percent; arsenic metal 0.77 percent; cane sugar 18.45 percent; water 77.72 percent.

*Cal. Dept. Agr., Spec. Pub. 58, 16 (1925).***Gregory's Standard Ant Destroyer**

(GREGORY INSECTICIDE CO., BERKELEY, CAL.)

	Guaranteed	Found
Invert sugar.....	2.00	1.57
Cane sugar.....	38.00	20.78
Water.....	56.00	76.21
Tartar emetic.....	....	1.74

*Cal. Dept. Agr., Spec. Pub. 58, 18 (1925).***Gro-All Kayso Dry Mix**

(CENTRAL CHEMICAL CO., INC., BALTIMORE, MD.)

	Guaranteed	Found
Sulphur.....	64.00	61.66

*N. J. Agr. Expt. Sta., Bul. 594, 7 (1935).***Gulf Venom**

(GULF REFINING CO., PITTSBURGH, PA.)

Found: Kerosene base containing methyl salicylate.—*Maine Agr. Expt. Sta., Official Inspections 142, 118 (1931).***Gwin's Citrus Spray***See Oil Emulsions, Mineral.***H****Hall's Lightning Squirrel and Gopher Poison***See Strychnine Preparations.*

**Hall's Nicotine Sulphate Solution**

See Nicotine Sulphate Solutions.

**Hammond's Copper Solution**

(HAMMOND'S SLUG SHOT WORKS, BEACON, N. Y.)

	Guaranteed	Found
Copper .....	3.05	3.70

*N. J. Agr. Expt. Sta., Bul. 441, 11 (1926).*

**Hammond's Grape Dust**

(HAMMOND'S PAINT &amp; SLUG SHOT WORKS, BEACON, N. Y.)

	Guaranteed	Found
Sulphur .....	64.00	63.87
Cupric oxide .....	0.7969	0.87
Nicotine .....	trace	present
Passing 100 mesh sieve .....	....	98.00
Passing 200 mesh sieve .....	....	88.00

*Cal. Dept. Agr., Spec. Pub. 58, 50 (1925).*

**Hammond's Tobacco Extract**

(HAMMOND'S SLUG SHOT WORKS, BEACON, N. Y.)

	Guaranteed	Found
Nicotine .....	4.00	3.76

*N. J. Agr. Expt. Sta., Bul. 372, 16 (1922).*

**Handy Killer**

(R. B. ADAMS, MONTICELLO, ME.)

Guaranteed: Arsenate of soda; arsenic (metal) 20 percent.

Found: Total arsenic (metal) 20.79 percent.—*Maine Agr. Expt. Sta., Official Inspections 150, 124 (1933).***Hay's "Bite-No."**

(H. H. HAY SONS, PORTLAND, MAINE)

Found: The preparation is an oil containing citronella.—*Maine Agr. Expt. Sta., Official Inspections 134, 115 (1929).***Hay's Black Fly Lotion**

(H. H. HAY SONS, PORTLAND, MAINE)

Found: The preparation is an oil containing oil of tar and citronella.—*Maine Agr. Expt. Sta., Official Inspections 134, 115 (1929).***Hay's "Exit" Bug Fluid**

(H. H. HAY SONS, PORTLAND, MAINE)

Found: The preparation is a mixture of gasoline and oil of tar.—*Maine Agr. Expt. Sta., Official Inspections 134, 115 (1929).***Hay's "Exit" Bug Powder**

(H. H. HAY SONS, PORTLAND, MAINE)

Found: Borax present.—*Maine Agr. Expt. Sta., Official Inspections 134, 115 (1929).***He-Bo**

(STERLING CHEMICAL CO., CAMBRIDGE, MASS.)

	Guaranteed	Found
Barium carbonate .....	36.00	34.41
Total arsenic, metal .....	2.00	1.35
Water-soluble arsenic, metal .....	0.30	0.12

*Conn. Agr., Expt. Sta., Bul. 242, 159 (1922).*

**Hellebore**

See Table XIII.

**Herbicide**

(READE MFG. CO., JERSEY CITY, N. J.)

Found: Solids 31.09 percent; arsenious oxide 24.30 percent; sodium arsenite (NaAsO<sub>2</sub>), 31.90 percent. A green alkaline solution.

*Conn. Agr. Expt. Sta., Bul. 258, 376 (1924).*

**Herbicide (Concentrate) Arsenic**

(STRAUSS-LASHER LABORATORIES, LOS ANGELES, CAL.)

Found: Baumé gravity 50.40; arsenious oxide none; arsenic oxide 43.99 percent. The preparation is a solution of arsenic acid.

*Cal. Dept. Agr., Spec. Pub. 51, 17 (1925).*

**Hercules Carbolic Acid**

See Phenol.

**Herold Poultry Worm Capsules**

	Guaranteed	Found
Nicotine.....	15.00	15.05

*Cal. Dept. Agr., Spec. Pub. 75, 35 (1927).*

**Hexol**

(SANITARY SUPPLY CO., SAN FRANCISCO, CAL.)

Guaranteed: Water 20.00 percent.

Found: Soap 14.20 percent; oils 61.80 percent; water 23.40 percent. Probably a pine oil preparation.

*Cal. Dept. Agr., Spec. Pub. 75, 59 (1927).*

**Hexpo**

See Bordeaux Mixture-Lead Arsenate.

**Hirschey's Ant Control**

(HIRSCHEY'S ANT CONTROL)

Found: Arsenic 0.04 percent.

*Cal. Dept. Agr., Spec. Pub. 75, 24 (1927).*

**Hirschey's P. D. Q. Argentine Ant Solution**

(HIRSCHEY'S ANT CONTROL)

	Guaranteed	Found
Arsenic, metal.....	0.05	0.04

*Cal. Dept. Agr., Spec. Pub. 66, 19 (1926).*

**Hi-Test Pyrethrum Insect Powder**

See Pyrethrum.

**Hi-Test Sheep Dip**

(PURITY CHEMICAL PRODUCTS CO.)

	Guaranteed	Found	Guaranteed	Found
Phenols.....	10.00	21.66	10.00	16.36
Soap.....	.....	20.00	.....	23.70
Mineral oils.....	.....	26.60	.....	.....
Non-mineral oils.....	.....	22.71	.....	45.29
Water.....	.....	8.00	.....	10.30

*Cal. Dept. Agr., Spec. Pub. 101, 74 (1930).*

**Hockwald's Carbolicide**

(HOCKWALD CHEMICAL CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Water.....	1.00	0.05

*Cal. Dept. Agr., Spec. Pub. 75, 66 (1927).*

**Hockwald's Chloricide**

(HOCKWALD CHEMICAL CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Available chlorine.....	4.00	8.55

*Cal. Dept. Agr., Spec. Pub. 101, 80 (1930).*

**Hockwald's Creosote Oil**

(HOCKWALD CHEMICAL CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Oil.....	58.00	.....
Phenols.....	40.00	43.60
Water.....	2.00	3.00
Baumé gravity of oil.....	.....	1.20
Unsulphonated oil.....	.....	1.80

*Cal. Dept. Agr., Spec. Pub. 58, 46 (1925).*

**Hockwald's Sheep Dip**

See Phenol Soap Solutions.

**Holly Brand Lye**

(CLIPPER CHEMICAL CO., INC., LOS ANGELES, CAL.)

	Guaranteed	Found
Sodium hydroxide.....	94.00	93.60
Sodium carbonate.....	2.00	1.60

*Cal. Dept. Agr., Spec. Pub. 101, 83 (1930).*

**Holmerden Weed Destroyer**

(THE HOLMERDEN CO., STRATFORD, CONN.)

Found: Sodium arsenate 46.25 percent.—*Maine Agr. Expt. Sta., Official Inspections 134, 115 (1929).*

**Hooper's Fatal Food**

(UNITED DRUG CO., BOSTON, MASS.)

	Guaranteed	Found
Sodium fluoride.....	25.00	22.40
Inert.....	75.00	.....

*Maine Agr. Expt. Sta., Official Inspections 142, 120 (1931).*

**Hydrated Lime (Bull Dog Brand)**

(THE DOMINION LIME CO., LIME RIDGE, QUEBEC, CANADA)

Found: Calcium oxide 74 percent.—*Maine Agr. Expt. Sta., Official Inspections 130, 116 (1928).*

**Hydrated Lime**

See also Lime, Hydrated and Niagara Hydrated Lime.

**Hydro-Cy**

See Hydrocyanic Acid.

**Hydrocyanic Acid**

See Table XIV, page 690.

**Hydro-Prussic Acid**

See Hydrocyanic Acid.

**Hydroxide Double Duty Spray**

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Total arsenic, metal . . . . .	12.50	15.12
Copper . . . . .	12.75	14.20

*Maine Agr. Expt. Sta., Official Inspections 150, 122 (1933).*

**Hydroxide Paste**

(MECHLING BROS. MFG. CO., CAMDEN, N. J.)

	Guaranteed	Found
Total arsenic, metal . . . . .	6.50	4.90
Water-soluble arsenic, metal . . . . .	0.75	0.07
Copper . . . . .	5.00	4.89
Water . . . . .	. . . .	64.84

*N. J. Agr. Expt. Sta., Bul. 407, 14 (1924).*

**Hydroxide Powder**

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Total arsenic, metal . . . . .	12.50	16.33
Water-soluble arsenic, metal . . . . .	1.50	0.23
Copper . . . . .	12.50	12.92

*N. J. Agr. Expt. Sta., Bul. 459, 12 (1927).*

**Hydroxide**

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Calcium arsenate . . . . .	Present	. . . .
Total arsenic, metal . . . . .	12.5	15.90
Water-soluble arsenic, metal . . . . .	1.5	1.10
Copper . . . . .	12.75	13.84

*Maine Agr. Expt. Sta., Official Inspections 154, 136 (1934).*

**Hyp-O-Sol**

(BRAUN-KNECHT-HEIMANN CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Available chlorine . . . . .	4.50	3.75

*Cal. Dept. Agr., Spec. Pub. 101, 80 (1930).*

**I**

**Igepon A. P. Ex. Conc.**

(GENERAL DYESTUFF CORPORATION, NEW YORK, N. Y.)

Found: Water 1.3 percent; sodium chloride 12.13<sub>2</sub> percent.—*Conn. Agr. Expt. Sta., Sample 975.*

**Igepon T Gel**

(GENERAL DYESTUFF CORPORATION, NEW YORK, N. Y.)

Found: Water 74.8 percent.—*Conn. Agr. Expt. Sta., Sample 974.*

**Impeco Brand Nicotine Sulphur Dust**

*See Nicotine-Sulphur Dusts.*

## Composition of Commercial Insecticides

### Impco Complete Garden Dust

(INTERNATIONAL MILLING CO.)

	Guaranteed	Found
Nicotine.....	0.50	0.52
Sulphur.....	25.00	27.82
Arsenic oxide.....	.....	4.11
Lead oxide.....	.....	5.75
Passing 100 mesh.....	.....	85.00
Passing 200 mesh.....	.....	66.00

*Cal. Dept. Agr., Spec. Pub. 58, 26 (1925).*

### Impco Extra Strong Insecticide Dust

#### Impco Insecticide Dust

#### Impco Poultry Tobacco Dust Worm Cure

#### Impco Strong Insecticide Dust

See Nicotine Dusts.

#### Imperial Lice and Mite Remedy

See Lime-Sulphur.

#### Imperial Sheep Dip

See Phenol Soap Solutions.

#### Imperial Spray Emulsion

See Oil Emulsions, Mineral.

### Improved Kil-Tone

(THE KIL-TONE CO., VINELAND, N. J.)

(See also Green Cross Fruit Kil-Tone; Green Cross Kil-Tone Paste.)

	Guaranteed	Found
Total arsenic, metal.....	5.80	7.48
Water-soluble arsenic, metal.....	0.50	0.19
Copper.....	2.45	2.14

*N. J. Agr. Expt. Sta., Bul. 407, 13 (1924).*

### Individual Single Treatment for Round Worms

(AN-FO MFG. CO., OAKLAND, CAL.)

	Guaranteed	Found
Nicotine.....	15.00	15.61

*Cal. Dept. Agr., Spec. Pub. 75, 35 (1927).*

### Insecticide

(A. ST. LEGER, LAGO MAGGIORE, ITALY.)

A dark-colored odoriferous liquid, strongly alkaline; a sulphonated tar oil neutralized with ammonia and apparently containing "Rotenone", the active principle of derris.

*Canada Dept. Agr., Div. Chem., Rept. Dominion Chemist (1928).*

### Insecticide for Roaches

(MANUFACTURER UNKNOWN.)

Found: Base is kerosene (b. pt. 160-238° C.) Methyl salicylate and probably phenol present.—*Conn. Agr. Expt. Sta., Sample 2773.*

### Insecticine

(AMTORG TRADING CORP., NEW YORK, N. Y.)

Preparation is a 1.81 percent solution of nicotine in kerosene, dyed red.—*Conn. Agr. Expt. Sta., Sample 7173.*



**Insecto**

See Bordeaux Mixture-Lead Arsenate.

**Insecto No. 1**

See Oil Emulsions, Mineral.

**Insect Powder**

See Pyrethrum.

**Insectrogen**

(CHEMICAL PRODUCTS DIVISION, ROSE MFG. CO., PHILADELPHIA, PA.)

	Guaranteed	Found
Total arsenic, metal . . . . .	1.75	2.69
Water-soluble arsenic, metal . . . . .	0.15	0.27
Lead arsenate (PbHAsO <sub>4</sub> ) . . . . .	10.53	12.47
Nickel . . . . .	0.47	0.44
Soap . . . . .	13.05	10.89
Inert matter . . . . .	73.95	

Conn. Agr. Expt. Sta., Bul. 300, 267 (1929).

**International Louse Killer**

(INTERNATIONAL STOCK FOOD CO., MINNEAPOLIS, MINN.)

	Guaranteed	Found
Sodium fluoride . . . . .	10.00	9.81
Nicotine . . . . .	0.035	present
Sulphur . . . . .	0.320	
Naphtholin . . . . .	0.825	
Inert . . . . .	88.820	

Maine Agr. Expt. Sta., Official Inspections 130, 116 (1928).

**Iricide**

(GRING'S IRICIDE CO., BERKELEY, CAL.)

	Guaranteed	Found
Arsenic . . . . .	0.10	0.15

Cal. Dept. Agr., Spec. Pub. 75, 24 (1927).

**J**

**Japtox**

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Total arsenic, metal . . . . .	7.80	13.28
Water-soluble arsenic, metal . . . . .	0.50	0.78

N. J. Agr. Expt. Sta., Bul. 594, 14 (1935).

**Jeb1**

(J. H. RICE, ASHTABULA, OHIO.)

Guaranteed: Nicotine 0.80 percent; inert matter 99.20 percent.

Found: Nicotine 1.08 percent; water and volatile matter 79.29 percent; solids 20.71 percent; ash 7.85 percent.

Conn. Agr. Expt. Sta., Bul. 242, 154 (1922).

**Jenning's Soluble Pine Oil**

(SANITARY SUPPLY CO.)

	Guaranteed	Found
Soap . . . . .	....	12.10
Water . . . . .	....	34.80
Pine Oil . . . . .	55.00	53.32

Cal. Dept. Agr., Spec. Pub. 75, 55 (1927).

## Composition of Commercial Insecticides

### Jersey Dry Mix

(ANSBACHER-SIEGLE CORP., NEW YORK, N. Y.)

Found: Sulphur 64.26 percent.—*N. J. Agr. Expt. Sta., Bul. 548, 8 (1932).*

### Jersey Dry Mix

(INTERSTATE CHEMICAL MFG. CO., JERSEY CITY, N. J.)

	Guaranteed	Found
Sulphur.....	64.00	58.09

*N. J. Agr. Expt. Sta., Bul. 577, 8 (1934).*

### Jersey Dry Mix

(SHERWIN-WILLIAMS CO., CLEVELAND, O.)

Found: Sulphur 60.20 percent.—*N. J. Agr. Expt. Sta., Bul. 530, 8 (1931).*

### Jersey Formula Dry Mix

(A. HENNIGER, PATERSON, N. J.)

	Guaranteed	Found
Sulphur.....	64.00	59.75

*N. J. Agr. Expt. Sta., Bul. 513, 7 (1930).*

### J. & M. Reliable Insecticide

See Soaps.

### Judson's Nicotine Sulphate 40%

See Nicotine Sulphate Solution.

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## K

### Kalibor

(NITRATE AGENCIES CO., BAYONNE, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	18.20	18.18
Water-soluble arsenic, metal.....	0.75	0.12
Copper.....	3.50	3.51

*N. J. Agr. Expt. Sta., Bul. 459, 15 (1927).*

### Kalinex

See Orchard Kalinex.

### Kalite Insecticide

(BEECH & CO., BOSTON, MASS.)

	Guaranteed	Found
Sodium fluosilicate.....	18.5	20.17
Sulphur.....	19.	18.62

*Maine Agr. Expt. Sta., Official Inspections 146, 133 (1932).*

### Kamforite "H"

(HENEMAN BROS., HORNCastle, ENGLAND.)

Claimed to be a combined pest destroyer, fumigant and fertilizer.

Found: Naphthalene 25.41 percent; nitrogen 0.25 percent; phosphoric anhydride 4.33 percent; potassium none. Ground bone, soot, lime and iron.  
*Canada Dept. Agr., Div. Chem., Rept. Dominion Chemist (1928).*

### Karspray

See Phenol Soap Solutions.

**Kasulime**

(NITRATE AGENCIES CO., BAYONNE, N. J.)

Guaranteed: Sulphur 60.00 percent.

Found: Sulphur 49.82 percent; coarser than 100 mesh, 2.15 percent; passing 100 mesh sieve, 86.35 percent; 200 mesh 10.25 percent; 300 mesh 1.25 percent.

*N. J. Agr. Expt. Sta., Bul. 459, 8 (1927).***Kazol***See Oil Emulsions, Mineral.***Kellogg's Ant Paste**

(JOHNSON, CARVELL &amp; MURPHY, LOS ANGELES, CAL.)

	Guaranteed	Found
Arsenic . . . . .	6.00	8.26

*Cal. Dept. Agr., Spec. Pub. 101, 20 (1930).*

**Keresol****Kerosene Emulsion***See Oil Emulsions, Mineral.***Key Brand Ansect**

(INTERSTATE CHEMICAL CO., JERSEY CITY, N. J.)

Found: The preparation is a soap solution.—*Maine Agr. Expt. Sta., Official Inspections 134, 115 (1929).***Key Brand B. A. Cartridges**

(INTERSTATE CHEMICAL CO., JERSEY CITY, N. J.)

	Guaranteed	Found
Total arsenic, metal . . . . .	4.50	6.39
Water-soluble arsenic, metal . . . . .	0.75	0.68
Copper . . . . .	9.00	10.14

*N. J. Agr. Expt. Sta., Bul. 424, 13 (1925).*

**Key Brand B. Beetle Destroyer**

(INTERSTATE CHEMICAL CO., JERSEY CITY, N. J.)

	Guaranteed	Found
Total arsenic, metal . . . . .	14.00	19.40
Water-soluble arsenic, metal . . . . .	1.00	0.20
Copper . . . . .	5.00	5.02

*N. J. Agr. Expt. Sta., Bul. 459, 11 (1927).*

**Key Brand Fish Oil Soap***See Soaps.***Key Brand Kay B. Beetle Destroyer**

(INTERSTATE CHEMICAL CO., JERSEY CITY, N. J.)

	Guaranteed	Found
Total arsenic, metal . . . . .	14.00	18.36
Water-soluble arsenic, metal . . . . .	1.00	0.11
Copper . . . . .	5.00	7.80

*N. J. Agr. Expt. Sta., Bul. 485, 11 (1929).*

**Key Brand Key B.**

(INTERSTATE CHEMICAL CO., JERSEY CITY, N. J.)

	Guaranteed	Found
Total arsenic, metal . . . . .	14.00	18.90
Water-soluble arsenic, metal . . . . .	1.00	1.21
Copper . . . . .	5.00	4.93

*N. J. Agr. Expt. Sta., Bul. 441, 12 (1926).*

**Key Brand L. A. S. Cartridge**

(INTERSTATE CHEMICAL CO., JERSEY CITY, N. J.)

	Guaranteed	Found
Total arsenic, metal . . . . .	....	2.78
Water-soluble arsenic, metal . . . . .	....	0.07
Sulphur . . . . .	60.00	58.98

*N. J. Agr. Expt. Sta., Bul. 485, 12 (1929).***Key Brand Nicotine Contact Dust***See Nicotine Dusts.***Key Brand No. 7 Key Green**

(INTERSTATE CHEMICAL CO., JERSEY CITY, N. J.)

	Guaranteed	Found
Total arsenic, metal . . . . .	15.00	16.02
Water-soluble arsenic, metal . . . . .	3.00	0.34
Copper . . . . .	....	17.33

*N. J. Agr. Expt. Sta., Bul. 441, 12 (1926).***Key Brand Ofloro Cartridges**

(INTERSTATE CHEMICAL CO., JERSEY CITY, N. J.)

	Guaranteed	Found
Total arsenic, metal . . . . .	2.26	4.06
Water-soluble arsenic, metal . . . . .	0.75	0.20
Lead oxide . . . . .	....	9.79
Sulphur . . . . .	36.00	34.25

*N. J. Agr. Expt. Sta., Bul. 372, 19 (1922).***Key-Cide***See Bordeaux Mixture-Lead Arsenate.***Keystone Brand 30-70 Copper, Lime Dust****Keystone Brand 20-80 Copper, Lime Dust****Keystone Brand 25-75 Copper, Lime Dust***See Bordeaux Mixture.***K-G Ant Poison**

(KIRK-GEARY CO., SACRAMENTO, CAL.)

Guaranteed: Arsenic 0.10 percent.

Found: Arsenic 0.13 percent; invert sugar 39.50 percent; cane sugar 19.38 percent; dextrin, etc., 4.22 percent; water 35.01 percent.

*Cal. Dept. Agr., Spec. Pub. 58, 16 (1925).***Kiku Dust Special Mix No. 500**

(PACIFIC COAST CHEMICAL CO.)

Guaranteed: Nicotine 0.40 percent; pyrethrum insecticide 12.00 percent.

Found: Nicotine 0.96 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 35 (1930).***Kiku Dust Special No. 100**

(PACIFIC COAST CHEMICAL CO.)

Guaranteed: Nicotine 1.40 percent; pyrethrum insecticide 4.00 percent.

Found: Nicotine 1.55 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 35 (1930).***Kill-A-Mite**

(GRANT-ERICSON CO., SAN DIEGO, CAL.)

Guaranteed: Carbolic acid a certain percent, inert matter none.

Found: Oils 94.11 percent; phenol 1.84 percent; free sulphur 2.17 percent; water 1.40 percent.

*Cal. Dept. Agr., Spec. Pub. 51, 60 (1925).*

**Kill 'Em Fluid**

(BREWER &amp; CO., INC., WORCESTER, MASS.)

Guaranteed: Active ingredients 100 percent.

Found: Carbon tetrachloride and phenol in a kerosene base.—*Maine Agr. Expt. Sta., Official Inspections* 134, 115 (1929).**Kill Hopper**

(GERMAIN SEED &amp; PLANT CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Arsenic.....	12.00	12.78
<i>Cal. Dept. Agr., Spec. Pub.</i> 75, 26 (1927).		

**Kills-A-Bug**

(SUPERL MANUFACTURING CO., LOS ANGELES, CAL.)

Found: Trace of water present.—*Cal. Dept. Agr., Spec. Pub.* 101, 84 (1930).**Kill-Well Worm Expeller**

(CHICKEN PHARMACY, PETALUMA, CAL.)

	Guaranteed	Found
Water.....	54.00	76.60
<i>Cal. Dept. Agr., Spec. Pub.</i> 75, 64 (1927).		

**Kilmol Squirrel-gophene**

See Carbon Disulphide.

**Kilsants Ant Paste**

(BRUNSWIG DRUG CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Arsenic.....	7.82	9.38
<i>Cal. Dept. Agr., Spec. Pub.</i> 101, 20 (1930).		

**Kil Sect**

See Arsenate of Lead.

**Kilsnayl**

(CALIFORNIA COPPER PRODUCER'S TRUST)

	Guaranteed	Found
Ferrous sulfate (FeSO <sub>4</sub> ).....	20.00	31.20
Ferric sulfate [Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> ].....	20.00	30.37
Copper sulfate (CuSO <sub>4</sub> ).....	45.00	3.48
<i>Cal. Dept. Agr., Spec. Pub.</i> 101, 85 (1930).		

**Kilto**

See Allen's Kilto Paste.

**Kil-Tone, Improved**

See Improved Kil-Tone.

**Kil-Tone, Modified**

See Bordeaux Mixture.

**Kil-Ve**

(SCHWARZ DRUGGISTS, INC., NEWARK, N. J.)

Found: Volatile at 100° C., 98.45 percent; non-volatile 1.55 percent.—*Maine Agr. Expt. Sta., Official Inspections* 134, 115 (1929).**King Pin Brand Lye**

(SINCLAIR MANUFACTURING CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Sodium hydroxide.....	94.00	93.60
Sodium carbonate.....	2.00	2.12
<i>Cal. Dept. Agr., Spec. Pub.</i> 101, 83 (1930).		

*Composition of Commercial Insecticides*

**Kirk Geary Dipsol Sheep Dip**

See Phenol Soap Solutions.

**Kisants**

(BRUNSWIG DRUG CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Arsenious oxide.....	11.00	7.78
Arsenic, metal.....	8.60	5.89

*Cal. Dept. Agr., Spec. Pub. 58, 16 (1925).*

**Kleanup Emulsion—March 13**

See Oil Emulsions, Mineral.

**Kleanup Oil**

**Kleanup Oil Stock**

See Oils, Mineral.

**Kliko Disinfectant**

(COLUMBIA SOAP CO., SAN FRANCISCO, CAL.)

Guaranteed: Water 12.00 percent.

Found: Total oils 65.09 percent; soap 24.09 percent; water 10.00 percent; sample is a pine oil preparation.—*Cal. Dept. Agr., Spec. Pub. 101, 77 (1930).*

**Kliko Insecticide**

(COLUMBIA SOAP CO., SAN FRANCISCO, CAL.)

No analysis.—*Cal. Dept. Agr., Spec. Pub. 101, 84 (1930).*

**Kliko Roach Powder**

(COLUMBIA SOAP CO., SAN FRANCISCO, CAL.)

Guaranteed: Sodium fluoride 65.00 percent; pyrethrum 35.00 percent.

Found: Sodium fluoride 60.24 percent; organic matter 35.90 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 78 (1930).*

**Kloral**

(A. R. MAAS CHEMICAL CO.)

	Guaranteed	Found
Available chlorine.....	5.00	4.18

*Cal. Dept. Agr., Spec. Pub. 75, 61 (1927).*

**K. M. G. Kills Morning Glory**

(WEED CONTROL CO. OF CALIFORNIA, BERKELEY, CAL.)

	Guaranteed	Found
Arsenic chloride (AsCl <sub>3</sub> ).....	5.00	8.02
Arsenic acid (H <sub>3</sub> AsO <sub>4</sub> ).....	....	4.79

*Cal. Dept. Agr., Spec. Pub. 66, 18 (1926).*

**K O I L Creosote Stock Dip**

See Phenol Soap Solutions.

**Kolodust**

**Kolofog**

See Sulphur.

**Koloform**

**Kolokil**

**Kolo-Peach**

**Kolo-Pome**

**Koloten**

**Kolotex**

See Niagara.

**Krelos**

See Phenol Soap Solutions.

**Krenol Dip**

See Phenol Soap Solutions.

**Kreo-Phene Crude Carbohc Acid**

See Phenol.

**Kreso Dip No. 1**

See Phenol Soap Solutions.

**K. R. O.**

(K. R. O. CO., SPRINGFIELD, OHIO.)

Found: The preparation is red squill.—*Maine Agr. Expt. Sta., Official Inspections* 134, 115 (1929).

**Ku-Ba-Tox**

(ANSBACHER-SIEGLE CORP., NEW YORK, N. Y.)

	Guaranteed	Found
Rotenone.....	0.275	0.302
<i>Maine Agr. Expt. Sta., Official Inspections</i> 150, 124 (1933).		

**L**

**L. A. Dust No. 26**

(LOS ANGELES INSECTICIDE CO.)

	Guaranteed	Found
Nicotine.....	2.00	2.44
Total arsenic.....	3.80	4.28
Water-soluble arsenic.....	0.50	0.19
<i>Cal. Dept. Agr., Spec. Pub.</i> 101, 33 (1930).		

**L. A. Dust No. 28**

(LOS ANGELES INSECTICIDE CO.)

	Guaranteed	Found
Nicotine.....	3.00	2.48
Total arsenic.....	3.80	3.70
Water-soluble arsenic.....	0.50	0.15
<i>Cal. Dept. Agr., Spec. Pub.</i> 101, 33 (1930).		

**Lambert Death to Lice**

(THE KLEIN LAMBERT CO., CHICAGO, ILL.)

Guaranteed: Nicotine not less than 0.5 percent; creosote oil not less than 0.6 percent; inert not more than 98.9 percent.

Found: Nicotine and creosote oil present.—*Maine Agr. Expt. Sta., Official Inspections* 130, 116 (1928).

**Larkspur Lotion**

(BREWER & CO., INC., WORCESTER, MASS.)

Found: The preparation is an aqueous larkspur lotion. Volatile at 100° C., 97.87 percent; non-volatile, 2.13 percent.—*Maine Agr. Expt. Sta., Official Inspections* 134, 115 (1929).

**Larvex**

(LARVEX CORP., BROOKLYN, N. Y.)

Guaranteed: Sodium aluminum silicofluoride 0.52 percent; inert matter 99.48 percent.

Found: Total solids 0.89 percent; fluorine 0.41 percent; silica 0.15 percent; aluminum oxide 0.02 percent; sodium and organic matter 0.40 percent.

*North Dakota, Bul. 17, 52 (1927).*

**Lead Arsenate**

See Niagara Arsenate of Lead.

**Lead Arsenate—Bordeaux Mixture**

See Bordeaux Mixture—Lead Arsenate.

**Lead Arsenate Dust No. 21**

(CALIFORNIA SPRAY CHEMICAL CO.)

	Guaranteed	Found
Arsenic pentoxide (As <sub>2</sub> O <sub>5</sub> ) . . . . .	6.00	6.04
<i>Cal. Dept. Agr., Spec. Pub. 101, 22 (1930).</i>		

**Lead Phenate**

(These are experimental preparations made by Dr. Friend of the Entomology Department of the Connecticut Agricultural Experiment Station.)

Sample No.	3351	7523	8257
Lead oxide . . . . .	62.64	62.00	66.23
Phenol . . . . .	31.61	38.82	33.25
Water . . . . .	2.65	. . . .	0.05

Sample 8257 corresponds approximately to the formula 6PbO. 7C<sub>6</sub>H<sub>5</sub>OH.

*Conn. Agr. Ezpt. Sta., Bul. 300, 271 (1929).*

**Lectro Bleach**

(GREAT WESTERN ELECTRO-CHEMICAL CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Available chlorine . . . . .	16.00	14.21
<i>Cal. Dept. Agr., Spec. Pub. 101, 80 (1930).</i>		

**Lee's Dip**

See Phenol Soap Solutions.

**Lee's Louse Powder**

(GEO. H. LEE CO., OMAHA, NEB.)

	Guaranteed	Found
Naphthalene . . . . .	2.00	0.60
Free sulphur . . . . .	43.00	43.80
Pyrethrum . . . . .	2.00	. . . .
Sodium fluoride . . . . .	3.00	3.01

*Cal. Dept. Agr., Spec. Pub. 75, 40 (1927).*

**Leinen's Mildew Go**

(BAY CITY SEED CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Free sulphur . . . . .	75.00	73.34
Calcium hydroxide . . . . .	25.00	23.84

*Cal. Dept. Agr., Spec. Pub. 34, 57 (1923).*

**Leinen's Poisoned Barley**

See Strychnine Preparations.



**Leinen's Rat-Go**

(JOHN F. LEINEN CHEMICAL CO.)

Guaranteed: Active ingredients 97.50 percent; barium sulphate 0.30 percent; silica 0.40 percent; water 1.80 percent.

Found: Barium carbonate 98.33 percent.

*Cal. Dept. Agr., Spec. Pub. 75, 66 (1927).***Leinen's Sow-Bug-Co**

(JOHN F. LEINEN CHEMICAL CO., OAKLAND, CAL.)

Guaranteed: Paris Green 12.50 percent.

Found: Arsenic 9.12 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 21 (1930).***Lemon Oil Company's Standard Insecticide**

(GERMAIN SEED &amp; PLANT CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Dry Soap.....	6.00	11.85
Potassium carbonate.....	0.50	1.11
Vegetable oil.....	3.50	7.45
Terebenthine.....	5.00	
Water.....	85.00	79.20

*Cal. Dept. Agr., Spec. Pub. 75, 65 (1927).***Lennox Tobacco Soap***See Nicotine Soaps.***Lice-Go-Powder**

(S. O. BARNES &amp; SON, GARDENA, CAL.)

Guaranteed: Talc 70.00 percent.

Found: Naphthalene 3.71 percent; sodium fluoride 3.30 percent; essential oils present; loss at 400° C., 3.78 percent; water 1.40 percent; talc 11.16 percent; calcium carbonate 70.10 percent; calcium hydroxide 7.62 percent; iron and aluminum oxides 1.10 percent.

*Cal. Dept. Agr., Spec. Pub. 51, 59 (1925).***Licresol****Licresolis***See Phenol Soap Solutions.***Lilacko Spray***See Oils, Mineral.***Lilly Pulvules No. 142**

(ELI LILLY &amp; CO., INDIANAPOLIS, IND.)

	Guaranteed	Found
Nicotine.....	13.00	12.88

*Cal. Dept. Agr., Spec. Pub. 75, 35 (1927).***Lilly's Tobacco Soap Spray**

(THE CHAS. H. LILLY CO.)

	Guaranteed	Found
Nicotine.....	2.00	2.44
Soap.....	6.00	4.13
Water.....	.....	91.50

*Cal. Dept. Agr., Spec. Pub. 101, 38 (1930).***Lime, Chlorinated***See Acme Chlorinated Lime; Sinclair Chieftain Brand Chlorinated Lime.*

**Lime, Hydrated**

(E. M. IVES, MERIDEN, CONN.)

Found: 95 percent passed a 300 mesh sieve.—*Conn. Agr. Expt. Sta., Bul. 346, 231 (1933).*

**Lime, Hydrated**

(THE MILLER CO., STOCKBRIDGE, MASS.)

Found: 84.00 percent passed a 300 mesh sieve.—*Conn. Agr. Expt. Sta., Bul. 300, 273 (1929).*

**Lime, Hydrated**

See also Hydrated Lime (Bull Dog Brand); Niagara Hydrated Lime.

**Limestone, Ground**

(MANUFACTURER UNKNOWN.)

Found: Magnesium oxide 30.86 percent; calcium oxide 45.87 percent.  
*Conn. Agr. Expt. Sta., Bul. 300, 273 (1929).*

**Lime-Sulphur, Dry**

See Table XV, page 691.

**Lime-Sulphur Solution**

See Table XVI, page 693.

**Lion Brand Whale Oil Soap**

See Soaps.

**Liquid Insecticide**

(MERRITT CHEMICAL SPECIALTIES, OAKLAND, CAL.)

	Guaranteed	Found
Petroleum . . . . .	94.00	92.00
Essential oils . . . . .	6.00	present
Water . . . . .	. . . .	none

*Cal. Dept. Agr., Spec. Pub. 34, 58 (1923).*

**Liquid Lice Killer**

See A. R. M. Liquid Lice Killer.

**Liquid Whale Oil Soap**

See Soap.

**Liquor Cresolis**

See Phenol Soap Solutions.

**Lockman's Worm O-Tone**

(KIRK, GEARY & CO.)

	Guaranteed	Found
Water . . . . .	75.00	77.00
Oil . . . . .	. . . .	22.76

*Cal. Dept. Agr., Spec. Pub. 75, 64 (1927).*

**London Purple**

(SHERWIN-WILLIAMS CO., CLEVELAND, O.)

(See also Acme London Purple)

	Guaranteed	Found
Total arsenic, metal . . . . .	21.00	24.08
Water-soluble arsenic, metal . . . . .	1.50	0.75

*Cal. Dept. Agr., Spec. Pub. 75, 27 (1927).*

**Long and Gretter's Squirrel Poison**

See Strychnine Preparations.

**Los Angeles Dust No. 8**

See Nicotine Dusts.

**Lotol**

(GARDEN CHEMICAL CO., NEW YORK, N. Y.)

	Guaranteed	Found
Water.....	40.00	12.20
<i>Cal. Dept. Agr., Spec. Pub. 66, 36 (1926).</i>		

**Lucas Kil-Tone Monohydrated Copper Sulphate**

See Copper Sulphate.

**Luseaux No. 2 for Worms**

(THE LUSEAUX LABORATORIES)

	Guaranteed	Found
Nicotine.....	.....	1.34
Water.....	80.00	73.00
<i>Cal. Dept. Agr., Spec. Pub. 101, 36 (1930).</i>		

**Lye**

See B. T. Babbitt's Concentrated Lye; Fort Industry Brand Lye; Holly Brand Lye; King Pin Brand Lye; Rex Lye.

**M****Maas Mite Spray**

(ARTHUR R. MAAS LABORATORIES, LOS ANGELES, CAL.)

Guaranteed: Water 5.00 percent.

Found: Phenols 17.20 percent; tar oils 24.56 percent; mineral oils 57.54 percent; water 0.10 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 70 (1930).***Maas Sheep Dip**

See Phenol Soap Solutions.

**Maggi's Ant Poison**

(PAUL MAGGI, SANTA CLARA, CAL.)

	Guaranteed	Found
Sodium arsenate.....	0.20	0.26
<i>Cal. Dept. Agr., Spec. Pub. 66, 19 (1926).</i>		

**Maggotbait**

(CHAS. H. LILLY CO., SEATTLE, WASH.)

	Guaranteed	Found
Anthracene oil.....	0.80	1.40
<i>Oreg. Agr. Expt. Sta., Cir. 64, 15 (1925).</i>		

**Magnesium Arsenate**

See Arsenate of Magnesium.

**Magnesium Chloride, Flake**

(DOW CHEMICAL CO., MIDLAND, MICH.)

Found: Magnesium oxide 11.99 percent; magnesium chloride (MgCl<sub>2</sub>-6H<sub>2</sub>O) 60.45 percent. Nearly all water-soluble. Traces of iron, aluminum and calcium present.*Conn. Agr. Expt. Sta., Bul. 300, 281 (1929).*

## Composition of Commercial Insecticides

### Mag-O-Tite

(RANDALL-MC LAUGHLIN, SEATTLE, WASH.)

	Guaranteed	Found
Total arsenic, metal . . . . .	0.06	. . . .
Water-soluble arsenic, metal . . . . .	0.002	0.06
Naphthalene . . . . .	4.39	6.35

*Conn. Agr. Expt. Sta., Bul. 242, 159 (1922).*

### Maine Medina Quality Copper Arsenic Dust

(ARGOSTOOK FARMERS' INSECTICIDE CO., PRESQUE ISLE, ME.)

	Guaranteed	Found
Total arsenic, metal . . . . .	5.94	6.70
Copper . . . . .	7.16	7.44

*Maine Agr. Expt. Sta., Official Inspections 142, 116 (1931).*

### Malloch's Flea Powder

(BRUNSWIG DRUG CO., LOS ANGELES, CAL.)

Guaranteed: Talcum 5.00 percent.  
 Found: Naphthalene 37.64 percent; sulfur 56.23 percent; talcum 4.93 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 85 (1930).*

### Manganese Arsenate

*See Grasselli Manganar.*

### Mapco Liquid Whale Oil Soap

*See Soaps.*

### Mapco Liquor Cresolis Compound U. S. P.

*See Phenol Soap Solutions.*

### Mapco Miscible Oil

*See Oil Emulsions, Mineral.*

### Mapco Nicotine Miscible Oil

(MICHEL & PELTON CO.)

Found: Nicotine 0.90 percent; soap 6.50 percent; phenols 6.00 percent; oils 79.30 percent; water 6.20 percent.

*Cal. Dept. Agr., Spec. Pub. 75, 39, (1927).*

### Mapco Nicotine Spray

(MICHEL & PELTON CO.)

	Guaranteed	Found
Nicotine . . . . .	1.00	1.20
Soap . . . . .	20.00	20.20
Water . . . . .	78.00	75.20
Pine oil . . . . .	1.00	. . . .

*Cal. Dept. Agr., Spec. Pub. 75, 39 (1927).*

### Mapco Rosin Soap for Spray

*See Soaps.*

### Mapco Sheep Dip

*See Phenol Soap Solutions.*

### Mapco Whale Oil Soap

*See Soaps.*

### Marcol

*See Oils, Mineral.*

**Martin Powder for Roaches**

(WALTHAM CHEMICAL CO., WALTHAM, MASS.)

Found: Anhydrous borax 38.93 percent; sodium fluoride 48.26 percent.—  
*Maine Agr. Expt. Sta., Official Inspections 150, 124 (1933).*

**Master Ant Killer**

(JONES PRODUCT CO., MILWAUKEE, WIS.)

	Guaranteed	Found
Sodium arsenate.....	2.00	....
Total arsenic, metal.....	0.70	1.21
Inert.....	98.00	....

*Maine Agr. Expt. Sta., Official Inspections 158, 139 (1935).*

**Marvel Ant Gelatin**

(H. W. MC SPADEN)

	Guaranteed	Found
Arsenious oxide.....	0.10	0.11

*Cal. Dept. Agr., Spec. Pub. 75, 24 (1927).*

**Mattes Ant Paste**

(L. A. MATTES.)

	Guaranteed	Found
Arsenic, metal.....	0.75	0.82

*Cal. Dept. Agr., Spec. Pub. 75, 24 (1927).*

**McClellan's Ant Powder**

(C. U. MC CLELLAN &amp; CO.)

	Guaranteed	Found
Sodium fluoride.....	70.00	71.27
Pyrethrum.....	20.00	....
Organic matter.....	....	15.50

*Cal. Dept. Agr., Spec. Pub. 101, 78 (1930).*

**McClellan's Cartholinium**

(C. U. MC CLELLAN &amp; CO.)

Found: Phenols 9.66 percent; tar oils 76.88 percent; mineral oils 10.00 percent; water 0.05 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 70 (1930).*

**McClellan's Compound Lice Powder containing Sodium Fluoride**

(C. U. MC CLELLAN &amp; CO., SANTA BARBARA, CAL.)

	Guaranteed	Found
Nicotine.....	0.10	0.27
Sulfur.....	26.00	26.46
Phenols.....	1.50	1.60
Sodium fluoride.....	30.00	29.70

*Cal. Dept. Agr., Spec. Pub. 101, 35 (1930).*

**McClellan's Cresolis**

*See Phenol Soap Solutions.*

**McClellan's Delousing Grease**

*See Sodium Fluoride.*

**McClellan's Disinfectant Dip**

*See Phenol Soap Solutions.*

**McClellan's Improved Red Mite and Lice Killer**

(C. M. MC CLELLAN CO.)

Guaranteed: Water 1.00 percent.

Found: Phenols 3.70 percent; tar oils 37.55 percent; mineral oils 58.63 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 71 (1930).*

## Composition of Commercial Insecticides

### McClellan's Moth Nip

(C. U. MC CLELLAN & CO., LOS ANGELES, CAL.)

No analysis.—*Cal. Dept. Agr., Spec. Pub.* 101, 84 (1930).

### McClellan's Moth Nip Block

See Paradichlorbenzene.

### McClellan's Plant Spray

(C. U. MC CLELLAN & CO., LOS ANGELES, CAL.)

Guaranteed: Water 85.00 percent.

Found: Nicotine 1.26 percent; soap 12.37 percent; water 84.00 percent.—*Cal. Dept. Agr., Spec. Pub.* 101, 38 (1930).

### McClellan's Poultry House Spray

(C. U. MC CLELLAN CO.)

Guaranteed: Water: 2.00 percent.

Found: Phenols 13.02 percent; tar oils 81.41 percent; water 3.80 percent.  
*Cal. Dept. Agr., Spec. Pub.* 101, 70 (1930).

### McClellan's Poultry Prescription 999

(C. U. MC CLELLAN & CO., LOS ANGELES, CAL.)

Found: Nicotine 0.66 percent.—*Cal. Dept. Agr., Spec. Bul.* 101, 36 (1930).

### McClellan's Rat Ruin

(C. U. MC CLELLAN & CO. INC., LOS ANGELES, CAL.)

	Guaranteed	Found
Barium carbonate.....	96.00	99.35

*Cal. Dept. Agr., Spec. Pub.* 101, 43 (1930).

### McClellan's Sept-A-Soil

(C. U. MC CLELLAN CO.)

Found: Iodine trace; phenols 2.20 percent; tar oils 30.11 percent; mineral oils 67.70 percent.—*Cal. Dept. Agr., Spec. Pub.* 101, 71 (1930).

### McClellan's Sheep Dip

See Phenol Soap Solutions.

### McClellan's Sodium Fluoride

See Sodium Fluoride.

### McEverlast Sodium Arsenite

(MC RAE PAINT PRODUCTS CO., LOS ANGELES, CAL.)

Found: Arsenic trioxide 28.93 percent.—*Cal. Dept. Agr., Spec. Pub.* 101, 18 (1930).

### McEverlast Termite Gas

(MC RAE PAINT PRODUCTS CO., LOS ANGELES, CAL.)

No analysis.—*Cal. Dept. Agr., Spec. Pub.* 101, 84 (1930).

### McEverlast Termite Special

(MC RAE PAINT PRODUCTS CO., LOS ANGELES, CAL.)

No analysis.—*Cal. Dept. Agr., Spec. Pub.* 101, 84 (1930).

### McNear's Poultry House Spray

See Oils, Mineral.

### F. W. McNess Insect Powder

See Pyrethrum.

**F. W. McNess Krenol Dip & Disinfectant**  
See Phenol Soap Solutions.

**F. W. McNess Lice Powder and Insecticide**

(FURST-MC NESS CO., OAKLAND, CAL.)

	Guaranteed	Found
Nicotine.....	1.00	1.36
Naphthalene.....	9.00	11.90
Sulphur.....	9.50	10.30

*Cal. Dept. Agr., Spec. Pub. 75, 40 (1927).*

**Mealy Bug Spray Oil**

See Oil Emulsions. Mineral.

**Mechling's Dry Mix**

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

Guaranteed: Sulphur 60.00 percent.

Found: Sulphur 60.93 percent; coarser than 100 mesh, 2.23 percent; passes 100 mesh, 97.77 percent; 200 mesh, 25.13 percent; 300 mesh, 3.03 percent.

*N. J. Agr. Expt. Sta., Bul. 459, 8 (1927).*

**Mechling's 85-15 Dusting Mixture**

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	2.60	4.68
Water-soluble arsenic, metal.....	0.50	0.19
Sulphur.....	80.00	79.84

*N. J. Agr. Expt. Sta., Bul. 530, 13 (1931).*

**Mechling's 85 Sulfur, 15 Lead Arsenate Dusting Mixture**

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	3.00	2.93
Water-soluble arsenic, metal.....	0.50	0.15
Sulphur.....	84.00	83.67

*N. J. Agr. Expt. Sta., Bul. 478, 11 (1928).*

**Mechling's Green Label Hydroxide Paste**

(MECHLING BROS. MFG. CO., CAMDEN, N. J.)

	Guaranteed	Found
Water.....	.....	56.30
Total arsenic, metal.....	3.25	2.70
Water-soluble arsenic, metal.....	0.25	0.12
Copper.....	4.50	3.50
Lead oxide.....	.....	9.95

*N. J. Agr. Expt. Sta., Bul. 286, 13 (1915).*

**Mechling's Hydroxide Double Duty Spray**

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	12.50	13.82
Copper.....	12.75	14.52

*Maine Agr. Expt. Sta., Official Inspections 146, 134 (1932).*

## Composition of Commercial Insecticides

### Mechling's Hydroxide, Powdered

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	12.50	14.43
Water-soluble arsenic, metal.....	1.50	0.19
Copper.....	12.75	13.08

*N. J. Agr. Expt. Sta., Bul. 485, 13 (1929).*

### Mechling's Magnesium Arsenate

See Arsenate of Magnesium.

### Mechling's New Jersey Dry Mix

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Sulphur.....	60.00	62.50

*N. J. Agr. Expt. Sta., Bul. 577, 8 (1935).*

### Mechling's No. 40 Bug and Blight Dust

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	5.00	5.58
Water-soluble arsenic, metal.....	0.50	0.19
Copper.....	6.70	7.23

*N. J. Agr. Expt. Sta., Bul. 530, 13 (1931).*

### Mechling's No. 45 Special Bug and Blight Dust

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

Total arsenic, metal.....	6.20	6.70
Water-soluble arsenic, metal.....	0.50	0.22
Copper.....	6.70	6.79

*N. J. Agr. Expt. Sta., Bul. 513, 13 (1930).*

### Mechling's No. 20 Bug and Blight Dust

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	5.00	6.00
Water-soluble arsenic, metal.....	0.50	0.19
Copper.....	5.70	6.40

*N. J. Agr. Expt. Sta., Bul. 513, 13 (1930).*

### Mechling's P. T. B.

See Paradichlorbenzene.

### Mechling's 75-5-20 Dusting Mixture

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	0.80	1.51
Water-soluble arsenic, metal.....	0.50	0.08
Sulphur.....	72.00	73.84

*N. J. Agr. Expt. Sta., Bul. 530, 13 (1931).*

### Mechling's 75 Sulfur, 5 Lead Arsenate, 20 Lime

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	1.00	1.04
Water-soluble arsenic, metal.....	0.50	0.22
Sulphur.....	74.00	67.45

*N. J. Agr. Expt. Sta., Bul. 478, 10 (1928).*



**Mechling's 70 Sulfur, 20 Lime, 10 Lead Arsenate**

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Total arsenic, metal . . . . .	2.00	1.66
Water-soluble arsenic, metal . . . . .	0.50	0.18
Sulphur . . . . .	69.00	75.59

*N. J. Agr. Expt. Sta., Bul. 478, 10 (1928).***Mechling's 70-10-20 Dusting Mixture**

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Total arsenic, metal . . . . .	1.75	2.50
Water-soluble arsenic, metal . . . . .	0.50	0.16
Sulphur . . . . .	67.00	70.61

*N. J. Agr. Expt. Sta., Bul. 548, 13 (1932).***Mechling's Sulf-Lime Dust**

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Sulphur . . . . .	77.00	77.24

*N. J. Agr. Expt. Sta., Bul. 594, 7 (1935).***Mechling's Superfine 80-20 Dusting Mixture**

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Sulphur . . . . .	80.00	81.05

*N. J. Agr. Expt. Sta., Bul. 556, 9 (1933).***Medina Brand Process Blue Dust***See Bordeaux Mixture.***Medina Copper Arsenic Dust 8-9**

(NEW YORK INSECTICIDE CO., MEDINA, N. Y.)

	Guaranteed	Found
Total arsenic . . . . .	6.03	5.93
Total copper . . . . .	7.16	7.68

*Maine Agr. Expt. Sta., Official Inspections 138, 104 (1930).***Medina Process Copper Arsenic Dust**

(AROOSTOOK FARMERS' INSECTICIDE CO., PRESQUE ISLE, ME.)

	Guaranteed	Found
Total arsenic, metal . . . . .	6.00	6.97
Copper . . . . .	7.00	8.22

*Maine Agr. Expt. Sta., Official Inspections 146, 134 (1932).***Medina Process Copper Arsenic Dust**

(NEW YORK INSECTICIDE CO., INC., MEDINA, N. Y.)

	Guaranteed	Found
Total arsenic . . . . .	6.03	7.50
Total copper . . . . .	7.16	7.64

*Maine Agr. Expt. Sta., Official Inspections 134, 113 (1929).***Medina Quality Blue Dust S-11***See Bordeaux Mixture.*

**Medina Quality Copper Arsenic Dust S-9**

(ARROOSTOOK FARMERS' INSECTICIDE CO., PRESQUE ISLE, ME.)

	Guaranteed	Found
Total arsenic, metal.....	6.00	6.00
Copper.....	7.00	7.18

*Maine Agr. Expt. Sta., Official Inspections 150, 122 (1933).*

**Medol A**

**Medol Emulsion**

**Medol I**

See Oil Emulsions, Mineral.

**Melrosine**

(THE GARDEN CHEMICAL CO., NEW YORK, N. Y.)

Guaranteed: Inert matter (water) not over 85 percent.

Found: Chloroform extract 12.94 percent; water 79.70 percent; ash 2.93 percent; fatty acids (oleic) 10.92 percent. Potassium present, arsenic absent. Small amount of essential oil probably present. The solid matter is mostly potassium oleate.

*Conn. Agr. Expt. Sta., Bul. 300, 283 (1929).*

**Mercuric Chloride**

See Corrosive Sublimate.

**Mercury Preparations, Organic**

See "Bayer Dipdust," "Ceresan Dust," "DuPont Semesan, Jr.," "Nu-Green," "Semesan," "Semesan Bel," and "Uspulun."

**Merit Lice Powder**

(TERRY PRODUCTS CO., PASADENA, CAL.)

Two samples:

**Sample 1**

Found: Calcium hydroxide 59.08 percent; calcium carbonate 17.64 percent; calcium sulphate 0.34 percent; magnesium carbonate 1.06 percent; silica 12.80 percent; iron and aluminum oxides 1.98 percent; organic matter and water of constitution 6.72 percent. Red coloring matter present.

**Sample 2**

Guaranteed: Talc 67.00 percent.

Found: Calcium carbonate 1.36 percent; sodium carbonate 2.91 percent; ferric oxide 0.66 percent; water 3.61 percent; phenols 3.60 percent; naphthalene 8.44 percent; talc 78.33 percent.

*Cal. Dept. Agr., Spec. Pub. 34, 57 (1923).*

**Merit Worm Expeller**

(TERRY PRODUCTS CO., PASADENA, CAL.)

Two samples:

**Sample 1**

Found: Talc 40.62 percent; magnesium sulphate 12.04 percent; calcium sulphate 9.05 percent; calcium silicate 6.85 percent; Venetian red 7.34 percent; sand 2.11 percent; loss on ignition 21.18 percent; nicotine 0.22 percent.

**Sample 2**

Found: Calcium hydroxide 1.55 percent; magnesium sulphate 15.79 percent; iron and aluminum oxides 6.00 percent; sand 24.59 percent; loss on ignition 51.60 percent; nicotine 0.06 percent.

*Cal. Dept. Agr., Spec. Pub. 34, 58 (1923).*

**Mexican Bean Beetle Destroyer**

See Arsenate of Magnesium.

**Mexican Bean Beetle Dust**

(FEINSTEIN'S SEED STORE, BRIDGETON, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	5.00	5.61
Water-soluble arsenic, metal.....	0.04	0.11

*N. J. Agr. Expt. Sta., Bul. 577, 11 (1934).*

**Mexican Bean Beetle Dust**

(LUCAS-KIL-TONE CO., VINELAND, N. J.)

	Guaranteed	Found
Calcium arsenate.....	10.67	.....
Water-soluble arsenic, metal.....	0.75	0.16
Total arsenic oxide.....	.....	7.10
Sulphur.....	16.00	13.76
Inert.....	73.33	.....

*Maine Agr. Expt. Sta., Official Inspections 158, 139 (1935).*

**Mexican Bean Beetle, Formula No. 1**

(GOULARD & OLENA, INC., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	7.50	8.14
Water-soluble arsenic, metal.....	0.25	0.11
Nicotine.....	2.50	2.73

*N. J. Agr. Expt. Sta., Bul. 556, 14 (1933).*

**Mexican Bean Beetle, Formula No. 2**

(GOULARD & OLENA, INC., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	9.58	10.00
Water-soluble arsenic, metal.....	0.25	0.16
Copper.....	1.10	1.33

*N. J. Agr. Expt. Sta., Bul. 594, 12 (1935).*

**Mexican Brand Beetle Dust**

(LUCAS-KIL-TONE CO., VINELAND, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	4.00	4.06
Water-soluble arsenic, metal.....	0.75	0.20
Sulphur.....	16.00	14.91

*N. J. Agr. Expt. Sta., Bul. 548, 12 (1932).*

**Mex-Kill**

(APOTHECARIES HALL CO., WATERBURY, CONN.)

Guaranteed: Pyrethrum flowers 4 percent; calomel 2 percent; inert matter (calcium hydroxide) 94 percent.

Found: Total ash 81.40 percent; total mercury 1.46 percent; water-soluble mercury 0.12 percent; calcium oxide 67.62 percent. Carbonate as well as hydroxide present; lime is probably air-slaked.—*Conn. Agr. Expt. Sta., Sample 227*

**Mildew-Go**

See Leinen.

**Mildew Killer**

See M. K.

**Miller Copper Sulfate**

See Copper Sulphate.

## *Composition of Commercial Insecticides*

### **Miko Argentine Ant Poison**

(OSGOOD BROS. DRUG STORES).

	Guaranteed	Found
Arsenious oxide.....	0.10	0.10
Arsenic, metal.....	0.075	0.08

*Cal. Dept. Agr., Spec. Pub. 66, 19 (1926).*

#### **Mineral Oil 12-71-5**

#### **Mineral Oil 12-71-6**

#### **Mineral Seal Oil**

*See Oils, Mineral.*

### **Mirakol Medium Light Special**

#### **Mirakol Medium Special**

*See Oil Emulsions, Mineral.*

### **Mirto**

(H. HUNTER).

Found: Calcium hydroxide and calcium carbonate present, reaction alkaline.

*Cal. Dept. Agr., Spec. Pub. 75, 66 (1927).*

### **Miscible Oil**

#### **Mission Brand Insecto Light**

#### **Mission Brand Insecto Medium**

#### **Mission Brand Insecto No. 1**

*See Oil Emulsions, Mineral.*

### **Mission Rat Poison**

*See Phosphorus Preparations.*

### **Mission Sodium Arsenite Solution**

(LOS ANGELES CHEMICAL CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Sodium arsenite.....	50.00	62.75

*Cal. Dept. Agr., Spec. Pub. 101, 18 (1930).*

#### **Mixture 154 A Special**

#### **Mixture S 155 A Special**

*See Nicotine-Sulphur Dusts.*

#### **Mixture M 163 Special**

#### **Mixture No. 150**

*See Nicotine Dusts.*

#### **Mixture No. 127**

(NIAGARA SPRAYER & CHEMICAL CO., INC., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	3.90	4.56
Water-soluble arsenic, metal.....	0.50	0.23
Sulphur.....	77.00	82.19

*N. J. Agr. Expt. Sta., Bul. 594, 14 (1935).*

#### **Mixture No. 274 Special**

#### **Mixture No. 221 Special**

*See Nicotine Dusts.*

**M. K. Mildew Killer (Unburnt Sulfur Ore)**

(CHAS. A. LEE CO., KERMAN, CAL.)

Found: Moisture 2.68 percent; free sulphur 48.15 percent; free sulphuric acid 1.67 percent; silica 43.50 percent; iron and aluminum oxides 0.26 percent; loss on ignition 3.12 percent; passing 200 mesh sieve, 60.0 percent.

*Cal. Dept. Agr., Spec. Pub. 51, 58 (1925).*

**Modified Kil-Tone**

See Bordeaux Mixture.

**Monohydrated Copper****Monohydrated Copper Sulphate**

See Copper Sulphate.

**Moore's Prepared Squirrel Poison**

See Strychnine Preparations.

**David C. Moore U. C. Chicken Worm Capsules**

(PALMER DRUG CO.)

	Guaranteed	Found
Nicotine . . . . .	13.00	13.46

*Cal. Dept. Agr., Spec. Pub. 75, 35 (1927).*

**Moor Mans Stock and Poultry Dip and Disinfectant**

See Phenol Soap Solutions.

**Morehead's Ant Killer**

(MOREHEAD ANT KILLER CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Tartar emetic . . . . .	.....	1.05
Glucose . . . . .	23.18	large amount
Cane sugar . . . . .	46.38	large amount
Water . . . . .	26.09	25.27

Trace of arsenic present.

*Cal. Dept. Agr., Spec. Pub. 34, 18 (1923).*

**Morse's Gopher Poison**

See Strychnine Preparations.

**Morse's Snail and Slug Destroyer**

(C. C. MORSE &amp; CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Crystallized potash alum . . . . .	99.00	99.42

*Cal. Dept. Agr., Spec. Pub. 75, 66 (1927).*

**Moth-Di**

See Paradichlorbenzene.

**Moth Exterminator and Ovicide**

(H. LIEBES CO., SAN FRANCISCO, CAL.)

Found: Naphthalene 87.20 percent; aldehydes 12.00 percent.

*Cal. Dept. Agr., Spec. Pub. 34, 59 (1923).*

**Moth Flakes**

(WHITE TAR CO., KEARNEY, N. J.)

Sample consisted of white flakes with a coal tar odor. Melting-point corresponded to that of naphthalene.—*Maine Agr. Expt. Sta., Official Inspections 142, 120 (1931).*

**Moth-Gas Clothes Savers**

See Paradichlorbenzene.

**Motholene**

(WHITE TAR CO., KEARNEY, N. J.)

Sample was a white crystalline substance with a coal-tar odor and a melting-point corresponding to that of naphthalene.—*Maine Agr. Expt. Sta., Official Inspections* 142, 120 (1931).

**Mouse Seed**

See Strychnine Preparations.

**Mulford Phosphorus Paste**

See Phosphorus Preparations.

**Muller's Ground Tobacco**

See Nicotine Dusts.

**Munn's Argentine Ant Poison**

(COFFIN-REDINGTON CO.)

	Guaranteed	Found
Arsenic, metal . . . . .	0.15	0.21

*Cal. Dept. Agr., Spec. Pub.* 66, 19 (1926).

**Edgar A. Murray Roach Doom**

(EDGAR A. MURRAY CO.)

Guaranteed: Inert ingredients: curcuma 5.00 percent; sodium carbonate 2.00 percent; sodium sulphate 2.00 percent; sodium chloride 2.00 percent; iron oxide 1.00 percent; insoluble in acids, 2.00 percent.

Found: Sodium fluoride 91.99 percent.

*Cal. Dept. Agr., Spec. Pub.* 75, 62 (1927).

**Mystic Spray Insecticide**

(MYSTIC MFG. CO., GLENDALE, CAL.)

	Guaranteed	Found
Water . . . . .	3.00	0.05

*Cal. Dept. Agr., Spec. Pub.* 75, 64 (1927).

**Mystic XX Spray**

See Oils, Mineral.

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**N**
**Nabob Oil**

See Oils, Mineral.

**Naco Bordeaux-Paris Green**

(NITRATE AGENCIES CO., NEW YORK, N. Y.)

	Guaranteed	Found
Cupric oxide . . . . .	18.00	16.23
Total arsenious oxide . . . . .	17.00	17.32
Water-soluble arsenious oxide . . . . .	2.00	0.82

*Conn. Agr. Expt. Sta., Bul.* 242, 153 (1922).

**Naco Brand Sulfur Dusting Mixture Formula No. 5**

(NITRATE AGENCIES CO., BAYONNE, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	1.95	2.22
Water-soluble arsenic, metal.....	0.50	0.23
Sulphur.....	70.00	67.12

*N. J. Agr. Expt. Sta., Bul. 441, 16 (1926).***Naco Brand Sulphur Smoke Dusting Mixture**

(NITRATE AGENCIES CO., BAYONNE, N. J.)

	Guaranteed	Found
Sulphur.....	80.00	79.58

*N. J. Agr. Expt. Sta., Bul. 441, 7 (1926).***Naco Dust Special**

(NITRATE AGENCIES CO., BAYONNE, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	6.50	7.56
Water-soluble arsenic, metal.....	0.50	0.08
Copper.....	7.30	5.82

*N. J. Agr. Expt. Sta., Bul. 459, 16 (1927).***Naco Kalibor***See Kalibor.***Naga for Better Lawns**

(SHERWIN-WILLIAMS CO., CLEVELAND, O.)

	Guaranteed	Found
Total arsenic, metal.....	19.50	21.21
Water-soluble arsenic, metal.....	1.00	0.31

*N. J. Agr. Expt. Sta., Bul. 594, 16 (1935).***Naphicide**

(NITRATE AGENCIES CO., BAYONNE, N. J.)

	Guaranteed	Found
Nicotine.....	2.00	2.23

*N. J. Expt. Sta., Bul. 407, 11 (1924).***Naphthalene Oil, Crude**

(KOPPERS PRODUCTS CO.)

Found: Flash point, 85° C.; volatile at 100° C. in 4 hours, 98.8 percent; distilling below 200°, 19 percent.—*Conn. Agr. Expt. Sta., Bul. 346, 235 (1933).*

**Naphthaline Balls**

(COOK, EVERETT &amp; PENNELL, PORTLAND, MAINE)

Found: The preparation is naphthalene.—*Maine Agr. Expt. Sta., Official Inspections 134, 115 (1929).*

**Naphthaline Flake**

(COOK, EVERETT &amp; PENNELL, PORTLAND, MAINE)

Found: The substance is naphthalene.—*Maine Agr. Expt. Sta., Official Inspections 134, 115 (1929).*

**Naphtha Residues**

(FRANCO-AMERICAN CHEMICAL WORKS, CARLSTADT, N. J.)

Sample is a dark brown liquid with an odor of amylacetate. Specific gravity 0.826; flash point 109° F.; 49.03 percent volatile in 24 hours at room temperature.—*Conn. Agr. Expt. Sta., Sample 1491.*

**Naphtho**

(MILLER PRODUCTS CO., PORTLAND, OREG.)

	Guaranteed	Found
Naphthalene.....	9.10	9.8
<i>Oreg. Agr. Expt. Sta., Cir. 64, 15 (1925).</i>		

**Naphtholene**

(MILLER PRODUCTS CO., PORTLAND, OREG.)

	Guaranteed	Found
Naphthalene.....	85.00	89.00
<i>Oreg. Agr. Expt. Sta., Cir. 84, 15 (1927).</i>		

**Navco—Arsen—Deaux Dust**

(CHAS. C. NAVLET CO.)

	Guaranteed	Found
Total arsenic.....	0.75	0.70
Copper.....	1.25	1.90
<i>Cal. Dept. Agr., Spec. Pub. 101, 16 (1930).</i>		

**Navco Crude Oil Emulsion**

**Navco Miscible Oil**

*See Oil Emulsions, Mineral.*

**Navco Paradichlor**

*See Paradichlorbenzene.*

**Navco Snail and Slug Destroyer**

(CHAS. C. NAVLET CO., OAKLAND, CAL.)

Guaranteed: Tricalcium arsenate 3.00 percent.  
 Found: Arsenic 2.22 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 21 (1930).*

**Navco Weed Destroyer**

(CHAS. C. NAVLET CO., INC., SAN JOSE, CAL.)

	Guaranteed	Found
Arsenious oxide.....	30.00	31.48
<i>Cal. Dept. Agr., Spec. Pub. 75, 25 (1927).</i>		

**Navco Whale Oil Soap**

*See Soaps.*

**Neutral Emulsion**

*See Oil Emulsions, Mineral.*

**New Evergreen Spray**

(MC LAUGHLIN-GORMLEY-KING CO., MINNEAPOLIS, MINN.)

Guaranteed: Water 14 percent; pyrethrum extractive 6 percent.  
 Found: Solids, probably from pyrethrum, 54.75 percent.—*Maine Agr. Expt. Sta., Official Inspections 154, 136 (1934).*

**New Jersey Dry Mix**

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Sulphur.....	60.00	59.04
<i>Maine Agr. Expt. Sta., Official Inspections 150, 121 (1933).</i>		



**New Jersey Dry-Mix-Sulfur-Lime**

(J. R. GILLAM &amp; BRO., BURLINGTON, N. J.)

Guaranteed: Sulphur 62.00 percent.

Found: Sulphur 55.58 percent; coarser than 100 mesh, 5.70 percent; passes 100 mesh, 94.30 percent; 200 mesh, 35.00 percent; 300 mesh, 1.80 percent.

*N. J. Agr. Expt. Sta., Bul. 459, 8 (1927).***New Jersey Dry Mix Sulfur-Lime**

(JERSEY ORCHARD SUPPLY CO., BURLINGTON, N. J.)

	Guaranteed	Found
Sulphur.....	62.00	66.74

*N. J. Agr. Expt. Sta., Bul. 424, 10 (1925).*

**New Nicotine Contact Mixture**

See Nicotine Dusts.

**Niagara "All in One"**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Copper.....	4.00	6.30
Total arsenic, metal.....	1.80	1.82
Water-soluble arsenic, metal.....	0.50	....
Nicotine.....	1.10	1.11
Sulphur.....	19.00	....

Guaranteed lead arsenate 9.5 percent; Bordeaux mixture 19 percent; inert matter 51.40 percent.

*Conn. Agr. Expt. Sta., Bul. 242, 157 (1922).***Niagara All-in-One Dust No. 6**

See No. 6 All-in-One Dust.

**Niagara A-1 Dust Mixture**

See Nicotine Dusts.

**Niagara Arleca Dust**

(NIAGARA SPRAYER &amp; CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Arsenic oxide.....	6.00	6.57

*Oreg. Agr. Expt. Sta., Cir. 106, 15 (1931).*

**Niagara Arsenate of Lead and Sulphur**

See Arsenate of Lead and Sulphur.

**Niagara Biro Dust**

(NIAGARA SPRAYER &amp; CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	2.73	3.24
Water-soluble arsenic, metal.....	0.50	0.07
Copper.....	6.80	7.00

*N. J. Agr. Expt. Sta., Bul. 485, 15 (1929).***Niagara Bluestone Mixture**

(NIAGARA SPRAYER &amp; CHEMICAL CO., MIDDLEPORT, N. Y.)

Found: Considerable siliceous matter present.—*Conn. Agr. Expt. Sta., Sample 5683.***Niagara Cal-Rite**

See Arsenate of Calcium.

**Niagara Copodust**

See Copodust.

**Niagara Copokil**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal . . . . .	6.25	6.68
Water-soluble arsenic, metal . . . . .	0.50	0.22
Copper . . . . .	8.60	8.55

*N. J. Agr. Expt. Sta., Bul. 478, 12 (1928).***Niagara Copotex**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal . . . . .	6.25	6.58
Water-soluble arsenic, metal . . . . .	0.50	0.27
Copper . . . . .	6.80	6.62

*N. J. Agr. Expt. Sta., Bul. 459, 13 (1927).***Niagara D. C. Dust No. 3**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Copper . . . . .	6.80	8.40

*Maine Agr. Expt. Sta., Official Inspections 122, 86 (1926).***Niagara D-18 Dust Mixture**

(NIAGARA SPRAYER &amp; CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal . . . . .	6.50	6.59
Copper . . . . .	7.00	7.30

*Maine Agr. Expt. Sta., Official Inspections 150, 122 (1933).***Niagara Dormant Dust***See Dormant Dust.***Niagara Dry Lime Sulphur***See Lime Sulphur, Dry.***Niagara Dry Mix**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Sulfur . . . . .	61.00	60.92
Inert . . . . .	39.00	

*Conn. Agr. Expt. Sta., Bul. 346, 236 (1933).***Niagara D 6 Dust**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Copper . . . . .	6.80	6.94

*Cal. Dept. Agr., Spec. Pub. 75, 43 (1927).***Niagara D 20 Dust**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Copper . . . . .	6.80	6.99
Total arsenic, metal . . . . .	4.74	5.10
Water-soluble arsenic, metal . . . . .	0.50	0.04
Guaranteed: Monohydrated copper sulphate arsenate 13.30 percent;	19.00 percent;	calcium

*Cal. Dept. Agr., Spec. Pub. 75, 44 (1927).*

**Niagara D-25 Mixture**

(NIAGARA SPRAYER &amp; CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Copper .....	8.75	8.88

*Maine Agr. Expt. Sta., Official Inspections 150, 123 (1933).*

**Niagara D 25 Potato Dust**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Copper .....	8.60	8.90

Guaranteed: Monohydrated copper sulphate 24.00 percent.  
*Conn. Agr. Expt. Sta., Bul. 258, 370 (1924).*

**Niagara Du-Copper**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Copper .....	34.72	33.60

*Maine Agr. Expt. Sta., Official Inspections 138, 105 (1930).*

**Niagara Dust Mixture No. 3 with Nicotine****Niagara Dust Mixture with Nicotine No. 10***See Nicotine Dusts.***Niagara Dust Mixture with Sulphur and Nicotine***See Nicotine-Sulphur Dusts.***Niagara 85-15 Dusting Mixture**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

Guaranteed: Total arsenic 2.92 percent; water-soluble arsenic not more than 0.50 percent; sulphur 83.00 percent; lead arsenate 14.70 percent; inert matter 2.30 percent.

Found: Total arsenic 3.02 percent.

*Conn. Agr. Expt. Sta., Bul. 242, 157 (1922).*

**Niagara 80-10-10 Mixture**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

Guaranteed: Total arsenic 1.95 percent; water-soluble arsenic not more than 0.50 percent; sulphur 78.00 percent; lead arsenate 9.80 percent; inert matter 12.20 percent.

Found: Total arsenic 2.26 percent.

*Conn. Agr. Expt. Sta., Bul. 242, 157 (1922).*

**Niagara 80-20 Mixture**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal .....	3.90	4.67
Water-soluble arsenic, metal .....	0.50	0.18
Sulphur .....	77.00	79.26

*Cal. Dept. Agr., Spec. Pub. 75, 27 (1927).*

**Niagara Entodust, No. 1***See Arsenate of Lead.***Niagara "50-50"***See 50-50.*

## Composition of Commercial Insecticides

### Niagara Fruitex Dust

(NIAGARA SPRAYER & CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	2.92	3.72
Sulphur.....	82.00	84.02

*Maine Agr. Expt. Sta., Official Inspections 150, 121 (1933).*

### Niagara Hydrated Lime

(NIAGARA SPRAYER & CHEMICAL CO., MIDDLEPORT, N. Y.)

No analysis.—*Conn. Agr. Expt. Sta., Sample 5682.*

### Niagara Kolodust

*See Sulphur.*

### Niagara Koloform

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

Guaranteed: Sulphur 61.00 percent.

Found: Sulphur 71.11 percent; coarser than 100 mesh, 1.53 percent; passes 100 mesh, 98.47 percent; 200 mesh, 53.67 percent; 300 mesh, 10.50 percent.

*N. J. Agr. Expt. Sta., Bul. 459, 8 (1927).*

### Niagara Kolokil

(NIAGARA SPRAYER & CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	2.92	3.71
Sulphur.....	73.00	76.88

*Maine Agr. Expt. Sta., Official Inspections 150, 121 (1933).*

### Niagara Kolo-Peach

(NIAGARA SPRAYER & CHEMICAL CO. INC., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	0.98	1.42
Water-soluble arsenic, metal.....	0.50	0.21
Sulphur.....	69.00	71.08

*N. J. Agr. Expt. Sta., Bul. 513, 14 (1930).*

### Niagara Kolo-Pome

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	2.92	3.38
Water-soluble arsenic, metal.....	0.50	0.22
Sulphur.....	32.00	38.94

*N. J. Agr. Expt. Sta., Bul. 478, 13 (1928).*

### Niagara Koloten

(NIAGARA SPRAYER & CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	1.95	2.36
Water-soluble arsenic, metal.....	0.50	0.11
Sulphur.....	77.00	82.05

*N. J. Agr. Expt. Sta., Bul. 530, 14 (1931).*

### Niagara Kolotex

(NIAGARA SPRAYER & CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	1.95	2.34
Sulphur.....	77.00	82.30

*Maine Agr. Expt. Sta., Official Inspections 150, 121 (1933).*

**Niagara Mixture No. 127**

See Mixture No. 127.

**Niagara Mixture S 303****Niagara New Nicotine Contact Mixture D-1****Niagara New Nicotine Contact Mixture D-11****Niagara Nicotine Contact Mixture**

See Nicotine Dusts.

**Niagara Nicotine Sulfur Dust No. 7**

See Nicotine-Sulphur Dusts.

**Niagara 90-10 Dusting Mixture (Pomodust)**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found	Guaranteed	Found
Sulphur . . . . .	88.00	87.79	87.00	89.73
Total arsenic, metal . . . . .	1.95	1.84	1.76	1.84
Water-soluble arsenic, metal . . . . .	0.50	0.24	0.50	0.12
Lead arsenate . . . . .	9.80	....	....	....

*Conn. Agr. Expt. Sta., Bul. 258, 370 (1924) and Bul. 272, 146 (1925).***Niagara No. 4 Nicotine-Lime Dust****Niagara No. 6 Dust Mixture, with Nicotine****Niagara No. 10 Dust Mixture, with Nicotine**

See Nicotine Dusts.

**Niagara No. 7 Dust with Sulfur and Nicotine**

See Nicotine-Sulphur Dusts.

**Niagara No. 3 Dust Mixture with Nicotine and Basic Lead Arsenate**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Nicotine . . . . .	1.00	1.25
Total arsenic, metal . . . . .	2.10	2.25
Water-soluble arsenic, metal . . . . .	0.50	0.06
Lead oxide . . . . .	....	12.50

*Cal. Dept. Agr., Spec. Pub. 75, 38 (1927).***Niagara No. 217 Kolotex Dust**

(NIAGARA SPRAYER &amp; CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Arsenic oxide . . . . .	3.00	3.14
Sulphur . . . . .	77.00	81.60

*Oreg. Agr. Expt. Sta., Cir. 106, 16 (1931).***Niagara P. D. B. Paradichlorobenzene**

See Paradichlorobenzene.

**Niagara Pomodust**

See Niagara 90-10 Dusting Mixture; No. 4 Niagara Pomodust; Pomo-Dust.

**Niagara Pomodust—124**

(NIAGARA SPRAYER &amp; CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal . . . . .	2.16	2.02
Sulphur . . . . .	87.00	89.74

*Maine Agr. Expt. Sta., Official Inspections 146, 136 (1932).*

## Composition of Commercial Insecticides

### Niagara Pomo-Green

(NIAGARA SPRAYER & CHEMICAL CO., INC., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Sulfur . . . . .	71.00	75.68
Total arsenic . . . . .	1.95	2.54
Water-soluble arsenic . . . . .	0.50	0.11

*Maine Agr. Expt. Sta., Official Inspections 138, 106 (1930).*

### Niagara Potato Dust Mixture

(NIAGARA SPRAYER & CHEMICAL CO., INC., MIDDLEPORT N. Y.)

	Guaranteed	Found
Total arsenic, metal . . . . .	6.25	6.57
Water-soluble arsenic, metal . . . . .	0.50	0.10
Copper . . . . .	6.50	6.87

*N. J. Agr. Expt. Sta., Bul. 372, 22 (1922).*

### Niagara Potato Dust Mixture without Poison

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

Guaranteed: Copper 6.50 percent; monohydrated copper sulphate 19.50 percent; inert matter 80.50 percent.

Found: Copper 7.56 percent.

*Conn. Agr. Expt. Sta., Bul. 242, 157 (1922).*

### Niagara 70-10-20 Mixture, Sulfur-Lead Arsenate-Lime

(NIAGARA SPRAYER & CHEMICAL CO., INC., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal . . . . .	1.95	2.30
Water-soluble arsenic, metal . . . . .	0.50	0.35
Sulphur . . . . .	67.00	70.47

*N. J. Agr. Expt. Sta., Bul. 594, 14 (1935).*

### Niagara Soluble Sulphur Compound

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

Guaranteed: Sodium polysulphide 40.00 percent; sodium thiosulphate 18.00 percent; free sulphur 3.00 percent; inert matter 39.00 percent.

Found: Total sulphur 41.40 percent, present mostly as thiosulphate and free sulphur. Not in original package and probably decomposed.

*Conn. Agr. Expt. Sta., Bul. 258, 370 (1924).*

### Niagara Soluble Sulphur Solution

See Soluble Sulphur Solution.

### Niagara Special Mixture M. 163

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Copper . . . . .	10.40	10.90

*N. J. Agr. Expt. Sta., Bul. 459, 15 (1927).*

### Niagara Special Mixture No. 161

See Special Mixture No. 161.

### Niagara Special Mixture No. 274

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal . . . . .	0.98	1.27
Water-soluble arsenic, metal . . . . .	0.50	0.20
Sulphur . . . . .	82.00	82.78

*N. J. Agr. Expt. Sta., Bul. 459, 15 (1927).*

**Niagara Special Mixture No. 221**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	0.98	1.51
Water-soluble arsenic, metal.....	0.50	0.35
Sulphur.....	73.00	71.70

*N. J. Agr. Expt. Sta., Bul. 459, 15 (1927).***Niagara Special Mixture 154 A****Niagara Special Mixture S 155 A**

See Nicotine-Sulphur Dusts.

**Niagara Special 68**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	1.94	2.31
Water-soluble arsenic, metal.....	....	0.20
Copper.....	3.93	4.10

*Maine Agr. Expt. Sta., Official Inspections 114, 88 (1924).***Niagara Special 210 Dust Mixture**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	7.40	2.68
Water-soluble arsenic, metal.....	0.50	0.24
Copper.....	6.80	8.21

*N. J. Agr. Expt. Sta., Bul. 459, 15 (1927).***Niagara Spud Brand Dust**

See Bordeaux Mixture.

**Niagara Spud Brand Dust 20-25-55**

(NIAGARA SPRAYER &amp; CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	6.50	7.23
Water-soluble arsenic, metal.....	0.50	0.19
Copper.....	6.80	7.08

*N. J. Agr. Expt. Sta., Bul. 530, 14 (1931).***Niagara Sulfodust**

(NIAGARA SPRAYER &amp; CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Sulphur.....	92.00	92.69

*N. J. Agr. Expt. Sta., Bul. 530, 8 (1931).***Niagara Sulphur Dust**

See Sulphur Dust.

**Niagara Sulphur with 7 percent Nicotine Solution****Niagara Sulphur with 10 percent Nicotine Solution**

See Nicotine-Sulphur Dusts.

**Niagara 3 in 1**

(NIAGARA SPRAYER &amp; CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	1.95	2.67
Sulphur.....	48.00	53.60

*Maine Agr. Expt. Sta., Official Inspections 150, 121 (1933).*

**Niagara Vitedust**

See Vitedust.

**Niagara Viti Dust**

(NIAGARA SPRAYER & CHEMICAL CO., INC., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal . . . . .	2.92	3.12
Water-soluble arsenic, metal . . . . .	0.50	0.15
Copper . . . . .	3.94	3.90

*N. J. Agr. Expt. Sta., Bul. 513, 15 (1930).*

**Nickel Carbonate**

(MANUFACTURER UNKNOWN)

Found: Nickel 44.64 percent; nickel carbonate 90.28 percent; trace of sulphate present.

*Conn. Agr. Expt. Sta., Bul. 242, 160 (1922).*

**Nico Dust**

See Nicotine Dusts.

**Nico-Dust for Walnut Worm and Aphis**

(WALNUT GROWERS' SPRAY MFG. CO., LOS ANGELES, CAL.)

**Guaranteed:** Nicotine 0.40 percent; basic lead arsenate 10.00 percent; total arsenic 1.50 percent; water soluble arsenic trace; inert matter (lime) 89.60 percent.

**Found:** Nicotine 0.62 percent; lead oxide 11.95 percent; arsenic oxide 2.89 percent; total arsenic 2.19 percent; water-soluble arsenic 0.08 percent.

*Cal. Dept. Agr., Spec. Pub. 51, 50 (1925).*

**Nico Dust No. 75**

(NICO-DUST MFG. CO.)

	Guaranteed	Found
Total arsenic, metal . . . . .	.....	5.65
Water-soluble arsenic, metal . . . . .	.....	0.18
Calcium arsenate . . . . .	22.00	15.05

*Cal. Dept. Agr., Spec. Pub. 75, 27 (1927).*

**Nico Dust No. 20**

(WESTERN WHOLESALE DRUG CO.)

	Guaranteed	Found
Nicotine . . . . .	2.00	2.61
Total arsenic . . . . .	3.90	4.00
Water-soluble arsenic . . . . .	0.14	0.17

*Cal. Dept. Agr., Spec. Pub. 101, 34 (1930).*

**Nico Dust No. 21**

(WESTERN WHOLESALE DRUG CO.)

	Guaranteed	Found
Nicotine . . . . .	2.75	3.17
Total arsenic . . . . .	3.90	3.94
Water-soluble arsenic . . . . .	0.14	0.19

*Cal. Dept. Agr., Spec. Pub. 101, 34 (1930).*

**Nico Dust No. 30**

(WESTERN WHOLESALE DRUG CO.)

	Guaranteed	Found
Nicotine . . . . .	2.00	2.58
Total arsenic . . . . .	3.50	5.12
Water-soluble arsenic . . . . .	0.30	0.17

*Cal. Dept. Agr., Spec. Pub. 101, 34 (1930).*



**Nico Dust No. 31**

(WESTERN WHOLESALE DRUG CO.)

	Guaranteed	Found
Nicotine . . . . .	2.75	3.20
Total arsenic . . . . .	3.50	5.09
Water-soluble arsenic . . . . .	0.30	0.15

*Cal. Dept. Agr., Spec. Pub. 101, 34 (1930).***Nico-Dust No. 79**

(WESTERN WHOLESALE DRUG CO.)

	Guaranteed	Found	Guaranteed	Found
Calcium arsenate . . . . .	35.00	32.60	34.00	34.10
Total arsenic . . . . .	13.00	12.30	12.50	12.85
Water-soluble arsenic . . . . .	0.40	0.15	0.30	0.04

*Cal. Dept. Agr., Spec. Pub. 101, 17 (1930).***Nico-Dust No. 102***See Bordeaux Mixture.***Nico-Dust No. 104**

(WESTERN WHOLESALE DRUG CO.)

	Guaranteed	Found
Total arsenic . . . . .	8.40	9.41
Water-soluble arsenic . . . . .	0.40	0.12
Copper . . . . .	7.00	7.37

*Cal. Dept. Agr., Spec. Pub. 101, 16 (1930).***Nico Fume (Liquid)***See Nicotine Sulphate Solutions.***“Nico-Fume” Paper**

(TOBACCO BY-PRODUCTS &amp; CHEM. CORP., LOUISVILLE, KY.)

	Guaranteed	Found
Nicotine . . . . .	20.00	21.10

*Oreg. Agr. Expt. Sta., Cir. 84, 10 (1927).***Nico Fume Tobacco Powder***See Nicotine Dusts.***Nico Garden Dust****Nico Soap***See Nicotine Soaps.***Nico-Sulphur Dust No. 5****Nico-Sulphur Dust No. 6****Nico-Sulphur Dust No. 8***See Nicotine-Sulphur Dusts.***Nicota****Nicoticide***See Nicotine Sulphate Solutions.***Nicotine Capsules**

(LANGLEY &amp; MICHAELS).

	Guaranteed	Found
Nicotine . . . . .	13.00	13.48

*Cal. Dept. Agr., Spec. Pub. 75, 35 (1927).*

## Composition of Commercial Insecticides

### Nicotine Caseinate

(MADE BY R. E. ANDREW OF THE

CONNECTICUT AGRICULTURAL EXPERIMENT STATION)

Found: Nicotine 10.92 percent.—*Conn. Agr. Expt. Sta.* Sample 1237.

### Nicotine Contact Mixture

See Nicotine Dusts.

### Nicotine Cresylate

(MADE BY H. J. FISHER OF THE

CONNECTICUT AGRICULTURAL EXPERIMENT STATION.)

Found: Nicotine 39.76 percent.—*Conn. Agr. Expt. Sta.* Sample 1165.

### Nicotine Dusts

See Table XVII.

### Nicotine, Floral

See Nicotine Sulphate Solutions.

### Nicotine-Lime Dust

See Nicotine Dusts.

### Nicotine Miscible Oil

(MICHEL & PELTON CO.)

Guaranteed: Water 10.00 percent.

Found: Nicotine 1.00 percent; soap 5.40 percent; phenols 5.70 percent; tar oil 21.10 percent; mineral oil 61.60 percent; water 4.00 percent.

*Cal. Dept. Agr., Spec. Pub. 75, 39 (1927).*

### Nicotine Naphthenate

(MADE BY H. J. FISHER OF THE

CONNECTICUT AGRICULTURAL EXPERIMENT STATION.)

Found: Nicotine 39.53 percent.—*Conn. Agr. Expt. Sta.* Sample 1166.

### Nicotine Pyrox

(BOWKER CHEMICAL CO., NEW YORK, N. Y.)

	Guaranteed	Found
Calcium arsenate . . . . .	8.75	....
Total arsenic, metal . . . . .	3.26	3.43
Water-soluble arsenic, metal . . . . .	0.30	0.07
Copper . . . . .	7.00	7.50
Nicotine . . . . .	1.60	1.72
Inert . . . . .	82.65	....

*Maine Agr. Expt. Sta., Official Inspections 158, 140 (1935).*

### Nicotine, Rose

See Nicotine Sulphate Solutions.

### Nicotine Soaps

See Table XVIII.

### Nicotine Solution No. 1

(JOSEPH BUBENICEK, WOODMONT, CONN.)

Found: Nicotine 0.002 percent.—*Conn. Agr. Expt. Sta.* Sample 8651.

### Nicotine Solution No. 2

(JOSEPH BUBENICEK, WOODMONT, CONN.)

Found: Nicotine 0.066 percent.—*Conn. Agr. Expt. Sta.* Sample 8652.

### Nicotine Spray

See Nicotine Soaps.

**Nicotine-Sulfur-Lead Arsenate Dust**

(WALNUT GROWERS' SPRAY MFG. CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Sulphur.....	60.00	44.19
Nicotine.....	1.90	1.55
Lead arsenate.....	10.00	0.27
Arsenic, metal.....	2.00	0.06
Inert matter.....	28.00	.....

*Cal. Dept. Agr., Spec. Pub. 34, 49 (1923).***Nicotine-Sulfur Paste**

(STANDARD CHEMICAL CO., OAKLAND, CAL.)

	Guaranteed	Found
Nicotine.....	1.20	1.56
Free sulphur.....	43.00	45.25
Combined sulphur.....	.....	0.25
Soap.....	6.00	7.07
Inert matter (lime).....	49.80	.....

*Cal. Dept. Agr., Spec. Pub. 34, 48 (1923).***Nicotine Sulphate Dust***See Nicotine Dusts.***Nicotine Sulphate Solution***See Table XIX.***Nicotine-Sulphur Dusts***See Table XX.***Nico-Tone**

(THE KIL-TONE CO., VINELAND, N. J.)

*(See also Green Cross Nico-Tone.)*

	Guaranteed	Found
Nicotine.....	1.25	0.67

*N. J. Agr. Expt. Sta., Bul. 407, 10 (1924).*

**Nico-Tone B**

(THE KIL-TONE CO., VINELAND, N. J.)

	Guaranteed	Found
Nicotine.....	3.00	2.17

*N. J. Agr. Expt. Sta., Bul. 407, 10 (1924).*

**Nicotox***See Bonide Nicotox.***Nicotrol**(KAY LABORATORIES DIVISION OF  
KAY FRIES CHEMICALS, INC., NEW YORK, N. Y.)*Found: Nicotine 2.05 percent.—Conn. Agr. Expt. Sta., Bul. 346, 238 (1933).***Nico Whale Oil Soap***See Nicotine Soaps.***Nikoteen***See Nicotine Sulphate Solution.***99 Roach Powder**

(NINETY-NINE CHEMICAL CORP., MEMPHIS, TENN.)

*Guaranteed: Inert ingredient carbon not over 1 percent.  
Found: Borax (Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub> · 5 H<sub>2</sub>O) 99.9 percent; water-insoluble 0.36 percent.  
Conn. Agr. Expt. Sta., Bul. 346, 238 (1933).*

**90-10 Dusting Mixture**

See Niagara 90-10 Dusting Mixture.

**Nixon Plant Spray**

(NIXON CHEMICAL PRODUCTS CO., NEWARK, N. J.)

Found: Solids 4.55 percent. Derris and pyrethrum extracts probably present.—*Maine Agr. Expt. Sta., Official Inspections* 154, 136 (1934).

**No-Mor-Fly**

(NO-MOR PRODUCTS CO., LOS ANGELES, CAL.)

Found: Oil 100.00 percent; water trace, ash none to 0.003 percent. Wintergreen and cassia present.

*Cal. Dept. Agr., Spec. Pub.* 51, 56 (1925).

**Nox-A-Vermin**

(COAST CHEMICAL CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Phenols . . . . .	20.00	22.40
<i>Cal. Dept. Agr., Spec. Pub.</i> 34, 36 (1923).		

**Noxem Squirrel and Gopher Poison**

See Strychnine Preparations.

**Noxicide**

See Phenol Soap Solutions.

**Nox-Weed**

(C. W. MORRELL, LOS ANGELES, CAL.)

Found: Arsenious oxide 16.74 percent; sodium hydroxide 26.80 percent; sodium carbonate 42.00 percent; sodium chloride small amount, chromic oxide 1.93 percent.

*Cal. Dept. Agr., Spec. Pub.* 34, 20 (1923).

**Nox Worm Dry Powdered**

(A. F. DINGLEY, SOUTH PORTLAND, ME.)

	Guaranteed	Found
Total arsenic, metal . . . . .	16.00	19.82
Water-soluble arsenic, metal . . . . .	5.00	0.25
Copper . . . . .	4.00	5.30

*Maine Agr. Expt. Sta., Official Inspections* 122, 87 (1926).

**N. S. P. Dust**

See Nicotine-Sulphur Dusts.

**Nuc-Oleum**

See Phenol Soap Solutions.

**Nu-Green**

(BAYER-SEMESAN CO.)

Guaranteed: Hydroxymercurichlorphenol sulfate 15.00 percent.

Found: Mercury 11.89 percent.—*Cal. Dept. Agr., Spec. Pub.* 101, 82 (1930).

**No. 5 Nicotine Dust**

See Nicotine Dusts.

**No. 40 Insecticide and Fungicide Dust**

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Total arsenic, metal . . . . .	5.20	6.37
Water-soluble arsenic, metal . . . . .	0.20	0.08
Copper . . . . .	7.10	7.77

*N. J. Agr. Expt. Sta., Bul.* 594, 13 (1935).

**No. 45 Special Insecticidal and Fungicidal Dust**

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	6.50	7.40
Water-soluble arsenic, metal.....	0.50	0.08
Copper.....	7.10	7.38

*N. J. Agr. Expt. Sta., Bul. 594, 13 (1935).***No. 4 Niagara Pomodust**

(NIAGARA SPRAYER &amp; CHEMICAL CO.)

Total arsenic.....	1.76	2.15
Water-soluble arsenic.....	0.50	0.23
Lead oxide.....	.....	5.95
Sulfur.....	87.00	88.61

*Cal. Dept. Agr., Spec. Pub. 101, 16 (1930).***No. 4 Nicotine-Lime Dust***See Nicotine Dusts.***No. 1 Dual Nicocides**

(HERCULES GLUE CO., VAN NUYS, CAL.)

Found: Nicotine 5.30 percent = 0.0689 grams per capsule.—*Cal. Dept. Agr., Spec. Pub. 101, 36 (1930).***No. 1 Niagara Entodust***See Arsenate of Lead.***No. 1 Roundworm Nicocides**

(HERCULES GLUE CO., VAN NUYS, CAL.)

Found: Nicotine 5.78 percent = 0.069 grams per capsule.—*Cal. Dept. Agr., Spec. Pub. 101 36 (1930).***No. 70 Sulf-Arsena Dusting Mixture**

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	1.75	2.84
Water-soluble arsenic, metal.....	0.50	0.31
Sulphur.....	67.00	69.72

*N. J. Agr. Expt. Sta., Bul. 594, 13 (1935).***No. 6 All-in-One Dust**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Nicotine.....	1.00	1.14
Total arsenic, metal.....	1.76	2.10
Water-soluble arsenic, metal.....	0.50	0.26
Lead oxide.....	.....	6.45
Sulphur.....	75.00	76.16

*Cal. Dept. Agr., Spec. Pub. 75, 38 (1927).***No. 6 Disinfectant***See Phenol Soap Solutions.***No. 6 Dust Mixture with Nicotine****No. 10 Dust Mixture with Nicotine***See Nicotine Dusts.*

**Odora Camphorized Naphthaline Cake**

(ODORA CO., INC., NEW YORK, N. Y.)

Found: Compressed cakes consisting of naphthalene and gum camphor.—*Maine Agr. Expt. Sta., Official Inspections* 142, 119 (1931).

**Odora Camphorized Naphthaline Crystals**

(ODORA CO., INC., NEW YORK, N. Y.)

Sample is a mixture of naphthalene flakes and gum camphor.—*Maine Agr. Expt. Sta., Official Inspections* 142, 119 (1931).

**Odora Cedarized Naphthaline Cakes**

(ODORA CO., INC., NEW YORK, N. Y.)

Sample is a compressed cake of naphthalen $\acute{e}$  and oil of cedar.—*Maine Agr. Expt. Sta., Official Inspections* 142, 119 (1931).

**Odora Moth Packet****Odora Vapo. Cake**

See Paradichlorbenzene.

**Oil**

(This is an experimental mixture of 80 percent "Wyrol" and 20 percent cottonseed oil made by Mr. Turner of the Entomology Department of the Connecticut Agricultural Experiment Station.)

Found: Saybolt viscosity at 100° F., 147.6 seconds.—*Conn. Agr. Expt. Sta., Bul.* 346, 240 (1933).

**Oil Emulsions, Mineral**

See Table XXI.

**Oil, Fish**

The U. S. Department of Agriculture recommends the following specifications for fish oil for spraying purposes:

The oil should be light pressed and unadulterated, and have the following specifications:

Saponification value	190 to 193
Iodine value	139 to 193
Specific gravity at 15° C.	0.927 to 0.933
Free fatty acid	Less than 5 percent

*U. S. D. A., Dept. Bul.* 1439 (1926).

**Oil, Menhaden, Light Pressed**

(MANUFACTURER UNKNOWN)

Found: Specific gravity, 15° C., 0.932; saponification number 187; iodine number 173; free fatty acids 3.46 percent.

*Conn. Agr. Expt. Sta., Bul.* 300, 305 (1929).

**Oils, Mineral**

See Table XXII.

**Oil Soluble Sulfonate**

(STANDARD OIL CO., OF NEW JERSEY)

Found: Total ash 10.70 percent; soap 0.16 percent; non-soap ash 10.67 percent.—*Conn. Agr. Expt. Sta., Bul.* 346, 240 (1933).

**Oil, White**

See Oils, Mineral.

## Composition of Commercial Insecticides

### No. 3 Dust

(LEGGETT & BRO., INC., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal . . . . .	16.00	16.30
Water-soluble arsenic, metal . . . . .	0.50	0.04
Copper . . . . .	.....	4.85

*N. J. Agr. Expt. Sta., Bul. 441, 12 (1926).*

### No. 3 Dust Mixture

See Nicotine Dusts.

### No. 3 Niagara D-6 Dust

### No. 25 Special Fungicidal Dust

### No. 20 Fungicidal Dust

See Bordeaux Mixture.

### No. 2 Dual Nicocides

(HERCULES GULE CO., VAN NUYS, CAL.)

Found: Nicotine 5.93 percent. = 0.0593 grams per capsule.—*Cal. Dept. Agr., Spec. Pub. 101, 36 (1930).*

### No. 2 Roundworm Nicocides

(HERCULES GLUE CO., VAN NUYS, CAL.)

Found: Nicotine 5.97 percent. = 0.0561 grams per capsule.—*Cal. Dept. Agr., Spec. Pub. 101, 36 (1930).*

### Nu Rex O

(CALIFORNIA REX SPRAY CO., SACRAMENTO, CAL.)

	Guaranteed	Found
Arsenic oxide . . . . .	5.55	6.62
Copper . . . . .	12.70	11.50

*Oreg. Agr. Expt. Sta., Cir. 84, 13 (1927).*

### Nyal Roach Powder

(NYAL CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Talc . . . . .	55.00	46.32

*Cal. Dept. Agr., Spec. Pub. 75, 63 (1927).*

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## O

### Oakland Ant Co.

(OAKLAND ANT EXTERMINATING CO., OAKLAND, CAL.)

Found: Arsenious oxide 0.29 percent; arsenic, metal 0.22 percent.  
*Cal. Dept. Agr., Spec. Pub. 66, 19 (1926).*

### O-Bit Insect Powder

See Pyrethrum.

### O-Cedar Spray

(O-CEDAR CORPORATION, CHICAGO, ILL.)

Found: Contains oil of cedar.—*Maine Agr. Expt. Sta., Official Inspections 138, 106 (1930).*

**O. K. Ant Paste**

(WESTERN WHOLESALE DRUG CO.)

Guaranteed: Arsenic 8.39 percent.

Found: Arsenious oxide 11.33 percent; arsenic, metal 8.58 percent; invert sugar 21.45 percent; sucrose 17.27 percent; water 33.02 percent.

*Cal. Dept. Agr., Spec. Pub. 58, 17 (1925).***O-Kay Gopher Poison****Okay Poisoned Wheat**

See Strychnine Preparations.

**O. K. Soluble Pine Oil**

(ANDREW WILSON, SPRINGFIELD, N. J.)

Found: Water 6.1 percent; ash 1.81 percent; soap (as potassium oleate) 8.11 percent; oil (by difference) 85.79 percent; phenols none or trace. The oil was fluid at 100° C. and of the consistency of vaseline at room temperature; refractive index, 20° C., 1.484.—*Conn. Agr. Expt. Sta. Bul. 346, 240(1933)*

**O. K. Squirrel Poison**

See Strychnine Preparations.

**Old English Lawn Klenser**

(THE PHILADELPHIA SEED CO., PHILADELPHIA, PA.)

Found: Water 3.17 percent; ash 57.65 percent; total nitrogen 2.71 percent; ammonia nitrogen 0.03 percent; silica 5.72 percent; total arsenic pentoxide 14.49 percent; water-soluble arsenic pentoxide 0.00 percent; lead oxide 27.05 percent; ferric oxide 7.60 percent; aluminum oxide 1.99 percent; calcium oxide 0.59 percent; magnesium oxide 0.74 percent; potassium oxide 0.20 percent; chromium, copper, chloride and phosphate traces; no carbonate; organic matter probably tankage.

## ESTIMATED COMPOSITION:

Lead Arsenate (PbHAsO <sub>4</sub> )	41.54
Ferric oxide (Fe <sub>2</sub> O <sub>3</sub> )	7.60
Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> )	1.99
Silica (SiO <sub>2</sub> )	5.72
Magnesium oxide (MgO)	0.74
Calcium phosphate [Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> ]	1.09
Potassium chloride (KCl)	0.32
Ammonium chloride (NH <sub>4</sub> Cl)	0.11
Protein	16.75
Water	3.17
Non-protein organic matter	20.97

*Conn. Agr. Expt. Sta., Bul. 346, 240 (1933).***Old Reliable Bean Dust**

(CHAMBERLIN &amp; BARCLAY, INC., CRANBURY, N. J.)

	Guaranteed	Found
Total arsenic, metal	6.50	6.70
Water-soluble arsenic, metal	0.50	0.11
Copper	7.00	6.94

*N. J. Agr. Expt. Sta., Bul. 577, 11 (1934).***Old Reliable Bug Killer and Vim Tonic**

(CHAMBERLIN &amp; BARCLAY, INC., CRANBURY, N. J.)

	Guaranteed	Found
Total arsenic, metal	7.50	8.62
Water-soluble arsenic, metal	0.50	0.08
Copper	9.00	9.97

*N. J. Agr. Expt. Sta., Bul. 594, 10 (1935).*



**Old Reliable Stay Green**

See Bordeaux Mixture.

**Old Rip Van Winkle Fly Spray**

See Oils, Mineral.

**Old 23 Nicotine Carrier Dust**

See Nicotine Dusts.

**"180" Poison Copper Dry Powder**

(GOULARD &amp; OLENA, INC., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	21.30	26.17
Water-soluble arsenic, metal.....	.....	0.57
Copper.....	5.00	6.99

*N. J. Agr. Expt. Sta., Bul. 594, 12 (1935).***Ongman's Dip and Disinfectant**

See Phenol Soap Solutions.

**Orange Oil Emulsion****Orange-Oil**

See Oil Emulsions, Mineral.

**Orchard Brand Basic Zinc Arsenate**

(GENERAL CHEMICAL CO., BALTIMORE, MD.)

	Guaranteed	Found
Zinc arsenate.....	93.50	.....
Total arsenic oxide.....	37.50	37.56
Water-soluble arsenic, metal.....	0.49	0.00

*Conn. Agr. Expt. Sta., Sample 2600.***Orchard Brand M. B. Dust—Mexican Bean Beetle**

(GENERAL CHEMICAL CO., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	4.00	4.15
Water-soluble arsenic, metal.....	0.50	0.28
Copper.....	5.25	5.31

*N. J. Agr. Expt. Sta., Bul. 548, 11 (1932).***Orchard Brand Nicotine Sulfate**

See Nicotine Sulphate Solutions.

**Orchard Brand Potato Spray**

(GENERAL CHEMICAL CO., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	7.93	8.53
Water-soluble arsenic, metal.....	0.40	0.08
Copper.....	18.00	18.76

*N. J. Agr. Expt. Sta., Bul. 594, 12 (1935).***Orchard Brand Zinc Bordeaux**

(GENERAL CHEMICAL CO., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	10.16	10.96
Water-soluble arsenic, metal.....	1.00	0.69
Copper.....	.....	15.66

*N. J. Agr. Expt. Sta., Bul. 372, 18 (1922).***Orchard Dormant Soluble Oil**

See Oil Emulsions, Mineral.

**Orchard Kalinex**

(GENERAL CHEMICAL CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Total arsenic, metal. . . . .	38.9	39.8
<i>Oreg. Agr. Expt. Sta., Cir. 95, 14 (1929).</i>		

**Ortho Apricot Oil**

See Oil Emulsions, Mineral.

**Ortho Carbolic Disinfectant**

See Phenol Soap Solutions.

**Ortho Crude Oil Emulsion**

See Oil Emulsions, Mineral.

**Ortho Double Nicotine Dust**

See Nicotine Dusts.

**Ortho Garden Dust**

(CALIFORNIA SPRAY CHEMICAL CO., WATSONVILLE, CAL.)

	Guaranteed	Found
Nicotine. . . . .	2.00	2.11
Arsenic oxide. . . . .	4.00	3.82
Copper. . . . .	2.50	2.54
<i>Cal. Dept. Agr., Spec. Pub. 75, 38 (1927).</i>		

**Ortho Gopher Poison**

See Strychnine Preparations.

**Ortho Instant Blue Stone**

See Copper Sulphate.

**Ortho Kleenup****Orthol**

See Oil Emulsions, Mineral.

**Ortho Liquid Soap**

See Soaps.

**Ortho Miscible Oil**

See Oil Emulsions, Mineral.

**Ortho Nicotine Dust No. 10****Ortho Nicotine Dust 6 Special****Ortho Nicotine Dust 8 Special**

See Nicotine Dusts.

**Ortho Orange Oil Emulsion**

See Oil Emulsions, Mineral.

**Ortho Paradichlorobenzene**

See Paradichlorobenzene.

**Ortho Penetrating Oil Spray**

See Oil Emulsions, Mineral.

**Ortho Penetrating Poisoned Barley**

See Strychnine Preparations.

**Ortho Poison Brand**

(CALIFORNIA SPRAY CHEMICAL CO., WATSONVILLE, CAL.)

	Guaranteed	Found
Arsenious oxide.....	7.10	6.90
Arsenic, metal.....	1.75	5.22

*Cal. Dept. Agr., Spec. Pub. 51, 18 (1925).***Ortho Spreader (Dry Form)**

(CALIFORNIA SPRAY CHEMICAL CORP., BERKELEY, CAL.)

## ESTIMATED COMPOSITION:

Calcium hydroxide.....	71.20
Casein.....	6.32
Bentonite.....	10.59
Ferric sulphate[Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> . 5H <sub>2</sub> O].....	4.72
Water, carbon dioxide and undetermined.....	7.17

No starch, rosin or sugars present.—*Conn. Agr. Expt. Sta., Sample 5887.***Ortho Walnut Worm and Aphis Dust**

(CALIFORNIA SPRAY CHEMICAL CO., WATSONVILLE, CAL.)

	Guaranteed	Found
Nicotine.....	0.90	1.17
Total arsenious oxide.....	3.00	3.22
Total arsenic, metal.....	1.96	2.10
Water-soluble arsenic, metal.....	.....	0.06
Lead oxide.....	.....	10.00

*Cal. Dept. Agr., Spec. Pub. 75, 38 (1927).***Ortho Walnut Worm Dust**

(CALIFORNIA SPRAY CHEMICAL CO., WATSONVILLE, CAL.)

	Guaranteed	Found
Arsenic.....	1.96	1.72

*Cal. Dept. Agr., Spec. Pub. 75, 26 (1927).***Ortho Weed Killer**

(CALIFORNIA SPRAY CHEMICAL CO., WATSONVILLE, CAL.)

	Guaranteed	Found
Arsenious oxide.....	29.00	29.73

*Cal. Dept. Agr., Spec. Pub. 75, 25 (1927).***Ortho Whale Oil Soap***See Soaps.***Ortho White Arsenic**

(CALIFORNIA SPRAY CHEMICAL CO.)

	Guaranteed	Found
Arsenic trioxide.....	99.50	99.35

*Cal. Dept. Agr., Spec. Pub. 101, 22 (1930).***Otaylite**

(MANUFACTURER NOT STATED)

Found: Water 8.20 percent; soap 14.38 percent; free sulphur 8.13 percent; sodium carbonate 22.50 percent; silica 28.46 percent; iron and aluminum oxides 1.40 percent; calcium carbonate 13.05 percent; magnesium carbonate 3.48 percent. No arsenic or lead present.

*Cal. Dept. Agr., Spec. Pub. 34, 59 (1923).*

**The Owl Argentine Ant Poison**

(THE OWL DRUG CO., SACRAMENTO, CAL.)

	Guaranteed	Found
Arsenic.....	0.20	0.18

*Cal. Dept. Agr., Spec. Pub. 75, 24 (1927).*

**Owl Prussic Acid**

See Hydrocyanic Acid.

**The Owl Sheep Dip**

See Phenol Soap Solutions.

**"Oxygenic" Powder**

(OXYGENIC INDUSTRIAL CO., LOS ANGELES, CAL.)

Found: Water 7.48 percent; copper sulphate ( $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ ) 28.45 percent; calcium oxide 32.12 percent; gypsum 11.29 percent; ammonium chloride 4.59 percent; potassium chloride 3.42 percent; sodium chloride 0.50 percent; magnesium chloride 2.85 percent; magnesium sulphate 3.10 percent; silica 2.40 percent; iron and aluminum oxides 0.58 percent; carbon dioxide 3.22 percent.

*Cal. Dept. Agr., Spec. Pub. 34, 60 (1923).***P****Pacific R & H Hydrocyanic Acid**

See Hydrocyanic Acid.

**Pades Roach & Water Bug Powder**

(PADES PRODUCTS CO., MINOT, N. DAK.)

Not analyzed.—*N. Dak. Bul. 37, 121 (1932).***Pale Paraffine Oil No. 34-C-11-58**

See Oils, Mineral.

**Palvex Flea and Lice Powder**

(WM. COOPER &amp; NEPHEWS, INC.)

Not analyzed.—*Cal. Dept. Agr., Spec. Pub. 101, 84 (1930).***Panama Spray Compound**

(CENTER PHARMACY, OAKLAND, CAL.)

No statement of active or inert ingredients. Not analyzed.

*Cal. Dept. Agr., Spec. Pub. 66, 36 (1926).***Paracide**

See Paradichlorbenzene.

**Paradichlorbenzene**

See Table XXIII.

**Paris Green**

See Table XXIV.

**Parker's Magic Discovery**

See Lime-Sulphur Solution.

**Parodant**

See Paradichlorbenzene.

**Patex Potential Bleach**

(PATEK &amp; CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Available chlorine.....	16.00	16.55
<i>Cal. Dept. Agr., Spec. Pub. 101, 81 (1930).</i>		

**P. B. K.**

(JOHN LUCAS &amp; CO., INC., PHILADELPHIA, PA.)

(See also "Green Cross P. B. K.")

	Guaranteed	Found
Total arsenic, metal.....	21.30	21.24
Water-soluble arsenic, metal.....	1.00	1.64
Copper.....	6.00	9.00
<i>N. J. Agr. Expt. Sta., Bul. 407, 14 (1924).</i>		

**P. C. A. Nicotine Capsules**

(POULTRYMEN'S CO-OPERATIVE MILLING ASSOCIATION)

	Guaranteed	Found
Nicotine.....	13.00	13.04
<i>Cal. Dept. Agr., Spec. Pub. 101, 36 (1930).</i>		

**P. D. Q. Argentine Ant Solution**

See Hirschey.

**Peerless Light 60 Spray Emulsion****Peerless Spray Emulsion****Penetrating Oil Spray**

See Oil Emulsions, Mineral.

**Perfection Insect Spray**

(BERT L. GOSSAGE, SEBASTOPOL, CAL.)

No analysis.—*Cal. Dept. Agr., Spec. Pub. 101, 84 (1930).***Perfecto Rosin Paste**

See Soaps.

**Perfecto Spray Oil**

See Oil Emulsions, Mineral.

**Pesky Devils Quietus**

(OWL CHEMICAL CO., TERRE HAUTE, IND.)

Found: The product consists of a liquid with a kerosene base and powdered naphthalene.—*Maine Agr. Expt. Sta., Official Inspections 134, 116 (1929).***Pest-Go**

(PEST-GO, INC., PORTLAND, OREG.)

	Guaranteed	Found
Active salts.....	70.00	68.80
<i>Oreg. Agr. Expt. Sta., Cir. 84, 15 (1927).</i>		

**Pest Oil 60****Pest Oil 80**

See Oil Emulsions, Mineral.

**Pestroy**

See Bordeaux Mixture-Lead Arsenate.

**Peterman's Discovery Liquid**

(WILLIAM PETERMAN, INC., NEW YORK, N. Y.)

Found: The preparation is a petroleum product.—*Maine Agr. Expt. Sta., Official Inspections* 134, 116 (1929).

**Peterman's Roach Food**

See Sodium Fluoride.

**Petrotine****Petrotine Emulsion C—2****Petrotine Emulsion 60****Petrotine Emulsion 70****Petrotine Emulsion 95**

See Oil Emulsions, Mineral.

**Phar O Termite Spray—Sodium Arsenite**

(PHARO SUPPLY CO., PASADENA, CAL.)

	Guaranteed	Found
Arsenic trioxide.....	28.00	37.50
<i>Cal. Dept. Agr., Spec. Pub.</i> 101, 18 (1930).		

**Pheno-Dip**

See Phenol Soap Solutions.

**Phenol**

See Table XXV.

**Phenolene**

See Phenol Soap Solutions.

**Phenol Soap Solutions**

See Table XXVI.

**Phin-O-Tas Oil (Termite Larvicide)**

(MANUFACTURER UNKNOWN)

No arsenic.—*Conn. Agr. Expt. Sta.*, Sample 8120.

**Phosphorus Preparations**

See Table XXVII.

**Pied Piper Rat and Roach Paste**

See Phosphorus Preparations.

**Pine Oil Preparations**

See Germo Pine-Oil; Germo Pynol Emulsion; Kliko Disinfectant; O. K. Soluble Pine Oil; Pinofect; Pin-O-Sol; Superl Soluble Pine Oil; Westopine.

**Pine Tree Potato Dust-25-75-Copper-Lime Dust**

See Bordeaux Mixture.

**Pinofect**

(WEST DISINFECTING CO.)

Guaranteed: Inert matter (water) 65 percent; "bacteriologically equal to pure carbolic acid when tested against a vigorous culture of *B. Typhosus* by the R-W method."

Found: Water 59.0 percent; ash 3.10 percent; soap (as potassium oleate) 15.69 percent; oil (by difference) 25.31 percent; phenols none or trace. Oil was fluid; refractive index, 20° C., 1.481. Probably steam-distilled pine oil.—*Conn. Agr. Expt. Sta., Bul.* 346, 252 (1933).



**Pin-O-Sol**

(SOUTHERN CALIFORNIA DISINFECTING CO., LOS ANGELES, CAL.)

Guaranteed: Water 9.60 percent.  
 Found: Total oils 85.69 percent; mineral oils 37.29 percent; soap 10.19 percent; water 4.00 percent. Sample is a pine oil preparation.—*Cal. Dept. Agr. Spec. Pub. 101, 77 (1930).*

**P. K. B.**

(JOHN LUCAS &amp; CO., INC., PHILADELPHIA, PA.)

	Guaranteed	Found
Total arsenic, metal.....	21.00	21.64
Water-soluble arsenic, metal.....	1.00	0.87
Copper.....	.....	15.50

*N. J. Agr. Expt. Sta., Bul. 441, 13 (1926).***Plantobac**

See Nicotine Dusts.

**Plantor Insecticide for Gardens**

(CLEAN HOME PRODUCTS CORP., CHICAGO, ILL.)

	Guaranteed	Found
Sodium fluosilicate.....	18.50	18.13
Sulphur.....	19.00	18.00

*Maine Agr. Expt. Sta., Official Inspections 146, 138 (1932).***Plant Tonic and Insecticide**

(BYRNE MFG. CO., OAKLAND, CAL.)

Declared composition: Tobacco stems, lime, sulfur, borax, oil of sassafras (synthetic), geranium oil and water.

Found: Nicotine 0.22 percent; free sulphur 0.39 percent; faint test for borax; very small amount of calcium oxide; sassafras and geranium oils present.

*Cal. Dept. Agr., Spec. Pub. 34, 60 (1923).***Poison Bait Compound**

(CHIPMAN CHEMICAL ENGINEERING CO., INC., NEW YORK, N. Y.)

Guaranteed: Sodium arsenite 2.50 percent; inert matter 97.50 percent; total arsenic 1.60 percent; water-soluble arsenic 1.60 percent.

Found: Total arsenic (metal), 0.98 percent.

*Conn. Agr. Expt. Sta., Bul. 300, 330 (1929).***Poison Barley**

See Strychnine Preparations.

**Poisoned Ant Syrup**

(SAN DIEGO HORTICULTURAL COMMISSIONER, SAN DIEGO, CAL.)

	Guaranteed	Found
Sodium arsenite.....	0.15	0.23

*Cal. Dept. Agr., Spec. Pub. 66, 19 (1926).***Poisoned Barley****Poisoned Grain****Poisoned Grain Squirrel Poison****Poisoned Oats**

See Strychnine Preparations.

**Poison Spray Tabs—Bordeaux Arsenate**

(EARL THOMAS CULTURE CORP., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal. . . . .	5.00	5.51
Water-soluble arsenic, metal. . . . .	0.05	0.07
Copper. . . . .	....	12.40

*Maine Agr. Expt. Sta., Official Inspections 110, 56 (1923).***Poison Wheat**

See Strychnine Preparations.

**Pomo-Dust**

(NIAGARA SPRAYER &amp; CHEMICAL CO., MIDDLEPORT, N. Y.)

(See also "Niagara 90-10 Dusting Mixture," "No. 4 Niagara Pomodust").

	Guaranteed	Found
Sulphur. . . . .	71.00	75.92
Lead arsenate. . . . .	10.00	....
Total arsenic, metal. . . . .	....	2.28
Water-soluble arsenic, metal. . . . .	....	0.33
Inert. . . . .	19.00	....

*Maine Agr. Expt. Sta., Official Inspections 142, 119 (1931).***Pomo-Green with Nicotine**

(NIAGARA SPRAYER &amp; CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Sulphur. . . . .	68.50	72.38
Lead arsenate. . . . .	9.50	....
Total arsenic, metal. . . . .	1.86	2.54
Nicotine. . . . .	1.70	2.53

*Maine Agr. Expt. Sta., Official Inspections 150, 124 (1933).***Potassium Cyanide**

(MANUFACTURER NOT STATED)

Found: Moisture 0.22 percent; potassium cyanide 93.80 percent; sodium cyanide 0.87 percent; sodium chloride 1.15 percent; potassium ferrocyanide 0.75 percent; fine dust 3.22 percent.

*Cal. Dept. Agr., Spec. Pub. 34, 25 (1923).*

See Soaps.

**Potassium Oleate Solution****Potassium Sulphide U. S. P.**

(K. INUKAI CO.)

Found: Sulfide sulfur 24.82 percent; thiosulfate sulfur 9.22 percent.—

*Cal. Dept. Agr., Spec. Pub. 101, 30 (1930).***Potato and Tomato Beetle Dust**

(HYMAN FEINSTEIN, BRIDGETON, N. J.)

	Guaranteed	Found
Total arsenic, metal. . . . .	4.00	5.00
Water-soluble arsenic, metal. . . . .	0.08	0.31

*N. J. Agr. Expt. Sta., Bul. 594, 11 (1935).***Potato Dust Mixture**

See Nicotine Dusts.

**Potato Dust Poison**

(DELORO CHEMICAL CO., DELORO, ONT., CANADA)

Found: Total arsenic oxide 9.62 percent; water-soluble arsenic oxide 0.10 percent; cupric oxide 8.07 percent.

*Canada Dept. Agr., Div. Chem., Rept. Dominion Chemist (1928).*



**Poultobac**

See Nicotine Dusts.

**Poultry House Spray**

(PURITY CHEMICAL PRODUCTS CO., SANTA ROSA, CAL.)

Guaranteed: Phenols 25.00 percent; base, sediment and moisture 2.00 percent.

Found: Phenols 25.00 percent; mineral oils 53.90 percent; water 0.40 percent.

*Cal. Dept. Agr., Spec. Pub. 75, 56 (1927).*

**Pratt's Carboleine**

See Oil Emulsions, Mineral.

**Pratt's Dip & Disinfectant****Pratt's Disinfectant**

See Phenol Soap Solutions.

**Pratt's Lice Killer**

(PRATT FOOD CO.)

	Guaranteed	Found
Nicotine.....	0.34	0.72
Naphthalene.....	5.60	5.88
Pyrethrum.....	4.00	....

*Cal. Dept. Agr., Spec. Pub. 75, 40 (1927).*

**Pratt's Poultry Worm Powder**

(PRATT FOOD CO.)

Found: Nicotine 0.92 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 36 (1930).*

**Pratt's Red Mite Special**

(PRATT FOOD CO., LOS ANGELES, CAL.)

Guaranteed: Water 1.00 percent.

Found: Phenols 6.33 percent; tar oils 80.80 percent; mineral oils 12.00 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 71 (1930).*

**Pratt's Roost Paint**

(PRATT FOOD CO., PHILADELPHIA, PA.)

Guaranteed: Nicotine 4 percent; phenols 2 percent; boric acid 1 percent; inert 87 percent.

Found: Nicotine 4.20 percent.—*Conn. Agr. Expt. Sta., Sample 7223.*

**Preemol****Premek Oil Emulsion Medium****Premier A-1 Spray Emulsion****Premier Medium**

See Oil Emulsions, Mineral.

**Premium Intestinal Cleaner**

(GERMAIN SEED & PLANT CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Sodium bicarbonate.....	15.00	15.84

*Cal. Dept. Agr., Spec. Pub. 75, 65 (1927).*

**Preparation B**

(THE INSECTICIDE CO., SAN FRANCISCO, CAL.)

Guaranteed: Inert matter, trace of butter color.

Found: Mineral oils 10.00 percent; yellow color present; no ash.

*Cal. Dept. Agr., Spec. Pub. 51, 60 (1925).*

**Preparation No. 3**

See Sodium Fluoride.

**Preparation No. 5**

(THE INSECTICIDE CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found	Guaranteed	Found
Calcium arsenate.....	7.00	3.48	3.25	3.80
Calcium arsenite.....	1.00	2.83	2.50	2.71

*Cal. Dept. Agr., Spec. Pub. 75, 26 (1927).***Prussic Acid**

See Hydrocyanic Acid.

**P. S. C. Condensed Rosin Spray****P. S. C. Fish Oil Soap**

See Soap.

**Pulvex**

(WILLIAM COOPER &amp; NEPHEWS, INC., CHICAGO, ILL.)

Guaranteed: Tuba toxin and allied compounds 2.4 percent; inert 97.6 percent.

Found: Finely pulverized mineral matter; no insecticide.—*Maine Agr. Expt. Sta., Official Inspections 142, 118 (1931).***Purex**

(PUREX CHEMICAL CORPORATION, LOS ANGELES, CAL.)

	Guaranteed	Found
Available chlorine.....	4.50	5.03

*Cal. Dept. Agr., Spec. Pub. 101, 81 (1930).***"Purfeck" Chickweed Eliminator**

(ADALINK CHEMICAL CO., NEWARK, N. J.)

## ESTIMATED COMPOSITION:

Sodium arsenite.....	1.17
Soap.....	0.24
Water.....	98.22
Blue-green dye and undetermined.....	0.37

*Conn. Agr. Expt. Sta., Sample 2787:***Puritol**

See Albatross Puritol.

**Purity**

(PURITY CHEMICAL PRODUCTS CO.)

Sodium hypochlorite.....	4.00	4.24
Available chlorine.....	.....	4.04

*Cal. Dept. Agr., Spec. Pub. 5, 671 (1927).***Pyrethro Fly Fluid**

(W. T. RALEIGH CO., FREEPORT, ILL.)

Not analyzed.

*Cal. Dept. Agr., Spec. Pub. 58, 48 (1925).***Pyrethrum**

See Table XXVIII.

**Pyrote**

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

Guaranteed: Extract of pyrethrum 5 percent; extract of Cubé root 5 percent.

Found: Solids 56.23 percent; ether extract 55.25 percent; chloroform extraction of ether extract 22.64 percent.—*Maine Agr., Expt. Sta., Official Inspections* 150, 124 (1933).**Pyrox**

See Bordeaux Mixture-Lead Arsenate.

**Q****Qua-Sul**

(A. R. GREGORY, SAN FRANCISCO, CAL.)

	Guar.	Found	Guar.	Found	Guar.	Found
Sodium polysulphide.....	.....	7.04	.....	8.00	4.45	7.24
Sodium thiosulphate.....	.....	3.04	.....	3.17	7.16	3.60
Active sulphur.....	.....	.....	6.00	.....	.....	.....
Baumé gravity.....	.....	19.00	.....	20.50	.....	19.00

*Cal. Dept. Agr., Spec. Pub. 66, 23 (1926).***Q. B. Dust**

See Bonide Q. B. Dust.

**Quick Action Fly Killer**

(QUICK ACTION PRODUCTS CO., BELL, CAL.)

	Guaranteed	Found
Baumé gravity, 15.5°C.....	.....	39.90
Mineral oil.....	.....	96.74
Methyl salicylate.....	3.00	2.49

*Cal. Dept. Agr., Spec. Pub. 51, 55 (1925).***Quick Action Lice Powder**

(QUICK ACTION PRODUCTS CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Cresol oil (Phenols).....	1.00	0.05
Hydrocarbons.....	10.00	.....
Naphthalene.....	.....	5.92
Sodium fluoride.....	10.00	8.20
Inert matter.....	79.00	.....

*Cal. Dept. Agr., Spec. Pub. 51, 59 (1925).***Qykade**

(THE CHLORINE PRODUCTS CO., NEW YORK, N. Y.)

Found: Grams per 100 cc. total solids 1.26; available chlorine 0.40; total chlorine, 0.71; calcium oxide, 0.64 percent. Substance is a mixture of calcium hypochlorite and calcium chloride in solution.

*Conn. Agr. Expt. Sta., Bul. 258, 376 (1924).***R****Rajah Argentine Ant Poison**

(THE OWL DRUG CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Total arsenic, metal.....	0.20	0.16
Water-soluble arsenic, metal.....	0.20	0.16

*Cal. Dept. Agr., Spec. Pub. 34, 18 (1923).*

**"Rat-Bis-Kit"**

(THE RAT BISCUIT CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Arsenic.....	5.00	8.53

*Cal. Dept. Agr., Spec. Pub. 101, 22 (1930).*

**Rat Bis-Kit Paste***See Phosphorus Preparations.***Rat-Ex**

(CHEMICAL SPECIALTIES CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Barium carbonate.....	20.00	26.21
Inert matter.....	80.00	....

*Cal. Dept. Agr., Spec. Pub. 66, 34 (1926).*

**Rat-Go***See Leinen.***Rat-Mum****Rat-Nip****Rat Poison (Mission)***See Phosphorus Preparations.***Rat Scent***See Strychnine Preparations.***Rat Tex**

(CALIFORNIA REX SPRAY CO., WATSONVILLE, CAL.)

	Guaranteed	Found
Arsenious oxide.....	30.00	31.66

*Cal. Dept. Agr., Spec. Pub. 75, 26 (1927).*

**Rat Tox**

(TOLEDO REX SPRAY CO., TOLEDO, O.)

	Guaranteed	Found
Arsenious oxide.....	30.00	37.00
Inert.....	70.00	....

*Maine Agr. Expt. Sta., Official Inspections 142, 120 (1931).*

**Ravol***See Phenol Soap Solutions.***Rawleigh's Insect Powder***See Pyrethrum.***Rawleigh's Louse Powder**

(W. T. RAWLEIGH CO., FREEPORT, ILL.)

Not analyzed.

*Cal. Dept. Agr., Spec. Pub. 58, 48 (1925).***Rawleigh's Stock Dip & Disinfectant***See Phenol Soap Solutions.***Red Arrow Insect Spray**

(MC CORMICK &amp; CO., BALTIMORE, MD.)

Guaranteed: Water 37 percent; resin 30 percent.  
 Found: Water 37.5 percent; total ash 6.46 percent; non-soap ash 3.63 percent; soap 13.19 percent; chloroform extract 51.74 percent.—*Conn. Agr. Expt. Sta., Bul. 346, 253 (1933).*

**Red Cedar Compound for Moths**

(COOK, EVERETT &amp; PENNELL, PORTLAND, MAINE)

Guaranteed: Composed of red cedar shavings, lavender and naphthalene.

Found: Red cedar shavings, lavender flowers and naphthalene present.—*Maine Agr. Expt. Sta., Official Inspections 134, 116 (1929).***Red Cross Ant Destroyer**

(RED CROSS CHEMICAL CO., CINCINNATI, OHIO.)

Found: Borax 11.07 percent; calcium oxide 13.12 percent; sulphur trioxide 18.56 percent; gypsum and sassafras root present.

*U. S. D. A., Bur. Chem., Bul. 68, 43 (1902).***Red Label Sheep Dip**

See Phenol Soap Solutions.

**Redoilo**

See Oil Emulsions, Mineral.

**Reilly Transparent Penetrating Creosote**

(REILLY TAR &amp; CHEMICAL CORP., NEW YORK, N. Y.)

Sample contains about 85 percent gasoline; the balance is probably coal-tar creosote.—*Conn. Agr. Expt. Sta., Sample 3808.***Reliance Argentine Ant Poison**

(LANGLEY &amp; MICHAELS CO., SAN FRANCISCO, CAL.)

Guaranteed: Arsenic, metal 0.11 percent; sodium arsenite 0.20 percent.

Found: Arsenic, metal 0.13 percent; sodium arsenite 0.22 percent; invert sugar 7.88 percent; cane sugar 40.29 percent; dextrin, etc., 1.82 percent; water 47.67 percent.

*Cal. Dept. Agr., Spec. Pub. 58, 16 (1925).***Renol**

See Oil Emulsions, Mineral.

**Revenge Lice Destroyer**

(I. D. RUSSELL CO.)

	Guaranteed	Found
Naphthalene.....	2.00	3.57
Sulphur.....	5.00	5.35
Phenols.....	.....	0.80
Phenol and creosote.....	5.00	5.92

*Cal. Dept. Agr., Spec. Pub. 75, 41 (1927).***Rex Emulso**

See Oil Emulsions, Mineral.

**Rex Fly Tox**

(CALIFORNIA REX SPRAY CO., BENICIA, CAL.)

Guaranteed: Active ingredients 100.00 percent.

Found: Specific gravity, 0.8147; oil 100.00 percent; no water or ash; kerosene 92.50 percent; safrole present.

*Cal. Dept. Agr., Spec. Pub. 51, 56 (1925).***Rex Lye**

(CUDAHY PACKING CO.)

	Guaranteed	Found
Sodium hydroxide.....	94.00	84.40
Sodium carbonate.....	2.00	3.18

*Cal. Dept. Agr., Spec. Pub. 101, 83 (1930).*

**Rex Miscible Oil****Rex Oil A****Rex Oil B**

See Oil Emulsions, Mineral.

**Rex-Sul-Powder**

See Sulphur.

**Rex Toxol****Rex Vulture Oil**

See Oil Emulsions, Mineral.

**Rid-O-Germ**

(WESTERN CHEMICAL CO., INC.)

	Guaranteed	Found
Available chlorine .....	.....	2.68
Water .....	87.28	87.45

*Cal. Dept. Agr., Spec. Pub. 75, 61 (1927).*

**Rip Van Winkle Fly Spray**

See Oils, Mineral.

**Roach Ded**

(MIDWAY CHEMICAL CO., CHICAGO, ILL.)

	Guaranteed	Found
Borax .....	53.00	58.52
Pyrethrum flowers .....	7.00	.....
Sulphur .....	27.00	23.86
Inert .....	13.00	.....

*Maine Agr. Expt. Sta., Official Inspections 142, 119 (1931).*

**Roach Doom**

See Murray.

**Roach-Ex**

(CHEMICAL SPECIALTIES CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Sodium fluoride .....	77.34	79.55
Pyrethrum .....	7.86	.....
Organic matter .....	.....	10.30

*Cal. Dept. Agr., Spec. Pub. 101, 78 (1930).*

**Roach Liquid**

(THE PIED PIPER SERVICE, PROVIDENCE, R. I.)

Found: Substance is a mixture of kerosene and methyl salicylate.  
*Conn. Agr. Expt. Sta., Bul. 258, 376 (1924).*

**Roach Powder**

(THE PIED PIPER SERVICE, PROVIDENCE, R. I.)

Found: Water 14.57 percent; nitrogen 0.50 percent; protein 3.13 percent; starch 13.73 percent; ash 40.60 percent; sodium oxide 18.89 percent; boric oxide 18.32 percent; chloride 5.12 percent; traces of silica, iron, sulphate and phosphate. The substance is a mixture of a cereal, borax and salt.

*Conn. Agr. Expt. Sta., Bul. 258, 376 (1924).*



**Roach Powder**

(SOUTHERN CALIFORNIA DISINFECTING CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Sodium fluoride.....	80.00	82.21
Pyrethrum.....	10.00	.....
Organic matter.....	.....	8.10

*Cal. Dept. Agr., Spec. Pub. 101, 79 (1930).***Roachsault**

See Sodium Fluoride.

**Rose Dust**

(DURBOCIDE CHEM. &amp; MACHINE CORP., PORTLAND, OREG.)

	Guaranteed	Found
Total arsenic, metal.....	4.4	3.1
Copper.....	8.1	9.2

*Oreg. Agr. Expt. Sta., Cir. 95, 14 (1929).***Rosin Spray**

See Soaps.

**Rotenone Dust**

(MANUFACTURER UNKNOWN)

(See also "Cubor Dust," "Ku-Ba-Tox").

	Guaranteed	Found
Rotenone.....	0.75	1.72

*Conn. Agr. Expt. Sta., Sample 2424.***Rotenone Dust**

(MANUFACTURER UNKNOWN)

Rotenone 0.67 percent.—*Conn. Agr. Expt. Sta., Sample 2708.***Rotenone Dust**

(MANUFACTURER UNKNOWN)

Rotenone 1.5 percent.—*Conn. Agr. Expt. Sta., Sample 2968.***Rotenone Dust or Spray**

(NIAGARA SPRAYER &amp; CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Rotenone.....	2.25	.....
Sulphur.....	25.00	29.52
Inert.....	72.715	.....

*Maine Agr. Expt. Sta., Official Inspections 158, 140 (1935).***Ro-Tone**

(LUCAS KIL-TONE CO., VINELAND, N. J.)

Guaranteed: Rotenone 0.75 percent; other ether extractions of cubé or derris 1.50 percent; inert 95.75 percent.

Found: Ether extractive matter 4.14 percent.—*Maine Agr. Expt. Sta., Official Inspections 158, 140 (1935).***Rough-on-Rats Poison**

(E. S. WELLS, CHEMIST, JERSEY CITY, N. J.)

Found: Arsenic trioxide 96.0 percent.—*Maine Agr. Expt. Sta., Official Inspections 138, 107 (1930).*

**R-Own Mix**

(HADSSELL TRACTOR AND IMPLEMENT CO., VINELAND, N. J.)

	Guaranteed	Found
Sulphur.....	64.00	63.83

*N. J. Agr. Expt. Sta., Bul. 594, 7 (1935).*

**S****Salairacine**

(J. D. MC GREGOR, STAMFORD, CONN.)

Two Samples:

## Sample 17745

Found: Moisture 0.90 percent; acid-insoluble matter, 0.56 percent; nitrate nitrogen none; lead oxide 24.21 percent; arsenic oxide 11.73 percent; iron and aluminum oxides 0.50 percent; calcium oxide 25.64 percent; magnesium oxide 17.33 percent; carbon dioxide (by difference) 19.13 percent.

## Sample 19740

Found: Nitrate nitrogen 1.95 percent; arsenic oxide 10.54 percent; calcium oxide 17.67 percent.

*Conn. Agr. Expt. Sta., Bul. 242, 161 (1922).*

**Sanders Blue Dust 5-11**

See Bordeaux Mixture.

**Sander's Dust**

(MANUFACTURER UNKNOWN)

Found: Copper 6.10 percent; arsenic 2.93 percent. Arsenic is present as calcium arsenate.

*Conn. Agr. Expt. Sta., Bul. 258, 370 (1925).*

**Sani Chlor**

(CROWN PRODUCTS CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Available chlorine.....	4.50	4.85

*Cal. Dept. Agr., Spec. Pub. 101, 80 (1930).*

**Sanifume Crystals**

See Paradichlorbenzene

**San José Summer Oil**

See Oil Emulsions, Mineral.

**Santo-chlor**

See Paradichlorbenzene.

**Sapho "Fly X"**

(THE KENNEDY MFG. CO., MONTREAL, CANADA.)

Found: Specific gravity, 19° C., 0.844; flash point 67° C.; fire point 77° C.; residue at 100° C., 0.15 percent; methyl salicylate 2.08 percent. Base is kerosene.

*Canada Dept. Agr., Div. Chem., Rept. Dominion Chemist (1928).*



**Sapho Liquid**

(THE KENNEDY MFG. CO., MONTREAL, CANADA.)

Found: Specific gravity, 19° C., 0.844; flash point 67° C.; fire point 78° C.; residue at 100° C., 0.81 percent; phenol 1.68 percent. Base is kerosene. *Canada Dept. Agr., Div. Chem., Rept. Dominion Chemist (1928).*

**Sarpa Poultry Spray**

See Oil Emulsions, Mineral.

**Sa-Si**

(WALTER S. LAPP, LANSDALE, PA.)

Sample is a mixture of ammonium sulphate and ferrous sulphate.—*Conn. Agr. Expt. Sta., Sample 9089.*

**Scalecide with Fungicide**

See Oil Emulsions, Mineral.

**Scalybark Insecticide**

(DR. MESSIG, SANTA ANA, CAL.)

Found: Water 82.92 percent; solids 17.08 percent; lime-sulphur 3.00 percent; sodium chloride 3.50 percent; soap 3.00 percent; free sulphur and vegetable matter, etc. 4.30 percent; no lead; a minute quantity of arsenic. The substance is partly a yellow liquid and partly a black solid containing some small leaves; it has an ammoniacal odor.

*Cal. Dept. Agr., Spec. Pub. 34, 57 (1923).*

**Schnarr's Insecticide**

See Oil Emulsions, Mineral.

**Schrader Argentine Ant Powder**

(SCHRADER CHEMICAL CO., SAN FRANCISCO, CAL.)

Guaranteed: Sodium fluoride 68.00 percent; sodium acid fluoride 8.00 percent; all closed dalmatian flowers 7.20 percent.

Found: Total fluorine 38.33 percent.

*Cal. Dept. Agr., Spec. Pub. 75, 63 (1927).*

**Schrader's Argentine Ant Syrup**

(SCHRADER CHEMICAL CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Arsenious oxide . . . . .	0.20	0.20

*Cal. Dept. Agr., Spec. Pub. 75, 24 (1927).*

**Schrader's Red Ant Powder**

(SCHRADER INSECT POWDERS CO., SAN FRANCISCO, CAL.)

Guaranteed: Sodium fluoride 55.00 percent; sodium acid fluoride 10.00 percent; all closed dalmatian flowers 20.00 percent; inert matter 15.00 percent.

Found: Total fluorine 30.14 percent; organic matter 21.13 percent.

*Cal. Dept. Agr., Spec. Pub. 66, 37 (1926).*

**Scott & Gilbert Sheep Dip**

See Phenol Soap Solutions.

**Seal Oil**

See Oils, Mineral.

**"Selby" Copper Sulfate**

See Copper Sulphate.

**Selenine**

(CHARLES DICKENS, OAKLAND, CAL.)

Found: Barium polysulphide 4.33 percent; barium thiosulphate 0.39 percent; selenium 0.23 percent; tellurium trace.

*Cal. Dept. Agr., Spec. Pub. 58, 50 (1925).*

**Semesan**

(BAYER-SEMESAN CO., NEW YORK, N. Y.)

	Guaranteed	Found
Hydroxymercurichlorphenol.....	30.00	32.74
Mercury.....	.....	18.98
Inert.....	70.00	.....

*Maine Agr. Expt. Sta., Official Inspections 142, 119 (1931).*

**Semesan**

(E. I. DUPONT DE NEMOURS &amp; CO., INC., WILMINGTON, DEL.)

Guaranteed: Hydroxymercurichlorphenol 35 percent; inert matter 65.00 percent.

Found: Mercury 21.32 percent; hydroxymercurichlorphenol 36.68 percent; ash 66.30 percent; calcium oxide 16.72 percent; silica 0.68 percent; iron and aluminum oxides 0.35 percent; magnesium oxide 0.35 percent; carbon dioxide 16.79 percent. The mercury compound is para-hydroxymercuri-ortho-chlorphenol, probably present as the sodium salt. The inert matter is probably a mixture of calcium hydroxide and sodium carbonate.

*Conn. Agr. Expt. Sta., Bul. 300, 339 (1929).*

**Semesan Bel**

(BAYER-SEMESAN CO., INC., NEW YORK, N. Y.)

Guaranteed: Hydroxymercurinitrophenol 12 percent; hydroxymercurichlorphenol 2 percent; inert 86 percent.

Found: Mercury 9.09 percent.—*Maine Agr. Expt. Sta., Official Inspections 142, 118 (1931).*

**Semesan Bel**

(E. I. DUPONT DE NEMOURS &amp; CO., INC., WILMINGTON, DEL.)

Guaranteed: Hydroxymercurichlorphenol 10.00 percent.

Found: Mercury 6.52 percent.

*Cal. Dept. Agr., Spec. Pub. 75, 62 (1927).*

**Semesan Jr.**

(BAYER-SEMESAN CO., INC., NEW YORK, N. Y.)

Guaranteed: Hydroxymercuricresol 12 percent; inert 88 percent.

Found: Mercury 6.79 percent.—*Maine Agr. Expt. Sta., Official Inspections 142, 118 (1931).*

**Sergeant's Disinfectant**

See Phenol Soap Solutions.

**75-5-20**

(J. R. GILLAM &amp; BRO., BURLINGTON, N. J.)

Found: Total arsenic (metal) 1.28 percent; water-soluble arsenic (metal) 0.26 percent; sulphur 72.00 percent.—*N. J. Agr. Expt. Sta., Bul. 441, 11 (1926).*

**75-5-20**

(LUCAS-KIL-TONE CO., VINELAND, N. J.)

Found: Total arsenic (metal) 1.46 percent; water-soluble arsenic (metal) 0.11 percent; sulphur 72.34 percent.—*N. J. Agr. Expt. Sta., Bul. 530, 13 (1931).*

## 70-10-20

(J. R. GILLAM &amp; BRO., BURLINGTON, N. J.)

Total arsenic, metal.....	1.80	1.80
Water-soluble arsenic, metal.....	.....	0.30
Sulphur.....	68.00	69.69

*N. J. Agr. Expt. Sta., Bul. 441, 11 (1926).*

## 70-10-20 Mixture

See Niagara Mixture No. 150.

## 70-10-20 Sulphur Lead-Lime Dust

(LUCAS-KIL-TONE CO., VINELAND, N. J.)

Guaranteed: Sulphur 70.00 percent.

Found: Sulphur 66.48 percent; total arsenic 1.93 percent; water-soluble arsenic 0.26 percent.

*N. J. Agr. Expt. Sta., Bul. 459, 11 (1927).*

## 70-30 Dust

(CHAMBERLIN &amp; BARCLAY, INC., CRANBURY, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	7.75	8.58
Water-soluble arsenic, metal.....	0.50	0.12

*N. J. Agr. Expt. Sta., Bul. 594, 10 (1935).*

## 70-20-10 Dusting Mixture

(MECHLING BROS. CHEMICAL CO., CAMDEN, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	2.00	2.65
Water-soluble arsenic, metal.....	0.50	0.12
Sulphur.....	69.00	65.47

*N. J. Agr. Expt. Sta., Bul. 459, 12 (1927).*

## S 440 Bluestone Mixture

See Bordeaux Mixture.

## S. &amp; G. Sheep Dip

## Sheep Dip

See Phenol Soap Solutions.

## Sherwin-Williams Basic Copper Sulphate

See Copper Sulphate.

## Sherwin-Williams Copper Lime Dust

See Bordeaux Mixture.

## Sherwin-Williams Light Oil No. 50

## Sherwin-Williams Medium Oil No. 65

See Oil Emulsions, Mineral.

## Sherwin-Williams Nicotine Dust

See Nicotine Dusts.

## Sherwin-Williams Oil No. 60

See Oil Emulsions, Mineral.

## Sherwin-Williams Pestroy

(SHERWIN-WILLIAMS CO., CLEVELAND, O.)

	Guaranteed	Found
Total arsenic, metal.....	2.80	3.13
Copper.....	11.00	11.36

*Maine Agr. Expt. Sta., Official Inspections 150, 122 (1933).*

**Sherwin-Williams Pheno-Dip**

See Phenol Soap Solutions.

**Sherwin-Williams Rose-Aid**

(SHERWIN-WILLIAMS CO., CLEVELAND, O.)

	Guaranteed	Found
Sulphur.....	86.	87.2
Dry lime sulphur.....	2.5	.....
Calcium arsenate.....	3.5	.....
Total arsenic, metal.....	1.3	2.08

*Maine Agr. Expt. Sta., Official Inspections 154, 136 (1934).***Sherwin-Williams Sulfur Lead Dust 85-15**

(SHERWIN-WILLIAMS CO., CLEVELAND, O.)

	Guaranteed	Found
Total arsenic, metal.....	3.17	3.84
Sulphur.....	83.00	83.56

*Maine Agr. Expt. Sta., Official Inspections 146, 136 (1932).***Sinclair Chieftain Brand Chlorinated Lime**

(SINCLAIR MANUFACTURING CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Available chlorine.....	24.00	32.25

*Cal. Dept. Agr., Spec. Pub. 101, 81 (1930).***Sin-O-Ior**

(HUGH KNIGHT, RIVERSIDE, CAL.)

Found: Substance is a purple liquid containing nearly 1 percent potassium permanganate and 0.62 percent sodium sulphate.

*Cal. Dept. Agr., Spec. Pub. 34, 58 (1923).***S. J. Nicotine Dust**

See Nicotine Dusts.

**Skalene****Skalol**

See Oil Emulsions, Mineral.

**Skinner's Arsenate Bordeaux**

See Bordeaux Mixture-Lead Arsenate.

**Skinner's Special 30-70 Copper Lime Dust**

See Bordeaux Mixture.

**S. L. J. C. Insecticide**

(S. L. JONES CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Water.....	77.00	79.20

*Cal. Dept. Agr., Spec. Pub. 101, 76 (1930).***Slugall**

(GERMAIN SEED &amp; PLANT CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Nicotine.....	0.10	0.12
Total arsenious oxide.....	1.00	0.37
Water-soluble arsenious oxide.....	0.63	0.25
Naphthalene.....	5.00	1.10

*Cal. Dept. Agr., Spec. Pub. 75, 38 (1927).*

**Slug Shot**

(HAMMOND'S SLUG SHOT WORKS, BEACON, N. Y.)

	Guaranteed	Found
Free sulphur.....	6.00	.....
Total arsenic, metal.....	0.79	0.89
Water-soluble arsenic, metal.....	trace	0.12
Copper.....	0.91	1.01
Nicotine.....	trace	0.04
Crude carbolic acid.....	0.40	present

Copper sulphate and copper arsenate declared present.

*Conn. Agr. Expt. Sta., Bul. 242, 159 (1922).***Slug Slugger**

(MICHEL &amp; PELTON CO.)

	Guaranteed	Found
Calcium arsenate.....	3.00	4.76

*Cal. Dept. Agr., Spec. Pub. 75, 27 (1927).***Small's Ant Syrup**

(SMALL'S SEED CO., RIVERSIDE, CAL.)

	Guaranteed	Found
Arsenic.....	0.10	0.17

*Cal. Dept. Agr., Spec. Pub. 101, 20 (1930).***Small's Aphis Spray**

(SMALL'S SEED CO., RIVERSIDE, CAL.)

	Guaranteed	Found
Nicotine.....	2.50	2.61
Soap.....	11.75	8.97
Water.....	84.75	85.33

*Cal. Dept. Agr., Spec. Pub. 101, 38 (1930).***Small's Cold Spray**

(SMALL'S SEED CO., RIVERSIDE, CAL.)

	Guaranteed	Found
Water.....	12.00	0.40

*Cal. Dept. Agr., Spec. Pub. 101, 84 (1930).***Small's Dip and Disinfectant**

See Phenol Soap Solutions.

**Small's Louse Powder**

(SMALL'S SEED CO., RIVERSIDE, CAL.)

	Guaranteed	Found
Nicotine.....	0.40	0.55
Sulfur.....	40.00	43.95
Sodium fluoride.....	20.00	18.22

*Cal. Dept. Agr., Spec. Pub. 101, 35 (1930).***Small's Snail Poison**

(SMALL'S SEED CO., RIVERSIDE, CAL.)

	Guaranteed	Found
Calcium arsenate.....	2.80	3.80

*Cal. Dept. Agr., Spec. Pub. 75, 27 (1927).***Snail-A-Tor**

(SNAIL-A-TOR LABORATORY, PASADENA, CAL.)

Found: Calcium carbonate 56.10 percent; calcium sulfate 0.96 percent; calcium oxide 27.70 percent; borax ( $\text{Na}_2\text{B}_4\text{O}_7$ ) 9.80 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 86 (1930).*

**Snaillex**

(THE FERTILSPRAY CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Ferrous sulphate.....	20.00	20.06
Ferric sulphate.....	20.00	32.39
Copper sulphate.....	0.45	1.25

*Cal. Dept. Agr., Spec. Pub. 75, 45 (1927).***Snail Foil**

(AN-FO MFG. CO.)

	Guaranteed	Found
Free sulphur.....	3.00	2.88
Phenols.....	2.00	2.28
Sodium fluoride.....	1.00	1.36
Mineral oil.....	8.00	8.77

*Cal. Dept. Agr., Spec. Pub. 75, 40 (1927).***Snail Poison***See Small's Snail Poison.***Snarol**

(THE ANTROL LABORATORIES, INC., LOS ANGELES, CAL.)

	Guaranteed	Found
Calcium arsenate.....	3.50	5.17
Total arsenic, metal.....	1.32	1.95
Inert matter.....	96.50	....

*Conn. Agr. Expt. Sta., Bul. 300, 342 (1929).***Snarol Kills Cutworms**

(ANTROL LAB., INC., LOS ANGELES, CAL.)

Guaranteed: Tricalcium arsenate 4 percent.

Found: Total arsenic (metal) 3.19 percent.—*Maine Agr. Expt. Sta., Official Inspections 150, 124 (1933).***Soap***See Table XXIX and "Super-Suds."***Soapstone***See Talc.***Soap, Sulfo-Tobacco Plant & Animal***See Nicotine Soaps.***Soap, Sulpho-Tobacco***See Sulpho-Tobacco Soap.***Soap, Tobacco***See Nicotine Soaps.***Soda-Sulfur Compound**

(W. C. COLLINS, SAN FRANCISCO, CAL.)

Found: Water-soluble matter 68.44 percent; sodium polysulphide 0.80 percent.

*Cal. Dept. Agr., Spec. Pub. 34, 32 (1923).***Sodium Arsenate***See Holmerden Weed Destroyer.*



**Sodium Arsenite Solution**

(SCIENTIFIC PEST CONTROL LABORATORIES, ALTADENA, CAL.)

	Guaranteed	Found
Arsenic trioxide . . . . .	30.00	30.07
Sodium hydroxide . . . . .	10.00	13.20

*Cal. Dept. Agr., Spec. Pub. 101, 18 (1930).***Sodium Arsenite Solution**

See also B E Standard Sodium Arsenite Solution; McEverlast Sodium Arsenite; Mission Sodium Arsenite Solution; Phar-O-Termite Spray.

**Sodium Fluoride**

See Table XXX.

**Sodium Fluosilicate**

(VIRGINIA-CAROLINA CHEMICAL CORP., RICHMOND, VA.)

Found: Sodium fluosilicate 79.39 percent; sodium fluoride 16.45 percent; sodium carbonate 0.75 percent; undetermined 3.41 percent.

*Conn. Agr. Expt. Sta., Bul. 300, 342 (1929).*

See also "Flu-Si" Dust.

**Sodium Hydroxide**

See B. T. Babbitt's Concentrated Lye; Fort Industry Brand Lye; Holly Brand Lye; King Pin Brand Lye; Rex Lye.

**Sodium Hypochlorite Solution**

(MANUFACTURER UNKNOWN)

Found: Available chlorine 2.19 percent; sodium hypochlorite 2.30 percent.  
—*Conn. Agr. Expt. Sta., Bul. 346, 260 (1933).*

**Soilogen**

(ROSE MFG. CO., PHILADELPHIA, PA.)

ESTIMATED COMPOSITION:

Sand . . . . .	27.30
Ferrous Sulphate ( $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$ ) . . . . .	25.24
Ferric Sulphate [ $\text{Fe}_2(\text{SO}_4)_3 \cdot 5\text{H}_2\text{O}$ ] . . . . .	3.38
Dolomitic Limestone ( $\text{CaCO}_3 + \text{MgCO}_3$ ) . . . . .	12.81
Tobacco Stems . . . . .	31.27

*Conn. Agr. Expt. Sta., Sample 1589.***Solbar**

See Barium Tetrasulphide.

**Solite Spray**

See Oil Emulsions, Mineral.

**Sol-o-cree**

See Phenol Soap Solutions.

**Soluble Arsenoid**

See Watson.

**Soluble Oil****Soluble Oil Spray**

See Oil Emulsions, Mineral.

**Soluble Sulphur Compound**

See "Niagara Soluble Sulphur Compound."

**Soluble Sulphur Solution**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found	Guaranteed	Found
Soluble sulphur.....	58.00	58.21	57.00	58.16

*N. Y. Agr. Expt. Sta., Bul. 384, 296 (1924).*

**Solution of Cresol**

See Phenol Soap Solutions.

**S. O. S. Sterling Oil Spray**

See Oil Emulsions, Mineral.

**Sow-Bug Destroyer**

(CHAS. C. NAVLET CO., SAN FRANCISCO, CAL.)

Guaranteed: Copper aceto-arsenite 8.00 percent.

Found: Arsenious oxide 10.94 percent.

*Cal. Dept. Agr., Spec. Pub. 75, 27 (1927).***Sow-Bug-Go**

See Leinen.

**Sow-Bug-Killer**

(SAN JOSE SPRAY MFG. CO., SAN JOSE, CAL.)

Guaranteed: Copper aceto-arsenite 8.00 percent.

Found: Arsenious oxide 10.76 percent.

*Cal. Dept. Agr., Spec. Pub. 75, 27 (1927).***S. P. Calatine**

(NIAGARA SPRAYER &amp; CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Arsenic oxide.....	5.60	8.83

*Oreg. Agr. Expt. Sta., Cir. 106, 16 (1931).*

**Special Dry Mix**

(THE KIL-TONE CO., VINELAND, N. J.)

Found: Sulphur 54.64 percent.

*N. J. Agr. Expt. Sta., Bul. 441, 7 (1926).***Special Filled Capsules No. 173935**

(ELI LILLY &amp; CO., INDIANAPOLIS, IND.)

Found: Nicotine 15.82 percent.

*Cal. Dept. Agr., Spec. Pub. 66, 26 (1926).***Special Kolo Peach**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	1.95	2.30
Water-soluble arsenic, metal.....	0.50	0.15
Sulphur.....	64.00	66.92

*N. J. Agr. Expt. Sta., Bul. 478, 13 (1928).***Special Mixture**

(ROONEY &amp; ELY CO., INC., ENGLISHTOWN, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	6.00	6.68
Water-soluble arsenic, metal.....	0.50	0.08

*N. J. Agr. Expt. Sta., Bul. 594, 16 (1935).*



**Special Mixture**

(I. SERATA &amp; SONS, BRIDGETON, N. J.)

	Guaranteed	Found
Sulphur.....	64.00	58.07

*N. J. Agr. Expt. Sta., Bul. 594, 7 (1935).*

**Special Mixture 50-10-10**

(I. SERATA &amp; SONS, BRIDGETON, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	3.71	4.83
Water-soluble arsenic, metal.....	.....	0.23
Sulphur.....	10.00	14.42

*N. J. Agr. Expt. Sta., Bul. 556, 18 (1933).*

**Special Mixture 40-60**

(I. SERATA &amp; SONS, BRIDGETON, N. J.)

Found: Total arsenic (metal) 10.55 percent; water-soluble arsenic (metal) 0.11 percent.—*N. J. Agr. Expt. Sta., Bul. 577, 14 (1934).*

**Special Mixture M 163***See Nicotine Dusts.***Special Mixture No. M 62**

(NIAGARA SPRAYER &amp; CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	5.20	5.91
Water-soluble arsenic, metal.....	0.50	0.11

*N. J. Agr. Expt. Sta., Bul. 530, 15 (1931).*

**Special Mixture No. 119***See Bordeaux Mixture-Lead Arsenate.***Special Mixture No. 161 Potato Dust**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	7.40	8.65
Water-soluble arsenic, metal.....	0.50	0.22
Copper.....	6.00	7.31

*N. J. Agr. Expt. Sta., Bul. 407, 14 (1914).*

**Special Mixture No. 127**

(NIAGARA SPRAYER &amp; CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	3.90	4.68
Water-soluble arsenic, metal.....	0.50	0.15
Sulphur.....	77.00	79.50

*N. J. Agr. Expt. Sta., Bul. 530, 15 (1931).*

**Special Mixture No. 275**

(NIAGARA SPRAYER &amp; CHEMICAL CO. INC., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	1.95	2.27
Water-soluble arsenic, metal.....	0.50	0.04
Sulphur.....	64.00	64.38

*N. J. Agr. Expt. Sta., Bul. 485, 15 (1929).*

**Special Mixture No. 274***See Nicotine Dusts.*

**Special Mixture No. 210**

(NIAGARA SPRAYER &amp; CHEMICAL CO., INC., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal . . . . .	7.80	8.28
Water-soluble arsenic, metal . . . . .	0.50	0.15
Copper . . . . .	6.80	7.18

*N. J. Agr. Expt. Sta., Bul. 513, 16 (1930).***Special Mixture No. 221**

See Nicotine Dusts.

**Special Mixture 154 A**

See Nicotine-Sulphur Dusts.

**Special Mixture 70-15-5-10**

(I. SERATA &amp; SONS, BRIDGETON, N. J.)

Found: Total arsenic (metal) 3.89 percent; water-soluble arsenic (metal) 0.19 percent; copper 3.51 percent; sulphur 7.25 percent. —*N. J. Agr. Expt. Sta., Bul. 577, 14 (1934).*

**Special Mixture S 155 A**

See Nicotine-Sulphur Dusts.

**Special Mixture 20-20-60**

(ROONEY &amp; ELY CO., INC., ENGLISHTOWN, N. J.)

	Guaranteed	Found
Total arsenic, metal . . . . .	5.00	5.70
Water-soluble arsenic, metal . . . . .	0.50	0.08
Copper . . . . .	7.00	7.07

*N. J. Agr. Expt. Sta., Bul. 594, 15 (1935).***Special 210 Dust Mixture**

See Nicotine Dusts.

**Spratt's Dip**

See Phenol Soap Solutions.

**Spratt's Lice Powder**

(SPRATT'S PATENT, LTD.)

	Guaranteed	Found
Ash (talc) . . . . .	40.00	37.06

*Cal. Dept. Agr., Spec. Pub. 75, 63 (1927).***Spray Moore Weed Killer**

(KIRK, GEARY &amp; CO.)

	Guaranteed	Found
Arsenious oxide . . . . .	30.00	26.74

*Cal. Dept. Agr., Spec. Pub. 75, 25 (1927).***Spray Mulsion**

See Oil Emulsions, Mineral.

**Spray Oil 14—21**

See Oils, Mineral.

**Squirrel Annihilator****Squirrel Poison**

See Strychnine Preparations.

**Squirrel Poison-Phosphorus**

See Phosphorus Preparations.

**Stallard's New Lice Exterminator**

(MANUFACTURER NOT STATED)

Found: Moisture 0.16 percent; free sulphur 73.51 percent; ferric oxide 23.73 percent; silica 1.53 percent.

*Cal. Dept. Agr., Spec. Pub. 51, 11 (1925).*

**Stanlar Sodium Fluoride****Stanlar Sodium Fluoride Lice Control**

See Sodium Fluoride.

**Star Water**

(MANUFACTURER UNKNOWN)

Found: Available chlorine 2.64 percent.

*Conn. Agr. Expt. Sta., Bul. 258, 377 (1924).*

**Stearns' Electric Rat and Roach Paste**

See Phosphorus Preparations.

**Steraklene**

(CONNECTICUT CHEMICAL &amp; DISINFECTANT CO., NEW HAVEN, CONN.)

	Guaranteed	Found
Sodium hypochlorite.....	8.00	6.13
Available chlorine.....	.....	5.86
Inert matter.....	92.00	.....

*Conn. Agr. Expt. Sta., Bul. 300, 348 (1929).*

**Sterilac**

(THE STERILAC CO., NORTH CHICAGO, ILL.)

Guaranteed: Active ingredient 94.00 percent; inactive (mono-hydrated sodium carbonate), 6.00 percent. "An alkaline chloramine mixture readily soluble in water."

Found: Chloramine T, 94.24 percent.

*Conn. Agr. Expt. Sta., Bul. 300, 348 (1929).*

**Sterling Ant Driver**

(WESTERN WHOLESALE DRUG CO., SANTA PAULA, CAL.)

	Guaranteed	Found
Arsenic.....	3.38	5.27

*Cal. Dept. Agr., Spec. Pub. 101, 20 (1930).*

**Sterling Argentine Ant Poison**

(WESTERN WHOLESALE DRUG CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Arsenic.....	0.11	0.13

*Cal. Dept. Agr., Spec. Pub. 101, 20 (1930).*

**Sterling Oil Spray**

See Oil Emulsions, Mineral.

**Sterlingworth Cut Worm Killer**

(STERLING CHEMICAL CO., CAMBRIDGE, MASS.)

	Guaranteed	Found
Total arsenious oxide.....	1.00	1.99
Water-soluble arsenic, metal.....	0.07	1.40

*Conn. Agr. Expt. Sta., Bul. 242, 159 (1924).*

**Sterlingworth Lime & Sulphur Wash**

See Lime Sulphur Solution.

**Sterlingworth Weed Killer**

(STERLING CHEMICAL CO., CAMBRIDGE, MASS.)

	Guaranteed	Found
Arsenic oxide.....	30.00	30.10

*Cal. Dept. Agr., Spec. Pub. 34, 20 (1923).*

**Stock Dip***See Phenol Soap Solutions.***Stott's Fir-Tree Oil Soap***See Soap.***Strawberry Weevil Bait**

(M. R. FORSELL, SEATTLE, WASH.)

Found: Total arsenic oxide 1.54 percent; water-soluble arsenic oxide 0.61 percent; calcium oxide 0.42 percent; magnesium oxide 1.42 percent; moisture 7.24 percent. Substance is dried apple waste plus magnesium arsenate.

*Canada Dept. Agr., Div. Chem., Rept. Dominion Chemist (1928).***Strychnine Preparations***See Table XXXI.***John Stumpf's Magic Hoodoo Paper**

(J. STUMPF &amp; SON, GRETNA, LA.)

Sample is a sheet of paper impregnated with mercuric chloride.—*Conn. Agr. Expt. Sta., Sample 9227.*

**Success Special Insecticide**

(VICTORY TREE SPRAY CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Sulphur.....	6.00	7.20
Sodium nitrate.....	23.00	22.44
Sodium carbonate.....	39.90	32.99
Soap.....	10.00	9.27
Water.....		27.41
Inert matter.....	22.00	....

*Cal. Dept. Agr., Spec. Pub. 58, 49 (1925).***Success Tree Spray**

(H. D. BLANCHARD, PORTERVILLE, CAL.)

	Guaranteed	Found
Water.....	....	8.72
Sulphur.....	20.00	15.63
Sodium nitrate.....	20.00	19.62
Sodium carbonate.....	35.00	38.70
Soap.....	12.00	12.04
Inert matter.....	11.00	....

*Cal. Dept. Agr., Spec. Pub. 51, 55 (1925).***Sulcoloid***See Sulphur.***Sulco-V. B.***See Oil Emulsions, Mineral.*

**Sulf-Arsena Dusting Mixture**

See No. 70 Sulf-Arsena Dusting Mixture.

**Sulfene**

(F. A. FRAZIER CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Sodium polysulphide.....	64.00	65.76
Sodium thiosulphate.....	22.00	25.60
Free sulphur.....	2.00	0.45
Sodium sulphate.....	4.00	....
Water.....	8.00	....

*Cal. Dept. Agr., Spec. Pub. 66, 23 (1926).***Sulfo**

(MILLER PRODUCTS CO., PORTLAND, OREG.)

	Guaranteed	Found
Sulphur.....	90.00	85.50

*Oreg. Agr. Expt. Sta., Cir. 84, 11 (1927).***Sulfo-Ammonium Soap**

See Soaps.

**Sulfocide**

(B. G. PRATT CO., HACKENSACK, N. J.)

Found: Sodium sulphide 34.14 percent; sodium thiosulphate 0.67 percent; sodium sulphate 0.15 percent; water (by difference) 65.04 percent. Mostly sodium monosulphide, largely in undissolved crystalline form.—*Conn. Agr. Expt. Sta., Sample 9366.*

**Sulfodust**

See Sulphur; Niagara Sulfodust.

**Sulfo-Tobacco Plant and Animal Soap**

See Nicotine Soaps.

**Sulfur**

See Sulphur.

**Sulfur Dusting Mixture Formula No. 5**

See Naco.

**Sulfur Lead Dust 85-15**

(SHERWIN-WILLIAMS CO., CLEVELAND, O.)

	Guaranteed	Found
Total arsenic, metal.....	2.84	3.26
Sulphur.....	78.00	81.62

*Maine Agr. Expt. Sta., Official Inspections 150, 121 (1933).***Sulfur-Lead Dust 70-10-20**

(I. P. THOMAS &amp; SON CO., PHILADELPHIA, PA.)

	Guaranteed	Found
Total arsenic, metal.....	1.75	2.28
Water-soluble arsenic, metal.....	0.50	0.11
Sulphur.....	65.00	62.77

*N. J. Agr. Expt. Sta., Bul. 577, 14 (1934).***Sulfur-Lime**

See the following:

**Dry Mix Sulfur-Lime**

80-20

**Kasulime****Leinen's Mildew-Go****Mechling's Dry Mix****New Jersey Dry Mix Sulfur-Lime****Niagara Dry Mix****Sulfur-Nicotine Compound**

See Nicotine-Sulphur Dusts.

**Sulfur 90-0-10 Smoke Lime**

(ANSBACHER-SIEGLE CORP., NEW YORK, N. Y.)

	Guaranteed	Found
Sulphur.....	90.00	88.71
<i>N. J. Agr. Expt. Sta., Bul. 556, 9 (1933).</i>		

**Sulfur Smoke Dry Mix**

(NITRATE AGENCIES CO., BAYONNE, N. J.)

	Guaranteed	Found
Sulphur.....	40.00	34.56
<i>N. J. Agr. Expt. Sta., Bul. 478, 8 (1928).</i>		

**Sulpho-Arsenate Mixture**

(THE KIL-TONE CO., VINELAND, N. J.)

	Guaranteed	Found
Sulphur.....	68.00	68.57
Total arsenic, metal.....	.....	2.47
Water-soluble arsenic, metal.....	.....	0.19
<i>N. J. Agr. Expt. Sta., Bul. 407, 13 (1924).</i>		

**Sulpho-Arsenate Powder**

(THE KIL-TONE CO., VINELAND, N. J.)

(See also "Green Cross")

	Guaranteed	Found
Total arsenic, metal.....	9.48	9.69
Water-soluble arsenic, metal.....	0.66	0.19
Sulphur.....	48.50	49.73
<i>N. J. Agr. Expt. Sta., Bul. 441, 12 (1926).</i>		

**Sulphon Carbolate of Lime**

See Whitney.

**"Sulpho-Tobacco" Soap**

(R. W. HUNT, SAN JOSE, CAL.)

	Guaranteed	Found
Nicotine.....	0.18	0.03
Sulphur.....	3.88	0.78
<i>Cal. Dept. Agr., Spec. Pub. 34, 47 (1923).</i>		

**Sulpho-Tone**

(LUCAS-KIL-TONE CO., VINELAND, N. J.)

Guaranteed: Sulphur 60.00 percent.

Found: Sulphur 62.48 percent; coarser than 100 mesh, 0.86 percent; passes 100 mesh, 99.14 percent; 200 mesh 57.37 percent; 300 mesh, 14.75 percent.

*N. J. Agr. Expt. Sta., Bul. 459, 8 (1927).***Sulphur**

See Table XXXII.



**Sulphur-Arsenate Dust 83-15**

(JOHN BACON, GASPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	2.80	2.44
Water-soluble arsenic, metal.....	0.15	0.14
Sulphur.....	83.00	84.75

*Conn. Agr. Expt. Sta., Bul. 272, 147 (1925).***Sulphur-Arsenate Dust 90-10**

(JOHN BACON, GASPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	1.90	1.86
Water-soluble arsenic, metal.....	0.10	0.11
Sulphur.....	88.50	88.27

*Conn. Agr. Expt. Sta., Bul. 272, 147 (1925).***Sulphur Dust**

(NIAGARA DUST CO., KENTVILLE, N. S., CANADA.)

Found: Sulphur 78.60 percent; total arsenic oxide 4.74 percent; water-soluble arsenic oxide 0.06 percent; lead oxide 9.75 percent; colloidal clay Bentonite) present.

*Canada Dept. Agr., Div. Chem., Rept. Dominion Chemist (1928).***Sulphuron***See Sulphur.***Sulphur Smoke Dusting Mixture***See Naco.***Sulphur with 7 Percent Nicotine Solution****Sulphur with 10 percent Nicotine Solution***See Nicotine-Sulphur Dusts.***Summer Mulsion****Summer Oil****Summerol***See Oil Emulsions, Mineral.***Summers' Copper Dust**

(SUMMERS FERTILIZER CO., BALTIMORE, MD.)

	Guaranteed	Found
Total arsenic.....	6.85	6.72
Total copper.....	6.85	7.16

*Maine Agr. Expt. Sta., Official Inspections 138, 104 (1930).***"Sun" Argentine Ant Poison**

(SUN DRUG CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Total arsenic, metal.....	0.20	0.30
Water-soluble arsenic, metal.....	0.20	0.30

*Cal. Dept. Agr., Spec. Pub. 34, 18 (1923).***Sun Miscible Oil****Sunoco Self-Emulsifying Spray****Sunoco Spray Oil***See Oil Emulsions, Mineral.*

**Sun Ray**

(J. B. KEIGHTLY, LOS ANGELES, CAL.)

	Guaranteed	Found
Available chlorine.....	4.50	5.14

*Cal. Dept. Agr., Spec. Pub. 101, 80 (1930).*

**Superfine Spray Lime**

(LEE LIME CORPORATION, LEE, MASS.)

Found: Calcium oxide 47.52 percent; magnesium oxide 31.23 percent.—  
*Maine Agr. Expt. Sta., Official Inspections 158, 140 (1935).*

**Superl Ant Powder**

(SUPERL MANUFACTURING CO., LOS ANGELES, CAL.)

Guaranteed: Talc 10.00 percent.  
Found: Sodium fluoride 65.62 percent; organic matter 21.90 percent.—  
*Cal. Dept. Agr., Spec. Pub. 101, 79 (1930).*

**Superl Insect Spray**

(SUPERL MANUFACTURING CO., LOS ANGELES, CAL.)

No analysis.—*Cal. Dept. Agr., Spec. Pub. 101, 84 (1930).*

**Superl Moth Block**

See Paradichlorbenzene.

**Superl Soluble Pine Oil**

(SUPERL MANUFACTURING CO., LOS ANGELES, CAL.)

Guaranteed: Water 10.00 percent.  
Found: Total oils 85.31 percent; mineral oils 51.20 percent; soap 11.77 percent; water 2.66 percent.—*Cal. Dept. Agr., Spec. Pub. 101, 77 (1930).*

**Super-Suds**

(COLGATE-PALMOLIVE-PEET CO.)

Found: Soap 62.89 percent; free fatty acid 0.26 percent; sodium carbonate 5.59 percent; sodium silicate 21.67 percent; insoluble ash 0.56 percent; water 9.25 percent; phosphate trace; no free sodium hydroxide or borax.—*Conn. Agr. Expt. Sta., Bul. 346, 263 (1933).*

**Super Tox**

(HOOD RIVER SPRAY CO., HOOD RIVER, OREG.)

	Guaranteed	Found
Nicotine.....	6.00	5.70

*Oreg. Agr. Expt. Sta., Cir. 95, 13 (1929).*

**Sure Death Rat Killer**

(PFEIFFER CHEMICAL CO.)

Found: Arsenious oxide 97.22 percent.—*Cal. Dept. Agr., Spec. Pub. 75, 27 (1927).*

**Sure Kill Rat and Roach Paste**

See Phosphorus Preparations.

**Sure-Noxem**

(DE VOE &amp; RAYNOLDS, CHICAGO, ILL.)

	Guaranteed	Found
Arsenious oxide.....	2.00	2.10
Sulphur.....	6.00	16.60

*Oreg. Agr. Expt. Sta., Cir. 64, 11 (1925).*



**Sure-Shot**

See Oils, Mineral.

**S. W. Sheep Dip**

See Phenol Soap Solutions.

**Synthetic Cryolite**

(JUNGMANN & CO., NEW YORK, N. Y.)

Found: Solubility, as sodium aluminum fluoride ( $\text{Na}_3\text{AlF}_6$ ), 0.029 grams per 100cc at 18° C.—*Conn. Agr. Expt. Sta.*, Sample 4228.

**T****Talbot's Ant Powder**

	Guaranteed	Found
(TALBOT MANUFACTURING CO., FRESNO, CAL.)		
Sodium fluoride ( $\text{Na}_2\text{F}_2$ ).....	74.00	76.90
Sodium acid fluoride ( $\text{NaHF}_2$ ).....	3.00	3.98
Pyrethrum.....	9.00	.....
Organic matter.....	.....	12.50

*Cal. Dept. Agr., Spec. Pub.* 101, 79 (1930).

**Talbot's Bed Bug Powder**

(TALBOT MFG. CO.)

Guaranteed: Sodium acid fluoride 8.00 percent.

Found: Sodium fluoride 58.46 percent; ash 4.67 percent.

*Cal. Dept. Agr., Spec. Pub.* 75, 63 (1927).

**Talcimized Sodium Fluoride**

See Sodium Fluoride.

**Talc, Powdered Soapstone**

(APOTHECARIES HALL CO., WATERBURY, CONN.)

Found: 80.65 percent passed 200 mesh.—*Conn. Agr. Expt. Sta., Bul.* 346, 263 (1933).

**Talc, Purified, U. S. P.**

(APOTHECARIES HALL CO., WATERBURY, CONN.)

Found: All passed 200 mesh; 81.58 percent passed 300 mesh.—*Conn. Agr. Expt. Sta., Bul.* 346, 263 (1933).

**Talc, Smithko Regular Bestone**

(SMITH CHEMICAL & COLOR CO., NEW YORK)

Found: 42.86 percent passed 200 mesh.—*Conn. Agr. Expt. Sta., Bul.* 346, 263 (1933).

**Talcum, Powdered**

(C. W. WHITTLESEY, NEW HAVEN, CONN.)

Found: All passed 200 mesh.—*Conn. Agr. Expt. Sta., Bul.* 346, 263 (1933).

**Tar Acids and Petroleum Oils**

(R. R. ROGERS CHEMICAL CO.)

Guaranteed: Phenols 20.00 percent.

Found: Phenols 21.60 percent; oils 77.35 percent; non-soap ash 0.02 percent; moisture 0.40 percent. Constants of separated oil: Baumé gravity 23.3; unsulphonated oil, 44.40 percent.

*Cal. Dept. Agr., Spec. Pub.* 51, 44 (1925).

**Tarine**

(BRUNSWIG DRUG CO., LOS ANGELES, CAL.)

No analysis.—*Cal. Dept. Agr., Spec. Pub. 101, 84 (1930).***Tennent Blight Mixture**

See Bordeaux Mixture.

**Tennent Bug and Blight Mixture 9-5**

(REED &amp; PERRINE, TENNENT, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	5.00	5.61
Water-soluble arsenic, metal.....	0.50	0.20
Copper.....	9.00	9.12

*N. J. Agr. Expt. Sta., Bul. 556, 17 (1933).***Tennent Bug Mixture 0-7.5**

(REED &amp; PERRINE, TENNENT, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	7.50	8.53
Water-soluble arsenic, metal.....	0.50	0.12

*N. J. Agr. Expt. Sta., Bul. 594, 15 (1935).***Tennent Bug Mixture 0-6.25**

(REED &amp; PERRINE, TENNENT, N. J.)

	Guaranteed	Found
Total arsenic, metal.....	6.25	7.17
Water-soluble arsenic, metal.....	0.50	0.16

*N. J. Agr. Expt. Sta., Bul. 594, 15 (1935).***Terminex Fluid**

(MANUFACTURER UNKNOWN)

ESTIMATED COMPOSITION:

Beta Naphthol.....	5.67
Ortho Dichlorobenzene.....	19.87
Painters' Naphtha.....	74.46

*Conn. Agr. Expt. Sta., Sample 1196.***Termite Larvicide**

See Phin-O-Tas Oil.

**Thallium Sulphate**

(BRAUN-KNECHT-HEIMANN CO., BAKERSFIELD, CAL.)

	Guaranteed	Found
Thallium sulfate.....	99.00	99.71

*Cal. Dept. Agr., Spec. Pub. 101, 43 (1930).***300 Mineral Seal Oil**

See Oils, Mineral.

**Thrip Juice**

See Nicotine Soaps.

**Thymo-Cresol**

See Phenol Soap Solutions.

**Tiger Paste**

See Phosphorus Preparations.

**Tizit Tree Spray**

(TIZIT SPRAY MFG. CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Total arsenic, metal . . . . .	4.00	3.41
Water-soluble arsenic, metal . . . . .	0.20	2.25
Lead oxide . . . . .	16.00	15.55
Sulphur . . . . .	22.00	23.00
Sodium carbonate . . . . .	16.00	17.08
Sodium oleate . . . . .	25.00	24.98
Inert matter . . . . .	17.00	....

*Cal. Dept. Agr., Spec. Pub. 51, 54 (1925).***T. N. T. Nicotine Capsules**

(WHITE MANUFACTURING CO., GARDENA, CAL.)

	Guaranteed	Found
Nicotine . . . . .	13.00	12.90

*Cal. Dept. Agr., Spec. Pub. 101, 36 (1930).***Tobacco Dust***See Nicotine Dusts.***Tobacco Extract Spray**

(GLEN RIVARD, NEW HAVEN, CONN.)

	Guaranteed	Found
Nicotine . . . . .	40.00	0.03

*Conn. Agr. Expt. Sta., Sample 9140.***Tobacco, Ground***See Nicotine Dusts.***Tobacco Soap***See Nicotine Soaps.***Tobacco Stem Extract**

(JOSEPH BUBENICEK, WOODMONT, CONN.)

Found: Nicotine 0.0330 grams per 100 cc.—*Conn. Agr. Expt. Sta., Bul. 346, 266 (1933).***Tobacco Tea**

(INDIGO BLUING CO.)

Found: Nicotine 0.23 percent.

*Cal. Dept. Agr., Spec. Pub. 34, 52 (1923).***"To-Bak-ine" Liquid***See Nicotine Sulphate Solution.***Todco, Argentine Ant Poison**

(OWL DRUG CO., SAN FRANCISCO, LOS ANGELES, CAL.)

Guaranteed: Arsenic 0.20 percent.

Found: Arsenic, 0.15 percent; cane sugar 59.24 percent.

*Cal. Dept. Agr., Spec. Pub. 58, 17 (1925).***To-na-cide**

(TO-NA-CIDE CO., BASKING RIDGE, N. J.)

Found: Total ash 8.95 percent; phosphorus pentoxide 0.12 percent; potassium oxide 0.43 percent; total nitrogen 0.49 percent; nicotine 0.21 percent; naphthalene 77.57 percent. The preparation is a mixture of naphthalene and tobacco with some sand.—*Conn. Agr., Expt. Sta., Bul. 346, 266 (1933).***Tonicide***See Blue Label.*

**Toxhydrool**

(FUMOL CORPORATION, NEW YORK, N. Y.)

Preparation is a highly purified low-boiling kerosene fraction containing 0.0015 percent hydrocyanic acid and a trace of an unidentified non-volatile alkaloid. Constants of oil: Viscosity, 100° F., 36.3 seconds; unsulphonated 94.4 percent; initial boiling-point 190° C.; 95 percent distilled below 244° C.—*Conn. Agr. Expt. Sta., Sample 5291.*

**Toxol**

(GLIDDEN CHEMICAL CO., CLEVELAND, O.)

Guaranteed: Toxol 100 percent.

Found: Principally a petroleum product.

*Maine Agr. Expt. Sta., Official Inspections 130, 116 (1928).***Trafton's Old Reliable Spray Emulsion Medium**

See Oil Emulsions, Mineral.

**Tree Paint**

(HOOD RIVER SPRAY CO., HOOD RIVER, OREG.)

	Guaranteed	Found
Copper.....	1.00	0.70

*Oreg. Agr. Expt. Sta., Cir. 84, 15 (1927).*

**Tree Spray**

See "Tizit" and "Victory."

**Trelife**

(THE FERTILSPRAY CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Ferrous sulphate.....	20.00	20.98
Ferric sulphate.....	20.00	36.85
Copper sulphate.....	0.45	1.27

*Cal. Dept. Agr., Spec. Pub. 75, 45 (1927).*

**Trepep**

(PERFECTO SPRAY MFG. CO., LOS ANGELES, CAL.)

Guaranteed: Water 80.00 percent.

Found: Water 83.60 percent; soap 3.69 percent; nicotine 0.26 percent; copper 0.23 percent; protein 5.13 percent; phenols 0.90 percent; calcium oxide 4.70 percent; sulphur 0.79 percent; free ammonia 0.36 percent.

*Cal. Dept. Agr., Spec. Pub. 66, 37 (1926).***Tri-Ogen No. 1**

(ROSE MFG. CO., PHILADELPHIA, PA.)

	Guaranteed	Found
Lead arsenate.....	10.53	.....
Anhydrous sodium oleate.....	13.05	.....
Inert.....	76.42	.....
Total arsenic, metal.....	1.75	2.36
Water-soluble arsenic, metal.....	0.15	0.11

*Maine Agr. Expt. Sta., Official Inspections 158, 140 (1935).***Tri-Ogen No. 2**

(ROSE MFG. CO., PHILADELPHIA, PA.)

Guaranteed: Inert 18.5 percent; acetone 7 percent; absolute alcohol 50.0 percent; pyrethrum 8.1 percent.

Found: Solids 14.99 percent; ash 1.67 percent; volatile at 100° C., 85.01 percent.—*Maine Agr. Expt. Sta., Official Inspections 158, 140 (1935).*

**Tri-Ogen No. 3**

(ROSE MFG. CO., PHILADELPHIA, PA.)

	Guaranteed	Found
Copper .....	0.47	0.47
Nickel .....	0.47	0.42
Inert .....	99.06	.....
Nitrogen (as ammonium salt) .....	1.60	1.61

*Maine Agr. Expt. Sta., Official Inspections 158, 140 (1935).***Triona****Triple X****Triple X Heavy****Triple X Light 50****Triple X Medium****Triple X 60****Triple X 70***See Oil Emulsions, Mineral.***Tri-Tex**

(TRI-TEX, INCORPORATED, LOS ANGELES, CAL.)

	Guaranteed	Found
Available chlorine .....	4.50	5.01

*Cal. Dept. Agr., Spec. Pub. 101, 81 (1930).***Triumph***See Oil Emulsions, Mineral.***Tuber Tonic**

(SHERWIN-WILLIAMS CO., CLEVELAND, OHIO.)

Found: Total arsenic 23.40 percent; water-soluble arsenic 0.86 percent; copper 19.70 percent.

*N. J. Agr. Expt. Sta., Bul. 459, 16 (1927).***1251 Paraffin Oil***See Oils, Mineral.***20-80 Copper-Lime Dust****20-80 Dusting Powder***See Bordeaux Mixture.***20-50-50 Copper, Lime, Calcium Arsenate**

(LUCAS-KIL-TONE CO., VINELAND, N. J.)

Found: Total arsenic (metal) 8.33 percent; water-soluble arsenic (metal) 0.07 percent; copper 6.55 percent.—*N. J. Agr. Expt. Sta., Bul. 513, 12 (1930)***25-75 Sherwin-Williams Copper Lime Dust***See Bordeaux Mixture.***Twenty Plus Disinfectant**

(MICHEL &amp; PELTON CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Sodium hypochlorite .....	12.00	11.91
Available chlorine .....	.....	5.67

*Cal. Dept. Agr., Spec. Pub. 51, 53 (1925).*

**20-25-35 Dusting Powder**

(A. B. CLEMENT, MARS HILL, ME.)

	Guaranteed	Found
Total arsenic, metal.....	7.07	7.44
Copper.....	7.16	7.42

*Maine Agr. Expt. Sta., Official Inspections 130, 116 (1928).*

**20-20-60 Cenco Copper Dust Mixture**

(CENTRAL CHEMICAL CO., INC., HAGERSTOWN, MD.)

	Guaranteed	Found
Total arsenic, metal.....	5.20	5.56
Water-soluble arsenic, metal.....	0.50	0.16
Copper.....	.....	7.68

*N. J. Agr. Expt. Sta., Bul. 556, 13 (1933).*

**2 Percent Nicotine Dust**

**210 Dust Mixture Special**

See Nicotine Dusts.

**Tydol 122**

See Oils, Mineral.

U

**U. C. Worm Capsules**

(JONES DRUG STORE, PETALUMA, CAL.)

Found: Nicotine 15.59 percent.

*Cal. Dept. Agr., Spec. Pub. 66, 26 (1926).*

**Uenotron**

(TAKIO AOKI, SAN FRANCISCO, CAL.)

	Guaranteed	Found
Water.....	75.00	74.93

*Cal. Dept. Agr., Spec. Pub. 101, 76 (1930).*

**Ultrol**

See Oils, Mineral.

**Universal Brand Neutral Emulsion**

**Universal Brand Neutrol**

**Universal Brand Neutrol A**

**Universal Brand Nicona**

**Universal Brand Triona**

**Universal Brand Triumph**

**Universal Brand Viscona E Medium**

**Universal Brand Viscona Heavy**

**Universal Brand Viscona W Medium**

**Universal Dormant Soluble Oil**

**Universal Mealy Bug Spray Oil**

**Universal Medol Emulsion**

**Universal Orchard Spray Dormant Soluble Oil**

**Universal Orchard Spray Triumph**

See Oil Emulsions, Mineral.



### University Capsules

(THE UNIVERSITY CAPSULE CO., SAN FRANCISCO, CAL.)

	Guaranteed	Found
Nicotine.....	13.00	14.20
<i>Cal. Dept. Agr., Spec. Pub. 66, 26 (1926).</i>		

### University Poultry Worm Capsules

(NOVATO PHARMACY, NOVATO, CAL.)

Found: Nicotine 14.81 percent.  
*Cal. Dept. Agr., Spec. Pub. 66, 26 (1926).*

### University Worm Capsules

(CHICKEN PHARMACY, PETALUMA, CAL.)

	Guaranteed	Found
Nicotine.....	13.00	13.39
<i>Cal. Dept. Agr., Spec. Pub. 75, 35 (1927).</i>		

### University Worm Capsules No. 1

(PETALUMA AVIAN PATHOLOGY LABORATORY, PETALUMA, CAL.)

	Guaranteed	Found
Nicotine.....	15.00	14.83
<i>Cal. Dept. Agr., Spec. Pub. 66, 26 (1926).</i>		

### Urania Green

(IMPORTED FROM GERMANY)

Found: Total arsenious oxide 57.05 percent; water-soluble arsenious oxide 4.18 percent.  
*Cal. Dept. Agr., Spec. Pub. 34, 16 (1923).*

### U. S. P. Liquor Cresolis Compound

See Phenol Soap Solutions.

### Uspulun

(THE BAYER CO., INC., NEW YORK, N. Y.)

Guaranteed: Hydroxymercurichlorphenol sulphate 30.00 percent.  
Found: Mercury 19.57 percent.  
*Cal. Dept. Agr., Spec. Pub. 75, 62 (1927).*

## V

### Vaycide "40" Dust

(VAYCIDE CHEMICAL CORP., BIRMINGHAM, ALA.)

	Guaranteed	Found
Total arsenic, metal.....	1.80	2.24
Water-soluble arsenic, metal.....	0.75	0.20
Copper.....	1.05	0.96
Sulphur.....	25.00	23.42
Nicotine.....	1.00	0.77
<i>N. J. Agr. Expt. Sta., Bul. 372, 24 (1922).</i>		

### Vegetable Garden Dust or Spray

(NIAGARA SPRAYER & CHEMICAL CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Total arsenic, metal.....	7.80	8.54
Water-soluble arsenic, metal.....	0.25	0.15
Copper.....	8.60	8.62
<i>Maine Agr. Expt. Sta., Official Inspections 158, 136 (1935).</i>		

**Vermex**

("PHYTOBIE" CO., LTD., THE HAGUE, HOLLAND.)

Guaranteed: Water 85 percent.

Found: Water 84.4 percent; soap 13.62 percent; free potassium carbonate 0.61 percent; other ash 0.42 percent; derris extract and undetermined 0.95 percent.—*Conn. Agr. Expt. Sta.*, Sample 3526.**Vermol**

See Phenol Soap Solutions.

**Verm-O-Spray**

(VERM-O-SPRAY PRODUCTS CO., WEST HAVEN, CONN.)

Found: Specific gravity, 15.6° C., 0.8825; trace of ash; flash point 61.0° C.; fire point 64° C.; salicylate present. Substance is a mixture of kerosene and methyl salicylate.

*Conn. Agr. Expt. Sta.*, *Bul.* 258, 376 (1924).**Verm-O-Spray "A" Agricultural**

(VERM-O-SPRAY PRODUCTS CO., INC., WEST HAVEN, CONN.)

Found: Nicotine 0.001 percent.—*Conn. Agr. Expt. Sta.*, *Bul.* 346, 267 (1933).**Veterinary Liquor Cresolis**

See Phenol Soap Solutions.

**Victor Soluble Oil****Victor Soluble Oil (Jarvis Formula)—1930 Stock**

See Oil Emulsions, Mineral.

**Victory Tree Spray**

(VICTORY TREE SPRAY CO., LOS ANGELES, CAL.)

	Guaranteed	Found
Total arsenic oxide.....	4.50	5.74
Water-soluble arsenic oxide.....	0.50	1.37
Lead oxide.....	15.00	14.83
Sulphur.....	25.00	24.85
Sodium oxide.....	10.00	13.02
Soap.....	....	3.80

*Cal. Dept. Agr.*, *Spec. Pub.* 66, 18 (1926).**Vigorol**

(TREE CHEMICAL CO., SAN JUAN BAUTISTA, CAL.)

Guaranteed: Potassium cyanide 5.47 percent.

Found: Potassium cyanide, 1.66 percent; nitrate nitrogen 0.31 percent; ammonia nitrogen 2.24 percent; organic nitrogen 0.65 percent; total nitrogen 3.20 percent; phosphorus pentoxide 3.15 percent. This is a preparation intended to be injected into the sap of trees. It was found to injure trees, and renewal of license to sell was refused in California.

*Cal. Dept. Agr.*, *Spec. Pub.* 51, 12, 58 (1925).**Vitedust**

(NIAGARA SPRAYER CO., MIDDLEPORT, N. Y.)

	Guaranteed	Found
Copper sulphate.....	11.00	9.40
Lead arsenate.....	14.00	12.80

*Oreg. Agr. Expt. Sta.*, *Cir.* 64, 11 (1925).**Viti Dust**

See Niagara Viti Dust.



**Volck****Volck's Miscible No. 2****Vulture Oil**

See Oil Emulsions, Mineral.

**W****Dr. G. Z. Wait's Sheep Dip**

See Phenol Soap Solutions.

**Wait's Squirrel and Gopher Poison****Wakelee's Squirrel and Gopher Poison**

See Strychnine Preparations.

**Walnut Worm Dust**

See Ortho Walnut Worm Dust.

**Wardgrade Nicotine**

See Nicotine Sulphate Solutions.

**War on Ants**

(CANNON CHEMICAL CO.)

Guaranteed: Sugar 20.00 percent.

Found: Sodium fluoride 45.27 percent; organic matter 25.05 percent; sugar 19.72 percent.

*Cal. Dept. Agr., Spec. Pub. 75, 63 (1927).*

**Waters Bros. Crude Carbohc Acid**

See Phenol.

**Watkins' Germicide Dip and Disinfectant**

See Phenol Soap Solutions.

**Watkins' Household Fly Spray**

(THE J. R. WATKINS CO., WINONA, MINN.)

Preparation is a clear yellow liquid with an odor of methyl salicylate. Initial boiling point 165° C.; 98.4 percent distills below 262° C. Probably a kerosene base pyrethrum extract.—*Conn. Agr. Expt. Sta., Sample 769.*

**Watkins' Louse Killer**

(J. R. WATKINS CO.)

	Guaranteed	Found
Nicotine.....	0.10	0.23
Naphthalene.....	10.00	10.07

*Cal. Dept. Agr., Spec. Pub. 75, 41 (1927).*

**Watson Soluble Arsenoid**

(MERRIMAC CHEMICAL CO., EVERETT, MASS.)

	Guaranteed	Found
Sodium arsenate.....	80.	....
Total arsenic, metal.....	32.	40.82

*Maine Agr. Expt. Sta., Official Inspections 150, 124 (1933).*

**Weedicator**

(WEEDICATOR WEED CO.)

	Guaranteed	Found
Arsenious oxide . . . . .	.....	7.84
Water . . . . .	70.00	70.00

*Cal. Dept. Agr., Spec. Pub. 75, 25 (1927).***Weed Killer**

(CHIPMAN CHEMICAL ENGINEERING CO., BOUND BROOK, N. J.)

	Guaranteed	Found
Salts . . . . .	45.00	44.10

*Oreg. Agr. Expt. Sta., Cir. 84, 15 (1927).***Weed Killer**

(DURBOCIDE CHEM. &amp; MACHINE CO., PORTLAND, OREG.)

Sodium chlorate . . . . .	100.0	96.0
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*Oreg. Agr. Expt. Sta., Cir. 95, 19 (1929).***Weed Killer**

(HOOD RIVER SPRAY CO., HOOD RIVER, OREG.)

Found: Arsenious oxide 30.00 percent.

*Oreg. Agr. Expt. Sta., Cir. 84, 15 (1927).***Weed Killer**

(U. S. SMELTING, REFINING &amp; MINING CO., SALT LAKE CITY, UTAH)

	Guaranteed	Found
Sodium arsenite . . . . .	43.00	44.50

*Oreg. Agr. Expt. Sta., Cir. 84, 15 (1927).***Weed-Killer No. 1 Thin Liquor**

(F. W. WAITE, EL CENTRO, CAL.)

Found: Arsenious oxide 1.13 lb. per gal.; sodium chloride, 1.94 lb. per gallon.

*Cal. Dept. Agr., Spec. Pub. 34, 20 (1923).***Weed-Killer No. 2, Thick Liquor**

(F. W. WAITE, EL CENTRO, CAL.)

Found: Arsenious oxide 8.10 lb. per gal.; sodium chloride 0.14 lb. per gallon.

*Cal. Dept. Agr., Spec. Pub. 34, 20 (1923).***Weed Killer, Solid**

(F. W. WAITE, EL CENTRO, CAL.)

Found: Arsenious oxide 1.56 percent; sodium hydroxide 57.60 percent; sodium carbonate 38.16 percent; sodium chloride 1.42 percent.

*Cal. Dept. Agr., Spec. Pub. 34, 20 (1923).***Weevil Bait**

See Strawberry Weevil Bait.

**Wescoco Bleaching Water**

Found: Available chlorine 2.89 grams per 100 cc.

*Conn. Agr. Expt. Sta., Bul. 258, 377 (1924).***Western Poisoned Barley**

See Strychnine Preparations.

**Westopine**

(WEST DISINFECTING CO.)

Found: Water 77.5 percent; ash 2.80 percent; soap (as potassium oleate) 13.02 percent; oil (by difference) 9.48 percent; phenols none or trace. Refractive index of oil, 20° C., 1.487.—*Conn. Agr. Expt. Sta., Bul. 346, 267 (1933).*

**Whale Oil Soap**

See Soap.

**White Arsenic Powder**

(C. J. MIKES, FILLMORE, N. DAK.)

Found: Arsenious oxide approximately 75 percent.—*N. Dak., Bul. 42, 119 (1934).*

**White Oil**

See Oils, Mineral.

**Whitewash**

See Wyandotte Detergent.

**Wigotox Earwig Bait**

(DURBOCIDE CHEMICAL &amp; MACHINE CORP., PORTLAND, OREG.)

	Guaranteed	Found
Sodium arsenite . . . . .	3.5	3.1

*Oreg. Agr. Expt. Sta., Cir. 106, 22 (1931).*

**Williams and Moore Spray Soap**

See Soap.

**Wilson's O. K. Plant Spray**

(ANDREW WILSON, INC., PASADENA, CAL.)

	Guaranteed	Found	Guaranteed	Found
Nicotine . . . . .	1.40	1.68	1.60	1.77
Soap . . . . .	7.00	6.68	10.00	8.18
Water . . . . .		89.60		87.50
Essential oils . . . . .	2.00	1.97	2.30	2.60

*Cal. Dept. Agr., Spec. Pub. 101, 38 (1930).*

**Winter Mulsion****Wintrol**

See Oil Emulsions, Mineral.

**Wizard Fly Spray**

(WIZARD INC., CHICAGO, ILL.)

Preparation is a mixture of kerosene and methyl salicylate.—*Maine Agr. Expt. Sta., Official Inspections 142, 120 (1931).*

**W. & M. Antiseptic Sheep Dip**

See Phenol Soap Solutions.

**Wolf's Dairy Hypozone**

(WOOLF'S HYPOZONE, INC., NEW YORK, N. Y.)

Two Samples:

**Sample 1299**

Guaranteed: Phenol coefficient (R-W) 10; water 94.4 percent; calcium carbonate trace.

Found: Available chlorine 6.49 percent; sodium hypochlorite 6.81 percent.

## Sample 1488

Guaranteed: Phenol coefficient much higher than 10.

Found: Available chlorine 7.90 percent; sodium hypochlorite 8.29 percent.

—*Conn. Agr. Expt. Sta.*

**Worrell's Crespolin**

See Phenol Soap Solutions.

**Wyandotte Detergent (Whitewash)**

(MANUFACTURER NOT STATED).

Found: Moisture 4.50 percent; sand 69.22 percent; sodium carbonate 10.60 percent; calcium oxide 1.20 percent; magnesium oxide 0.35 percent; soap 10.40 percent; nicotine none. This substance was sold as a wash to prevent sunburn of trees, but was found of no value for this purpose.

*Cal. Dept. Agr., Spec. Pub. 34, 59 (1923).*

**Wyrol**

See Oils, Mineral.

**X****Xfungus**

(CHARLES COOPER & CO., NEW YORK, N. Y.)

Found: Copper 21.24 percent; free sulfur 57.58 percent; sulfate sulfur 0.38 percent.

## CALCULATED COMPOSITION:

Copper carbonate [2 CuCO <sub>3</sub> .Cu(OH) <sub>2</sub> ]	37.04
Copper sulfate (CuSO <sub>4</sub> .5H <sub>2</sub> O)	2.96
Sulfur	57.58

*Conn. Agr. Expt. Sta., Bul. 346, 268 (1933).*

**XX Mystic XX Spray**

See Oils, Mineral.

**X X X Heavy Emulsion****X X X Medium Emulsion**

See Oil Emulsions, Mineral.

**Y****Yellow Label Hydroxide Paste**

See Mechling.

**Youell's Rat Snap**

See Phosphorus Preparations.

**Z****Zeno**

See Phosphorus Preparations.

**Zeno Miscible Oil Spray**

See Oil Emulsions, Mineral.

**Zi Moz**

See Paradichlorbenzene.

**Zinc Arsenate, Dry**

(REX RESEARCH CORP., TOLEDO, O.)

(See also Orchard Brand Basic Zinc Arsenate.)

	Guaranteed	Found
Zinc arsenate $[Zn_3(AsO_4)_2]$ . . . . .	94.00	77.94
Total arsenic oxide $(As_2O_5)$ . . . . .	37.00	37.79
Water-soluble arsenic oxide $(As_2O_3)$ . . . . .	0.77	0.25
Total zinc oxide $(ZnO)$ . . . . .	....	56.56
Free zinc oxide $(ZnO)$ . . . . .	....	16.42

*Conn. Agr. Expt. Sta., Sample 2784.***Zinc Arsenite**

See Arsenite of Zinc.

**Zinc Bordeaux**

(GENERAL CHEMICAL CO., NEW YORK, N. Y.)

	Guaranteed	Found
Total arsenic, metal . . . . .	10.16	10.22
Water-soluble arsenic, metal . . . . .	1.00	0.25
Copper . . . . .	15.70	16.07
Zinc . . . . .	13.31	14.41

*Conn. Agr. Expt. Sta., Bul. 242, 154 (1922).***Zinc Sulfate**

(APOTHECARIES HALL CO.)

**Found:** Sodium and potassium oxides 0.19 percent; iron and aluminum oxides 0.02 percent; calcium oxide 0.00 percent; magnesium oxide 0.15 percent; ammonia 0.004 percent; chloride faint trace; no nitrate; faintly acid to litmus and alkaline to methyl orange.—*Conn. Agr. Expt. Sta., Sample 5782.*

**Zinc Sulphate U. S. P. X. Granular**

(MERCK &amp; CO.)

**Found:** Sodium and potassium oxides 0.37 percent; iron and aluminum oxides 0.05 percent; calcium oxide 0.03 percent; magnesium oxide 0.04 percent; ammonia 0.010 percent; chloride faint trace; no nitrate; faintly acid to litmus and alkaline to methyl orange.—*Conn. Agr. Expt. Sta., Sample 5783.*

TABLE I. ARSENATE OF CALCIUM

Manufacturer or Distributor and Brand	Arsenic Oxide, As <sub>2</sub> O <sub>3</sub>					Calcium Arsenate, Ca <sub>3</sub> (AsO <sub>4</sub> ) <sub>2</sub>		Publication
	Total		Water-Soluble			Guaranteed	Found	
	Guaranteed	Found	Guaranteed	Found				
				Official Method <sup>1</sup>	N. Y. Method <sup>2</sup>			
Acme White Lead and Color Works. Acme...	40.00	41.94	0.77	0.09		72.50	Cal. Dept. Agr., Spec. Pub. 101, 17 (1930).	
Ansbacher Siegle Corp., New York, N. Y.	39.87	40.05	1.53	1.67		69.36	Maine Agr. Expt. Sta., Official Inspections 150, 119 (1933).	
Ansbacher's.....	39.87	38.89	1.15	0.67		67.34	Maine Agr. Expt. Sta., Official Inspections 126, 84 (1927).	
Apothecaries Hall Co., Waterbury, Conn....	39.87	41.58	1.15	0.15		72.02	Maine Agr. Expt. Sta., Official Inspections 114, 86 (1924).	
Joseph Beech, Boston, Mass.....	40.00	45.28	1.15	0.06		70.0	78.42	Conn. Agr. Expt. Sta., Sample 3137.
Bowker Chemical Co., Baltimore, Md.	39.87	41.17	1.15	0.24		71.30	N. J. Agr. Expt. Sta., Bul. 459, 6 (1927).	
Bowker's Dry Powdered.....	40.0	40.17	1.15	0.23	0.51	69.57	Conn. Agr. Expt. Sta., Sample 2380.	
Bowker Chemical Co., New York, N. Y.	13.33	15.65				27.10	Cal. Dept. Agr., Spec. Pub. 101, 17 (1930).	
Bowker's Calcide.....	12.89	13.61	1.15	0.21		23.60	Cal. Dept. Agr., Spec. Pub. 101, 17 (1930).	
Bowker's Calrox Powder.....	39.87	42.31	0.75	0.18		73.27	N. J. Agr. Expt. Sta., Bul. 594, 5 (1935).	
Bowker's Calrox Powder.....	40.00	40.00	0.75	1.32	4.65	69.00	69.29	Conn. Agr. Expt. Sta., Sample 1453.
California Spray Chemical Co. Calcium Arsenate Dust No. 26.....								
California Sprayer Co. Calispray Dust No. 42								
Central Chemical Co., Inc., Baltimore, Md.								
Gro-All Brand Powdered.....								
Chipman Chemical Co., Inc., Bound Brook, N. J.....								

<sup>1</sup> A. O. A. C. Methods of Analysis, 1935, p. 51, sec. 42.

<sup>2</sup> Method of Pearce, Norton and Chapman [N. Y. State Agr. Expt. Sta. Tech. Bul. 234 (1935)].

TABLE I. ARSENATE OF CALCIUM—Continued.

Manufacturer or Distributor and Brand	Arsenic Oxide, As <sub>2</sub> O <sub>5</sub>					Calcium Arsenate Ca <sub>3</sub> (AsO <sub>4</sub> ) <sub>2</sub>		Publication
	Total		Water-Soluble			Guaranteed	Found	
	Guaranteed	Found	Guaranteed	Found				
				Official Method	N. Y. Method			
Cooperative G.L.F. Mills, Inc., Buffalo, N. Y. G.L.F. Powdered.....	40.86	42.66	0.75	0.18		73.89	N. J. Agr. Expt. Sta., Bul. 594, 5 (1935).	
Deloro Chemical Co., Deloro, Ont., Canada		44.06		0.08		76.30	Canada Dept. Agr., Div. Chem., Rept. Dominion Chemist (1928).	
Devoe & Reynolds Co., Inc., New York, N. Y.	39.87	41.19		6.33		71.34	Maine Agr. Expt. Sta., Official Inspections 130, 114 (1928).	
Dow Chemical Co., Midland, Mich. Dow..	40.00	39.89	0.75	0.54		69.01	Cal. Dept. Agr., Spec. Pub. 75, 21 (1927).	
Eastern States Farmers' Exchange, Springfield, Mass. Powdered.....	41.00	42.69	0.75	0.00	8.66	71.00	73.94	Conn. Agr. Expt. Sta., Sample 1653.
General Chemical Co., Baltimore, Md. Orchard Brand Powdered.....	41.00	41.99	0.75	0.00	0.87	71.00	72.72	Conn. Agr. Expt. Sta., Samples 2601 and 2607.
G.L.F. Fertilizer, Chemical & Paint Service, Rochester, N. Y. Powdered.....	41.01	40.87	1.15	0.29		70.79	71.89	N. J. Agr. Expt. Sta., Bul. 530, 6 (1931).
The Glidden Co., Reading, Pa.....	45.84	41.51	1.53	2.41				N. J. Agr. Expt. Sta., Bul. 407, 8 (1924).
Goulard & Olena, Inc., New York, N. Y. G. & O.....	39.87	41.01	0.75	0.12		71.02		N. J. Agr. Expt. Sta., Bul. 594, 5 (1935).
The Grasselli Chemical Co., New York, N. Y. Grasselli.....	40	40.43	0.68	0.38	1.16	69	70.02	Conn. Agr. Expt. Sta., Samples 1654 and 2894.
Interstate Chemical Co., Jersey City, N. J. Powder.....	40.00	38.08	1.15	0.60	4.20	69.00	65.96	Conn. Agr. Expt. Sta., Sample 1454.

Leggett & Bro., Inc., New York, N. Y. Anchor	39.87	42.76	1.15	0.61			74.05	N. J. Agr. Expt. Sta., Bul. 424, 9 (1925).
John Lucas & Co., Inc., Philadelphia, Pa....	39.87	40.97	1.15	0.43			70.95	N. J. Agr. Expt. Sta., Bul. 424, 9 (1925).
Lucas Kil-Tone Co., Vineland, N. J. Electro- cide.....	39.87	41.90	0.77	0.34		70	72.57	Maine Agr. Expt. Sta., Official Inspections 158, 139 (1935).
Lucas Kil-Tone Co., Vineland, N. J. Green Cross.....	39.87	40.61	0.77	0.21			70.32	N. J. Agr. Expt. Sta., Bul. 459, 6 (1927).
Lucas Kil-Tone Co., Vineland, N. J. Special	39.88	42.69		0.44			73.94	Maine Agr. Expt. Sta., Official Inspections 134, 111 (1929).
Manufacturer unknown.....	20.14			0.82			34.88	Canada Dept. Agr., Div. Chem., Rept. Dominion Chemist (1928).
Mechling Bros. Chemical Co., Camden, N. J. Powder <sup>3</sup> .....	40.0	0.17	1.0	0.00	0.00	70.0	0.29	Conn. Agr. Expt. Sta., Sample 1452.
Michel & Pelton Co., San Francisco, Cal....	40.00	43.47	1.15	0.69			75.20	Cal. Dept. Agr., Spec. Pub. 75, 21 (1927).
National Chemical Co. of California, El Centro, Cal. Flag.....	40.00	41.53	0.77	0.43			71.85	Cal. Dept. Agr., Spec. Pub. 75, 21 (1927).
Niagara Sprayer & Chemical Co., Inc., Middleport, N. Y.....	40	39.30	0.77	0.02	2.47	70	68.07	Conn. Agr. Expt. Sta., Sample 1865.
Niagara Sprayer & Chemical Co., Inc., Middleport, N. Y. Niagara Cal-Rite.....	40	42.78	0.54	0.03	0.13	70	74.09	Conn. Agr. Expt. Sta., Samples 1804 and 1969.
Nitrate Agencies Co., New York, N. Y. Naco	40.02	42.76	0.75	0.74			74.05	N. J. Agr. Expt. Sta., Bul. 424, 9 (1925).
Phillips Bros., New York, N. Y.....	39.87	43.18	1.15	0.74			74.79	Maine Agr. Expt. Sta., Official Inspections 130, 114 (1928).
Pittsburgh Plate Glass Co., Corona Chemical Div., Milwaukee, Wis. Corona Calsenate Powdered.....	40.	42.27	1.15	0.03		70.	73.20	Conn. Agr. Expt. Sta., Sample 2983.
Riches, Piver & Co., New York, N. Y. Ceres	39.87	44.70	1.15	0.72			77.42	N. J. Agr. Expt. Sta., Bul. 424, 9 (1925).
The Sherwin-Williams Co., Cleveland, O. Dry Powdered.....	40.0	41.21	0.75	0.00	3.71	70.0	71.39	Conn. Agr. Expt. Sta., Sample 1655.
Standard Chemical Works, Inc., Reading, Pa. High Standard.....	40.02	41.28	1.15	0.40			71.50	N. J. Agr. Expt. Sta., Bul. 513, 5 (1930).
Vreeland Chemical Mfg. Co., Little Falls, N. J. Electro.....	39.87	42.33	1.15	0.06			73.30	N. J. Agr. Expt. Sta., Bul. 441, 6 (1926).
Western Wholesale Drug Co., Los Angeles, Cal. Devoe.....	40.00	41.01	0.77	1.66			70.95	Cal. Dept. Agr., Spec. Pub. 75, 22 (1927).

<sup>3</sup> Casein 18.75 percent; calcium oxide 46.80 percent. Sample is calcium caseinate.



TABLE II. ARSENATE OF LEAD

Manufacturer or Distributor and Brand	Water		Arsenic Oxide, As <sub>2</sub> O <sub>5</sub>				Lead Oxide, PbO		Publication
			Total		Water-Soluble				
	Guaranteed	Found	Guaranteed	Found	Guaranteed	Found	Guaranteed	Found	
	%	%	%	%	%	%	%	%	
Acme White Lead & Color Works, Detroit, Mich. Acme.....			30	32.85	1.0	0.35			Conn. Agr. Expt. Sta., Samples 1646 and 8513.
Ansbacher-Siegle Corp., New York, N. Y. Ansbacher's Triangle Brand.....			30.0	32.16	0.77	0.13	64.68		Conn. Agr. Expt. Sta., Sample 8852. Conn. Agr. Expt. Sta., Samples 2955 and 2957.
Norman Armstrong, Inc., White Plains, N. Y.....						0.00			
F. A. Bartlett Tree Expert Co., Stamford, Conn.....				32.00		0.31	63.71		Conn. Agr. Expt. Sta., Sample 9365.
The James Blanchard Co., New York, N. Y. Bonide Chemical Co., Inc., Utica, N. Y. Dry Powdered.....			30.00	32.39	0.75	0.17	66.90		Oreg. Agr. Expt. Sta., Cir. 64, 8 (1925). Maine Agr. Expt. Sta., Official Inspections 146, 131 (1932).
Bowker Chemical Co., Baltimore, Md. Bowker's Dry Powdered.....			31.0	33.09	0.77	0.15			Conn. Agr. Expt. Sta., Samples 1647 and 8230.
California Rex Spray Co., Benicia, Cal. Nu Rexform.....			30.00	31.51	0.77	0.45	64.50		Cal. Dept. Agr., Spec. Pub. 75, 14 (1927).
California Rex Spray Co., Benicia, Cal. Rex Basic.....			22.00	22.23	0.77	0.21	74.93		Cal. Dept. Agr., Spec. Pub. 75, 17 (1927).
California Rex Spray Co., Benicia, Cal. Rex Neutral Dry.....			24.00	32.77	0.77	0.46	64.70		Cal. Dept. Agr., Spec. Pub. 66, 16 (1926).
California Spray Chemical Co., Watsonville, Cal. Ortho Spray Basic.....			22.00	22.62		0.12	75.19		Cal. Dept. Agr., Spec. Pub. 75, 17 (1927).
California Spray Chemical Co., Watsonville, Cal. Ortho Spray Standard.....			30.00	31.97		0.23	65.25		Cal. Dept. Agr., Spec. Pub. 75, 14 (1927).

Central Chemical Co., Baltimore, Md.											
Gro-All			30.00	32.66	0.77	0.23		64.52	N. J. Agr. Expt. Sta., Bul. 594, 4 (1935).		
Chipman Chemical Co., Inc., Bound Brook, N. J.			30.00	32.52	1.07	0.00			Conn. Agr. Expt. Sta., Samples 1455 and 1458.		
Chipman Chemical Co., Inc., Bound Brook, N. J.			32.50	32.77	0.38	0.22		64.02	Conn. Agr. Expt. Sta., Sample 7610.		
Cooperative G.L.F. Mills, Inc., Buffalo, N. Y.			30.00	32.51	0.38	0.17		64.47	N. J. Agr. Expt. Sta., Bul. 594, 4 (1935).		
G.L.F. Powdered								64.25	Conn. Agr. Expt. Sta., Bul. 242, 150 (1922).		
Corona Chemical Co., Milwaukee, Wis.			30.00	32.20	0.77	0.18		64.80	Canada Dept. Agr., Div. Chem., Rept. Dominion Chemist (1928).		
Corona Dry								63.23	Conn. Agr. Expt. Sta., Bul. 242, 150 (1922).		
Deloro Chemical Co., Deloro, Ont., Canada	0.28			31.71		0.08			Conn. Agr. Expt. Sta., Sample 1648.		
Detroit White Lead Works, Detroit, Mich.			30.00	31.51	1.00	0.18			Canada Dept. Agr., Div. Chem., Rept. Dominion Chemist (1928).		
Rogers									Conn. Agr. Expt. Sta., Bul. 242, 150 (1922).		
Devoe & Reynolds Co., Inc., New York, N. Y.			31	32.35	1.07	0.19			Conn. Agr. Expt. Sta., Sample 1648.		
Standard									Canada Dept. Agr., Div. Chem., Rept. Dominion Chemist (1928).		
John Dorland, Cobalt, Ont., Canada <sup>1</sup>									Conn. Agr. Expt. Sta., Sample 8603.		
Dow Chemical Co., Midland, Mich.			30.00	31.16	0.75	0.34		65.04	Conn. Agr. Expt. Sta., Sample 1649.		
Dow Thos. C. Dunham, Inc., New York, N. Y.			30.00	32.06	1.53	0.60		63.55	Conn. Agr. Expt. Sta., Samples 2381 and 7675.		
Powder									N. J. Agr. Expt. Sta., Bul. 372, 10 (1922).		
Eastern States Farmers' Exchange, Springfield, Mass.			30.00	32.08	0.38	0.00			Conn. Agr. Expt. Sta., Sample 1649.		
Powdered									Conn. Agr. Expt. Sta., Samples 2381 and 7675.		
General Chemical Co., Baltimore, Md.			30.00	32.77	0.38	0.03		72.73	Cal. Dept. Agr., Spec. Pub. 75, 17 (1927).		
Orchard									Cal. Dept. Agr., Spec. Pub. 75, 14 (1927).		
General Chemical Co., New York, N. Y.			22.00	22.35	0.38	0.18		31.16	Cal. Dept. Agr., Spec. Pub. 75, 20 (1927).		
Orchard Basic									Cal. Dept. Agr., Spec. Pub. 66, 16 (1926).		
General Chemical Co., New York, N. Y.		51.00	15.00	15.48	0.38	0.17		69.90	N. J. Agr. Expt. Sta., Bul. 530, 4 (1931).		
Orchard Paste									Conn. Agr. Expt. Sta., Bul. 242, 150 (1922).		
General Chemical Co., New York, N. Y.			25.00	26.80	0.38	0.34		33.51			
Orchard Tri Plumbic											
General Chemical Co., New York, N. Y.		52.00	52.93	12.50	12.99	0.38	0.31	64.07			
Orchard Tri Plumbic, Paste								63.46			
G.L.F. Fertilizer Chemical & Paint Service, Rochester, N. Y.			30.00	32.19	0.38	0.31					
G.L.F. Powdered											
The Glidden Co., Cleveland, O.			31.00	31.97	0.77	0.44					
Glidden											

<sup>1</sup> Found to be ground gypsum.

TABLE II. ARSENATE OF LEAD—Continued.

Manufacturer or Distributor and Brand	Water		Arsenic Oxide, As <sub>2</sub> O <sub>5</sub>				Lead Oxide, PbO		Publication
	Guaranteed	Found	Total		Water-Soluble		Guaranteed	Found	
			Guaranteed	Found	Guaranteed	Found			
Goulard & Olena, Inc., New York, N. Y. G. & O. Powdered.....			30.00	31.21	1.15	0.86		64.26	N. J. Agr. Expt. Sta., Bul. 594, 4 (1935).
The Grasselli Chemical Co., Inc., New York, N. Y. Basic Powder.....			23.00	23.37	0.75	0.17		74.10	Cal. Dept. Agr., Spec. Pub. 66, 16 (1926). Conn. Agr. Expt. Sta., Samples 1650, 2384, 4691 and 7607.
The Grasselli Chemical Co., Inc., New York, N. Y. Grasselli.....			30.	32.35	0.75	0.14			Conn. Agr. Expt. Sta., Bul. 242, 150 (1922).
The Grasselli Chemical Co., Cleveland, O. Grasselli Paste.....	50.00	43.73	15.00	17.80	0.50	0.29		36.47	
The Grasselli Chemical Co., Inc., Toledo, O. Nu Rex Form.....			30.00	32.05	0.77	0.12		64.06	Conn. Agr. Expt. Sta., Sample 7608.
C. W. Hill Chemical Co., Los Angeles, Cal. Mission.....		0.18		31.28		0.33		64.84	Cal. Dept. Agr., Spec. Pub. 34, 15 (1922).
Interstate Chemical Co., Jersey City, N. J. Key Brand Paste.....			15.50	17.04		0.60		35.16	N. J. Agr. Expt. Sta., Bul. 424, 8 (1925). Conn. Agr. Expt. Sta., Samples 1457 and 7609.
Interstate Chemical Mfg. Co., Jersey City, N. J. Key-Dry.....			30.00	32.81	1.07	0.01			
The Latimer-Goodwin Chemical Co., Ta- coma, Wash. Latimer Dry Powdered..			28.37	30.78	0.77	0.16			Conn. Agr. Expt. Sta., Sample 1968.
Latter Laboratories, Inc., Bronx, N. Y. Arsokoll.....			16.87	17.85	0.23	0.40			Conn. Agr. Expt. Sta., Sample 2382.
Leggett & Bro., New York, N. Y.....	50.00	44.23	14.00	18.03	0.75	0.11	30.00	36.43	Conn. Agr. Expt. Sta., Bul. 242, 150 (1922).
Leggett & Bro., New York, N. Y.....			30.00	32.66	1.00	0.28	61.00	64.50	Conn. Agr. Expt. Sta., Bul. 242, 150 (1922).

John Lucas & Co., Inc., Philadelphia, Pa.			30.00	32.31	1.15	0.40		64.40	Cal. Dept. Agr., Spec. Pub. 75, 15 (1927).
Lucas Kil-Tone Co., Vineland, N. J. Green Cross.....			30.00	30.30	1.01	0.58		66.25	Cal. Dept. Agr., Spec. Pub. 75, 20 (1927).
Lucas-Kil-Tone Co., Vineland, N. J. Green Cross Oleated Paste.....	63.16	14.00	11.52	1.15	0.12			24.05	N. J. Agr. Expt. Sta., Bul. 513, 5 (1930).
Lucas Kil-Tone Co., Vineland, N. J. Kil Sect.....			29.90	31.9	0.99	0.84			Maine Agr. Expt. Sta., Official Inspections 158, 139 (1935).
R. G. Maxtone-Graham, Berkeley, Cal....	0.40			30.38		0.38		63.50	Cal. Dept. Agr., Spec. Pub. 34, 15 (1922).
Mechling Bros. Chemical Co., Camden, N. J. Mechling's.....			30.0	31.13	1.15	0.45			Conn. Agr. Expt. Sta., Samples 1456 and 7611.
Mechling Bros. Chemical Co., Camden, N. J. Mechling's Oleate Coated.....	53.37	13.30	14.10	1.15	0.26			30.31	N. J. Agr. Expt. Sta., Bul. 577, 5 (1935).
Mechling Bros. Chemical Co., Camden, N. J. Paste and Water.....	68.28	10.00	9.89	0.75	0.07			20.94	N. J. Agr. Expt. Sta., Bul. 459, 6 (1927).
Merrimac Chemical Co., Boston, Mass. Swift's.....	50.00	50.43	12.50	14.61	0.75	0.26	31.50	33.48	Conn. Agr. Expt. Sta., Bul. 242, 150 (1922).
Montgomery, Ward & Co., Portland, Ore.			30.00	31.50	1.00	0.20	63.00	65.10	Oreg. Agr. Expt. Sta., Cir. 84, 8 (1927).
National Chemical Co., Pittsburgh, Pa. Flag.....			30.00	31.39	0.77	0.27		64.26	Cal. Dept. Agr., Spec. Pub. 75, 15 (1927).
National Chemical Co., Pittsburgh, Pa. Flag Basic.....			22.00	22.16	0.77	0.11		74.36	Cal. Dept. Agr., Spec. Pub. 75, 18 (1927).
New Jersey Fertilizer Co., Adalink Chemical Div., Jersey City, N. J. Dry Powdered.....			30.00	32.00	1.07	0.06			Conn. Agr. Expt. Sta., Sample 1652.
Niagara Sprayer & Chemical Co., Inc., Middleport, N. Y. Niagara.....			30	32.27	0.77	0.18			Conn. Agr. Expt. Sta., Samples 1864 and 7674.
Niagara Sprayer & Chemical Co., Inc., Middleport, N. Y. Niagara Basic.....			22.00	22.52	0.77	0.11		75.28	Cal. Dept. Agr., Spec. Pub. 75, 18 (1927).
Niagara Sprayer & Chemical Co., Inc., Middleport, N. Y. No. 1 Niagara Entodust.....			30.00	31.17	0.77	0.29		66.20	Cal. Dept. Agr., Spec. Pub. 75, 15 (1927).
Nitrate Agencies Co., New York, N. Y. Naco.....			30.00	30.59	1.53	1.10	62.00	65.50	Conn. Agr. Expt. Sta., Bul. 242, 150 (1922).
The Oderberg Chemical Works, Ltd., Oderberg, Czechoslovakia.....				27.06		2.16		59.96	Conn. Agr. Expt. Sta., Bul. 300, 221 (1929).
Phillips Bros., New York, N. Y.....			30.00	30.90	0.25	0.86			Maine Agr. Expt. Sta., Official Inspections 130, 115 (1928).

TABLE II. ARSENATE OF LEAD—Continued

Manufacturer or Distributor and Brand	Water		Arsenic Oxide, As <sub>2</sub> O <sub>5</sub>				Lead Oxide PbO		Publication
	Guaranteed	Found	Total		Water-Soluble		Guaranteed	Found	
			Guaranteed	Found	Guaranteed	Found			
Pittsburgh Plate Glass Co., Newark, N. J. Corona Dry . . . . .				31.86		0.14		65.65	Conn. Agr. Expt. Sta., Bul. 272, 145 (1925).
Powers-Weightman-Rosengarten Co., Philadelphia, Pa. . . . .			30.00	32.78	2.30	0.77		64.59	Conn. Agr. Expt. Sta., Bul. 242, 150 (1922).
Riches, Piver & Co., New York, N. Y. . . . .	50.00	35.17	15.00	20.02	0.50	0.18	31.00	41.80	Conn. Agr. Expt. Sta., Bul. 272, 145 (1925).
Riches, Piver & Co., New York, N. Y. R. P. & Co. . . . .		0.12	30.00	30.80	1.53	1.20	62.00	64.61	Cal. Dept. Agr., Spec. Pub. 51, 15 (1925).
Schieffelin & Co., New York, N. Y. Paste		45.50	15.00	17.02	1.15	0.56		33.50	N. J. Agr. Expt. Sta., Bul. 372, 11 (1922).
Schieffelin & Co., New York, N. Y. Powder			30.00	31.93	1.00	0.20		63.50	N. J. Agr. Expt. Sta., Bul. 441, 6 (1926).
W. M. Sheldon, Vacaville, Cal. . . . .		0.21	30.00	30.00	1.00	0.29		63.50	Cal. Dept. Agr., Spec. Pub. 34, 15 (1922).
The Sherwin-Williams Co., Cleveland, O. Dry Powdered . . . . .			30.0	32.89	1.0	0.16			Conn. Agr. Expt. Sta., Samples 1651 and 8604.
The Sherwin-Williams Co., Cleveland, O. Sherwin-Williams Basic . . . . .				21.95	0.77	0.13		73.38	Cal. Dept. Agr., Spec. Pub. 75, 19 (1927).
D. B. Smith & Co., Utica, N. Y. Lightening			30.00	31.05	0.77	0.18		63.30	Conn. Agr. Expt. Sta., Bul. 272, 145 (1925).
Standard Chemical Works, Inc., Reading, Pa. High Standard . . . . .			31.00	31.66	0.69	0.42		65.90	N. J. Agr. Expt. Sta., Bul. 530, 4 (1931).
Toledo Rex Spray Co., Toledo, O. Rex. . . . .			15.00	17.45	1.15	0.73		34.20	N. J. Agr. Expt. Sta., Bul. 424, 8 (1925).
U. S. Smelting, Refining & Mining Co., Redding, Cal. . . . .		0.20	30.00	32.95	0.75	0.36	63.00	63.45	Cal. Dept. Agr., Spec. Pub. 34, 15 (1922).
Vreeland Chemical Mfg. Co., Little Falls, N. Y. Electro . . . . .			30.00	30.24	0.77	0.18		64.40	Conn. Agr. Expt. Sta., Bul. 272, 145 (1925).

TABLE III. ARSENATE OF MAGNESIUM

Manufacturer or Distributor and Brand	Arsenic Oxide, $As_2O_5$					Magnesium Arsenate, $Mg_3(AsO_4)_2$		Publication
	Total		Water-Soluble			Guaranteed	Found	
	Guaranteed	Found	Guaranteed	Found				
				<sup>1</sup> Official Method	<sup>2</sup> N. Y. Method	Guaranteed	Found	
Chipman Chemical Co., Inc., Bound Brook, N. J. Chipman Brand Dry Powdered . . .	32.00	31.38	0.75	0.19		48.80	47.89	Conn. Agr. Expt. Sta., Sample 2949.
The Dow Chemical Co., Midland, Mich. Dow	32.00	32.08	0.35	0.00	0.11	48.80	48.96	Conn. Agr. Expt. Sta., Sample 1656.
Mechling Bros. Chemical Co., Camden, N. J.	32.00	32.69	0.77	0.00	0.16	48.80	49.89	Conn. Agr. Expt. Sta., Sample 1451.
Mechling Bros. Chemical Co., Camden, N. J. Mexican Bean Beetle Destroyer . . . . .	7.99	8.08				12.20	12.33	Maine Agr. Expt. Sta., Official Inspections 150, 124 (1933).
Niagara Sprayer & Chemical Co., Middleport, N. Y. Bean Beetle Destroyer Dust or Spray	8.18	8.00	0.77	0.17		12.5	12.21	Maine Agr. Expt. Sta., Official Inspections 158, 139 (1935).

<sup>1</sup> A. O. A. C. *Methods of Analysis*, 1935, p. 52, sec. 49.<sup>2</sup> Method of Pearce, Norton and Chapman [N. Y. State Agr. Expt. Sta. Tech. Bul. 234 (1935)].

TABLE IV. ARSENITE OF ZINC

Manufacturer or Distributor and Brand	Arsenic, Metal				Publication
	Total		Water-Soluble		
	Guaranteed	Found	Guaranteed	Found	
	%	%	%	%	
California Spray Chemical Co., Watsonville, Cal. Ortho.....	30.31	30.75	0.38	0.07	Cal Dept. Agr., Spec. Pub. 34, 16 (1923).
General Chemical Co., New York, N. Y. Orchard	30.50	32.03	1.00	0.24	N. J. Agr. Expt. Sta., Bull. 459, 6 (1927).
Interstate Chemical Co., Jersey City, N. J. Key...	30.00	31.44	1.00	0.20	N. J. Agr. Expt. Sta., Bul. 459, 6 (1927).
The Kil-Tone Co., Vineland, N. J. Dry Powdered...	29.00	30.80	0.75	0.20	N. J. Agr. Expt. Sta., Bul. 407, 13 (1924).
Lucas Kil-Tone Co., Vineland, N. J. Green Cross...	28.40	29.98	0.75	0.16	N. J. Agr. Expt. Sta., Bul. 459, 6 (1927).
Thomsen Chemical Co., Baltimore, Md.....	30.50	30.56	1.00	0.19	N. J. Agr. Expt. Sta., Bul. 372, 24 (1922)

TABLE V. BORDEAUX MIXTURE

Manufacturer or Distributor and Brand	Copper		Calcium Hydroxide Found	Calcium Carbonate Found	Inert Calcium Compounds Guaranteed	Publication
	Guaranteed	Found				
Acme White Lead & Color Works, Detroit, Mich. Acme..	12.75	12.72	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 43 (1927).
Ansbacher-Siegle Corp., New York, N. Y. Adheso 9-0 Blue Dust.....	8.58	8.40	....	....	....	Maine Agr. Expt. Sta., Official Inspections 150, 123 (1933).
Ansbacher-Siegle Corp., New York, N. Y. Adheso 9-0 Blue Dust of A-11 Dust.....	9.00	9.04	....	....	....	Maine Agr. Expt. Sta., Official Inspections 154, 134 (1934).
Ansbacher-Siegle Corp., New York, N. Y. Adheso 7-0 Blue Dust.....	7.00	7.10	....	....	....	Maine Agr. Expt. Sta., Official Inspections 150, 123 (1933).
Ansbacher-Siegle Corp., New York, N. Y. Ansbacher's Triangle Brand Adheso 5-0 Blue Dust.....	5.00	5.86	....	....	....	N. J. Agr. Expt. Sta., Bul. 556, 11 (1933).
Ansbacher-Siegle Corp., New York, N. Y. Oxo.....	12.50	12.48	....	....	....	Maine Agr. Expt. Sta., Official Inspections 150, 123 (1933).
Norman Armstrong, Inc., White Plains, N. Y.....	....	13.22	....	....	....	Conn. Agr. Expt. Sta., Samples 2956 and 2958.
Aroostook Farmers' Insecticide Co., Presque Isle, Me....	9.00	9.12	....	....	....	Maine Agr. Expt. Sta., Official Inspections 150, 123 (1933).
Aroostook Farmers' Insecticide Co., Presque Isle, Me. Medina Quality Blue Dust S-11.....	8.95	10.44	....	....	....	Maine Agr. Expt. Sta., Official Inspections 142, 117 (1931).
Aroostook Supply & Transfer Co., Presque Isle, Me. G. & J. Brand Copper Lime Dust.....	9.00	9.24	....	....	....	Maine Agr. Expt. Sta., Official Inspections 158, 137 (1935).
James A. Blanchard Co., New York, N. Y. Lion.....	11.00	14.43	....	....	....	Cal. Dept. Agr., Spec. Pub. 58, 21 (1925).
Bowker Chemical Co., New York, N. Y. Bowker's.....	13.00	12.72	....	....	....	Maine Agr. Expt. Sta., Official Inspections 154, 134 (1934).
Bowker Chemical Co., New York, N. Y. Bowker's No. 9 Dust.....	9.00	9.52	....	....	....	Maine Agr. Expt. Sta., Official Inspections 158, 137 (1935).



TABLE V. BORDEAUX MIXTURE—Continued.

Manufacturer or Distributor and Brand	Copper		Calcium Hydroxide Found	Calcium Carbonate Found	Inert Calcium Compounds— Guaranteed	Publication
	Guaranteed	Found				
Bowker Chemical Co., New York, N. Y. Bowker's Pyrox without Poison <sup>1</sup> .....	11.15	11.44	....	....	....	N. J. Agr. Expt. Sta., Bul. 594, 9 (1935).
California Rex Spray Co., Benicia, Cal. Borco.....	17.00	19.63	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 43 (1927).
California Rex Spray Co., Benicia, Cal. Rex Bordeaux Materials Package 1.....	25.00	26.06	....	....	....	Cal. Dept. Agr., Spec. Pub. 66, 20 (1926).
California Rex Spray Co., Benicia, Cal. Rex Bordeaux Materials Package No. 2.....	....	....	91.91	4.30	....	Cal. Dept. Agr., Spec. Pub. 66, 20 (1926).
California Rex Spray Co., Benicia, Cal. Rex Bordeaux Powder.....	12.75	13.08	....	....	....	Cal. Dept. Agr., Spec. Pub. 66, 20 (1926).
California Spray Chemical Co., Watsonville, Cal. Ortho Powdered.....	12.75	13.09	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 40 (1930).
Chamberlin & Barclay, Inc., Cranbury, N. J. Old Reliable Stay Green.....	9.00	8.88	....	....	....	N. J. Agr. Expt. Sta., Bul. 594, 10 (1935).
Chipman Chemical Co., Inc., Bound Brook, N. J. Chip- man Brand Copper-Lime-Dust C30.....	9.00	9.31	....	....	....	N. J. Agr. Expt. Sta., Bul. 594, 11 (1935).
Chipman Chemical Engineering Co., Bound Brook, N. J.....	12.50	12.50	....	....	....	Oreg. Agr. Expt. Sta., Cir. 84, 12 (1927).
A. B. Clement, Mars Hill, Me. 20-80 Dusting Powder....	7.16	7.12	....	....	....	Maine Agr. Expt. Sta., Official Inspections 130, 115 (1928).
Devoe & Reynolds, New York, N. Y.....	18.00	11.15	....	....	....	Oreg. Agr. Expt. Sta., Cir. 84, 12 (1927).
Dow Chemical Co., Midland, Mich. Bordow.....	12.75	13.78	....	....	....	Oreg. Agr. Expt. Sta., Cir. 106, 17 (1931).
Dow Chemical Co., Midland, Mich. Dow Powdered Mag- nesium Bordo.....	25.00	24.99	....	....	75.00	Cal. Dept. Agr., Spec. Pub. 34, 22 (1922).
E-Z Way Co., Oakland, Cal. E-Z Burgundy.....	15.30	11.86	....	....	....	Cal. Dept. Agr., Spec. Pub. 58, 21 (1925).
F. A. Frazier Co., Pt. Richmond, Cal. Dosch Copper Lime Dust.....	3.50	4.48	....	....	90.00	Cal. Dept. Agr., Spec. Pub. 34, 23 (1922).

TABLE V. BORDEAUX MIXTURE—Continued.

F. A. Frazier Co., Pt. Richmond, Cal. Dosch Copper Lime Dust.....	2.54	2.84	.....	.....	90.00	Cal. Dept. Agr., Spec. Pub. 34, 23 (1922).
F. A. Frazier Co., Pt. Richmond, Cal. Frazier's Bordo "A".....	24.00	24.49	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 58, 21 (1925).
F. A. Frazier Co., Pt. Richmond, Cal. Frazier's Bordo "A".....	24.50	24.64	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 58, 21 (1925).
F. A. Frazier Co., Pt. Richmond, Cal. Frazier's Bordo "B".....	.....	.....	93.96	.....	.....	Cal. Dept. Agr., Spec. Pub. 58, 21 (1925).
General Chemical Co., New York, N. Y. Orchard.....	12.50	12.31	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 75, 43 (1927).
The Glidden Co., Cleveland, O. Glidden.....	16.00	15.24	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 58, 22 (1925).
The Glidden Co., Cleveland, O. Glidden Dry Powdered..	22.00	18.85	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 58, 22 (1925).
Goulard & Olena, Inc., New York, N. Y. G. & O. Bordo Mixture.....	12.50	13.36	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 594, 6 (1935).
Grasselli Chemical Co., Cleveland, O. Grasselli Powder..	13.00	13.10	.....	.....	.....	Maine Agr. Expt. Sta., Official Inspections 150, 123 (1933).
Hammond's Paint & Slug Shot Works, Beacon, N. Y. Pulp.....	5.50	4.15	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 441, 7 (1926).
Hood River Spray Co., Hood River, Oreg.....	24.00	24.60	.....	.....	.....	Oreg. Agr. Expt. Sta., Cir. 84, 12 (1927).
Hood River Spray Co., Hood River, Oreg. Copper Dust..	.....	8.18	.....	.....	.....	Oreg. Agr. Expt. Sta., Cir. 106, 15 (1931).
J. H. Howell, Planada, Cal. Dried Bordeaux Paste.....	.....	19.80	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 34, 23 (1922).
Interstate Chemical Co., Jersey City, N. J. Key.....	12.50	14.58	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 459, 7 (1927).
Keystone Laboratories, Inc., Coudersport, Pa. Keystone Brand 30-70 Copper, Lime Dust.....	10.50	11.67	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 530, 12 (1931).
Keystone Laboratories, Inc., Coudersport, Pa. Keystone Brand 20-80 Copper, Lime Dust.....	7.00	6.52	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 530, 11 (1931).
Keystone Laboratories, Inc., Coudersport, Pa. Keystone Brand 25-75 Copper, Lime Dust.....	8.70	8.71	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 530, 12 (1931).
The Kil-Tone Co., Vineland, N. J. Modified Kil-Tone.....	8.00	11.91	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 407, 9 (1924).
The Kil-Tone Co., Vineland, N. J. Modified Kil-Tone, Dry Form.....	22.50	23.20	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 407, 9 (1924).
Kirk, Geary & Co., Sacramento, Cal. Paste.....	.....	.....	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 51, 19 (1925).
Leggett & Bro., New York, N. Y. Anchor.....	4.50	4.79	.....	.....	.....	Conn. Agr. Expt. Sta., Bul. 242, 153 (1922).
John Lucas & Co., Inc., Philadelphia, Pa. Bordo Mixture Dry Powder 25%.....	25.00	27.14	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 407, 9 (1924).
John Lucas & Co., Inc., Philadelphia, Pa. Lucas Dry Powdered.....	16.00	15.84	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 75, 43 (1927).
Lucas Kil-Tone Co., Vineland, N. J. Aroostook Special 40-60 Copper Lime Dust.....	14.00	12.88	.....	.....	.....	Maine Agr. Expt. Sta., Official Inspections 142, 117 (1931).
Lucas Kil-Tone Co., Vineland, N. J. Basic Copper-Lime Dust 25-75.....	9.00	9.54	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 594, 13 (1935).

For footnotes see page 679

TABLE V. BORDEAUX MIXTURE—Concluded

Manufacturer or Distributor and Brand	Copper		Calcium Hydroxide Found	Calcium Carbonate Found	Inert Calcium Compounds— Guaranteed	Publication
	Guaranteed	Found				
	%	%	%	%	%	
Lucas Kil-Tone Co., Vineland, N. J. Cloros Dry Bordo 9%	9.00	9.24	....	....	....	Maine Agr. Expt. Sta., Official Inspections 142, 117 (1931).
Lucas Kil-Tone Co., Vineland, N. J. Cloros 12¾%.....	12.75	13.88	....	....	....	Maine Agr. Expt. Sta., Official Inspections 158, 137 (1935).
Lucas Kil-Tone Co., Vineland, N. J. Copper Lime Dust..	8.75	7.72	....	....	....	Maine Agr. Expt. Sta., Official Inspections 134, 112 (1929).
Lucas-Kil-Tone Co., Vineland, N. J. Green Cross.....	21.50	21.28	....	....	....	N. J. Agr. Expt. Sta., Bul. 459, 7 (1927).
Lucas Kil-Tone Co., Vineland, N. J. Green Cross Copper- Lime Dust.....	....	10.99	....	....	....	N. J. Agr. Expt. Sta., Bul. 459, 11 (1927).
Lucas Kil-Tone Co., Vineland, N. J. Green Cross Copper Lime Dust 30-70.....	10.71	11.56	....	....	....	Maine Agr. Expt. Sta., Official Inspections 146, 135 (1932).
Lucas-Kil-Tone Co., Vineland, N. J. Green Cross Copper- Lime Dust 25-75.....	7.50	9.35	....	....	....	N. J. Agr. Expt. Sta., Bul. 556, 15 (1933).
Lucas Kil-Tone Co., Vineland, N. J. Green Cross Dry Bordo 12%.....	12.00	12.40	....	....	....	Maine Agr. Expt. Sta., Official Inspections 146, 135 (1932).
Lucas-Kil-Tone Co., Vineland, N. J. Green Cross 22% Cloros.....	22.00	22.96	....	....	....	N. J. Agr. Expt. Sta., Bul. 556, 15 (1933).
Lucas-Kil-Tone Co., Vineland, N. J. Pine Tree Potato Dust-25-75-Copper-Lime Dust.....	9.00	9.22	....	....	....	N. J. Agr. Expt. Sta., Bul. 577, 12 (1934).
Lucas-Kiltone Co., Vineland, N. J. 20-80 Copper-Lime Dust.....	7.20	7.20	....	....	....	N. J. Agr. Expt. Sta., Bul. 594, 13 (1935).
Mechling Bros. Chemical Co., Camden, N. J.....	12.50	12.73	....	....	....	N. J. Agr. Expt. Sta., Bul. 459, 7 (1927).

Mechling Bros. Chemical Co., Camden, N. J. No. 25 Special Fungicidal Dust.....	8.90	9.23	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 594, 13 (1935).
Mechling Bros. Chemical Co., Camden, N. J. No. 20 Fungicidal Dust.....	7.10	7.01	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 594, 13 (1935).
Mechling Bros. Chemical Co., Camden, N. J. Powder...	16.00	17.80	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 441, 7 (1926).
Medina Chemical Co., Medina, N. Y. Medina Brand Process Blue Dust 9%.....	9.00	9.24	.....	.....	.....	Maine Agr. Expt. Sta., Official Inspections 138, 105 (1930).
Miller Products Co., Portland, Oreg. <sup>s</sup> .....	24.00	25.20	.....	.....	.....	Oreg. Agr. Expt. Sta., Cir. 84, 12 (1927).
Montgomery, Ward & Co., Portland, Oreg.....	14.00	12.5	.....	.....	.....	Oreg. Agr. Expt. Sta., Cir. 84, 12 (1927).
National Chemical Co., Pittsburgh, Pa. National Bordo "A".....	24.00	24.90	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 75, 43 (1927).
National Chemical Co., Pittsburgh, Pa. National Bordo "B".....	.....	.....	93.70	.....	.....	Cal. Dept. Agr., Spec. Pub. 75, 43 (1927).
Chas. C. Navlet Co., Inc., San José, Cal. Navco Home- made Bordeaux.....	24.00	24.35	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 58, 22 (1925).
Chas. C. Navlet Co., Inc., San José, Cal. Navco Home- mixed Bordeaux Package No. 1.....	24.00	24.26	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 58, 22 (1935).
Chas. C. Navlet Co., Inc., San José, Cal. Navco Home- mixed Bordeaux Package No. 2.....	.....	.....	93.91	.....	.....	Cal. Dept. Agr., Spec. Pub. 58, 22 (1925).
Chas. C. Navlet Co., Inc., San José, Cal. Navco Powder	12.75	10.79	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 58, 22 (1925).
New York Insecticide Co., Inc., Medina, N. Y. Medina Brand Process Blue Dust.....	6.72	7.40	.....	.....	.....	Maine Agr. Expt. Sta., Official Inspections 134, 112 (1929).
New York Insecticide Co., Medina, N. Y. Sanders Blue Dust 5-11.....	9.	11.1	.....	.....	.....	Maine Agr. Expt. Sta., Official Inspections 122, 86 (1926).
Niagara Sprayer & Chemical Co., Middleport, N. Y. Niagara Dry.....	12.75	12.82	.....	.....	.....	Maine Agr. Expt. Sta., Official Inspections 158, 137 (1935).
Niagara Sprayer & Chemical Co., Middleport, N. Y. Niagara Ins. Bordo Material.....	22.40	22.00	.....	.....	.....	Maine Agr. Expt. Sta., Official Inspections 146, 135 (1932).
Niagara Sprayer & Chemical Co., Middleport, N. Y. Niagara Spud Brand Dust 25-75.....	8.60	9.31	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 530, 15 (1931).
Niagara Sprayer Co., Middleport, N. Y. No. 3 Niagara D-6 Dust.....	6.80	7.66	.....	.....	.....	Maine Agr. Expt. Sta., Official Inspections 130, 115 (1928).
Niagara Sprayer & Chemical Co., Middleport, N. Y. S140 Bluestone Mixture.....	22.4	22.5	.....	.....	.....	Oreg. Agr. Expt. Sta., Cir. 106, 16 (1931).
Nitrate Agencies Co., Bayonne, N. J.....	13.00	14.14	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 459, 7 (1927).

TABLE V. BORDEAUX MIXTURE—Continued.

Manufacturer or Distributor and Brand	Copper		Calcium Hydroxide— Found	Calcium Carbonate— Found	Inert Calcium Compounds— Guaranteed	Publication
	Guaranteed	Found				
Pittsburgh Plate Glass Co., Newark, N. J. Corona.....	13.00	13.20	....	....	....	Maine Agr. Expt. Sta., Official Inspections 146, 135 (1932).
Reed & Perrine, Tennent, N. J. Tennent Blight Mixture..	9.00	11.09	....	....	....	N. J. Agr. Expt. Sta., Bul. 556, 18 (1933).
Riches, Piver & Co., New York, N. Y.....	15.00	17.50	....	....	....	N. J. Agr. Expt. Sta., Bul. 407, 9 (1924).
Rooney & Ely Co., Inc., Englishtown, N. J. Big Spud Brand Copper-Lime-Dust.....	9.00	8.66	....	....	....	N. J. Agr. Expt. Sta., Bul. 594, 16 (1935).
San José Spray Mfg. Co., San Jose, Cal. Twin Bordeaux, Package 1.....	24.00	25.09	....	....	....	Cal. Dept. Agr., Spec. Pub. 66, 20 (1926).
San José Spray Mfg. Co., San Jose, Cal. Twin Bordeaux, Package 2.....	....	....	....	83.32	12.70	Cal. Dept. Agr., Spec. Pub. 66, 20 (1926).
Sherwin-Williams Co., Cleveland, O. Fungi-Bordo.....	12.75	12.90	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 43 (1927).
Sherwin-Williams Co., Cleveland, O. Hemmingway Dry	12.75	13.13	....	....	....	Cal. Dept. Agr., Spec. Pub. 66, 20 (1926).
Sherwin-Williams Co., Cleveland, O. 25-75 Sherwin- Williams Copper Lime Dust.....	9.00	9.36	....	....	....	Maine Agr. Expt. Sta., Official Inspections 138, 105 (1930).
Skinner Machinery Co., Dunedin, Fla. Skinner's Special 30-70 Copper Lime Dust.....	10.00	12.11	....	....	....	N. J. Agr. Expt. Sta., Bul. 407, 16 (1924).
Sterling Chemical Co., Cambridge, Mass. Sterlingworth	10.00	11.96	....	....	....	Conn. Agr. Expt. Sta., Bul. 242, 153 (1922).
Summers Fertilizer Co., Baltimore, Md. Summers' Powder	11.00	10.80	....	....	....	Maine Agr. Expt. Sta., Official Inspections 138, 105 (1930).

Vreeland Chemical Mfg. Co., Little Falls, N. J. Electro.	18.00	19.78	....	..	....	N. J. Agr. Expt. Sta. Bul 424, 9 (1925).
Western Wholesale Drug Co. Devoe Standard.....	13.00	14.49	....	..	....	Cal. Dept. Agr., Spec. Pub. 101, 41 (1930).
Western Wholesale Drug Co. Nico Dust No. 102.....	7.00	7.05	....	..	....	Cal. Dept. Agr., Spec. Pub. 101, 41 (1930).

<sup>1</sup> 68.36% water.

<sup>2</sup> 68.64% water.

<sup>3</sup> A two powder preparation. One package contains partially dehydrated copper sulphate, the other hydrated lime. Copper is reported as found in the copper sulphate package.

<sup>4</sup> 50.71% water.

<sup>5</sup> Decomposed.

<sup>6</sup> 58.03% water.

<sup>7</sup> Includes casein spreader. Guaranteed hydrated lime with casein spreader, 100 percent.

TABLE VI. BORDEAUX MIXTURE—LEAD ARSENATE

Manufacturer or Distributor and Brand	Arsenic Oxide, As <sub>2</sub> O <sub>5</sub>				Copper (Cu)		Lead Oxide (PbO)	Water	Publication
	Total		Water-Soluble		Guaranteed	Found	Found	Found	
	Guaranteed	Found	Guaranteed	Found					
	%	%	%	%	%	%	%		
Acme White Lead & Color Works, Detroit, Mich. Acme 2-Way Spray	4.29	5.11	0.46	0.31	11.00	11.25	9.28	....	Cal. Dept. Agr., Spec. Pub. 75, 44 (1927).
Ansbacher Siegle Corp., New York, N. Y. Ansbacher	8.82	12.28			12.50	12.24	....	....	Maine Agr. Expt. Sta., Official Inspections 150, 122 (1933).
Bonide Chemical Co., Inc., Utica, N. Y. Hexpo for Bugs and Blight	32.20	32.69			4.00	4.26	....	....	Maine Agr. Expt. Sta., Official Inspections 145, 134 (1932).
Bowker Chemical Co., New York, N. Y. Bowker's Dry Powdered Bord aux Arsenate	7.96	8.11	0.77	0.41	15.00	14.62	....	....	N. J. Agr. Expt. Sta., Bul. 407, 12 (1924)
Bowker Chemical Co., New York, N. Y. Pyrox	5.00	5.57	0.46	0.06	....	6.70	1.28	65.95	Conn. Agr. Expt. Sta., Bul. 272, 146 (1925).
California Sprayer Co. Calispray Dust No. 86	13.46	13.92	1.15	0.44	3.80	4.45	27.67	....	Cal. Dept. Agr., Spec. Pub. 75, 44 (1927)
California Sprayer Co. Calispray Tomato Dust No. 86	13.50	15.17	1.15	0.23	3.80	4.90	44.90	....	Cal. Dept. Agr., Spec. Pub. 101, 16 (1930).
Chipman Chemical & Engineering Co., New York, N. Y. Bordo-Lead	7.29	8.73	0.38	0.18	....	16.47	15.24	....	Conn. Agr. Expt. Sta., Bul. 272, 146 (1925).
General Chemical Co., New York, N. Y. Orchard Bordeaux Lead	9.37	10.25	1.50	0.06	15.00	15.95	....	....	N. J. Agr. Expt. Sta., Bul. 459, 10 (1927).
The Glidden Co., Cleveland, O. Glidden Bordo-Arsenate	15.50	17.54	0.50	0.20	....	9.32	31.71	....	Conn. Agr. Expt. Sta., Bul. 242, 154 (1922).
The Glidden Co., Cleveland, O. Glidden Bordo-Arsenate	5.90	14.77	0.50	0.18	....	13.31	26.64	....	Conn. Agr. Expt. Sta., Bul. 272, 146 (1925).

A. M. Griffen Co., Plainfield, N. J. Bordeaux Lead.....	....	11.87	....	0.23	....	15.52	....	....	N. J. Agr. Expt. Sta., Bul. 577, 12 (1934).
Interstate Chemical Mfg. Co., Jersey City, N. J. Bordo-Lead.....	6.90	8.94	1.53	1.17	10.00	10.83	....	....	N. J. Agr. Expt. Sta., Bul. 594, 12 (1935).
Interstate Chemical Mfg. Co., Jersey City, N. J. Dry Powder Key-Cide.....	6.90	8.97	1.53	0.41	10.00	10.34	....	....	N. J. Agr. Expt. Sta., Bul. 556, 14 (1933).
Leggett & Bro., Inc., New York, N. Y. Bordeaux and Arsenate of Lead Paste..	2.15	2.91	0.30	0.15	5.00	5.65	4.86	53.30	N. J. Agr. Expt. Sta., Bul. 372, 21 (1922). Maine Agr. Expt. Sta., Official Inspections 134, 113 (1929).
Lucas Kil-Tone Co., Vineland, N. J. Beetle Mort Bordo Arsenate Dust.....	9.18	12.08	....	....	4.20	6.50	....	....	N. J. Agr. Expt. Sta., Bul. 594, 12 (1935).
Lucas-Kiltone Co., Philadelphia, Pa. Beetle Mort (with Lead).....	26.07	28.33	0.98	0.24	5.00	5.97	....	....	N. J. Agr. Expt. Sta., Bul. 594, 12 (1935).
Lucas Kil-Tone Co., Vineland, N. J. Green Cross Bordo Arsenate Dust Special.....	9.20	12.05	0.30	0.33	9.00	9.52	....	....	N. J. Agr. Expt. Sta., Bul. 485, 12 (1929).
Mechling Bros. Chemical Co., Camden, N. J. Bordeaux Dust with Poison.....	9.20	11.44	1.53	0.30	6.00	7.50	....	....	N. J. Agr. Expt. Sta., Bul. 459, 12 (1927).
Niagara Sprayer Co., Middleport, N. Y. Special Mixture No. 119.....	14.88	17.78	0.77	0.44	....	10.53	29.36	....	N. J. Agr. Expt. Sta., Bul. 372, 22 (1922).
Riches, Piver & Co., New York, N. Y. Ceres Bordeaux-Lead Powdered.....	5.20	8.02	0.77	0.86	11.59	11.65	....	....	N. J. Agr. Expt. Sta., Bul. 424, 16 (1925).
Rooney & Ely Co., Inc., Englishtown, N. J. Big Spud Grower 25-25-50 Copper-Lime-Arsenate Dust.....	9.20	10.92	0.77	0.12	9.00	8.71	....	....	N. J. Agr. Expt. Sta., Bul. 594, 15 (1935).
Sherwin-Williams Co., Cleveland, O. Insecto.....	18.40	16.52	0.77	0.21	4.00	4.96	33.73	....	N. J. Agr. Expt. Sta., Bul. 372, 23 (1922).
Sherwin-Williams Co., Cleveland, O. Pestroy.....	4.28	3.52	0.46	0.32	11.00	11.02	6.61	....	Cal. Dept. Agr., Spec. Pub. 75, 44 (1927).
Skinner Machinery Co., Dunedin, Fla. Skinner's Arsenate Bordeaux.....	26.01	28.25	....	0.28	4.00	2.64	....	....	N. J. Agr. Expt. Sta., Bul. 407, 16 (1924).
H. J. Smith Co., Utica N. Y. Hexpo....	6.90	8.37	0.50	0.28	....	18.07	18.89	....	Conn. Agr. Expt. Sta., Bul. 272, 146 (1925).
Vreeland Chemical Mfg. Co., New York, N. Y. Bordo-Lead Mixture.....	5.58	8.91	0.78	0.11	....	2.57	18.32	44.23	Conn. Agr. Expt. Sta., Bul. 272, 146 (1925).



TABLE VII. CALCIUM CASEINATE

Manufacturer or Distributor and Brand	Nitrogen	Casein N x 6.38	Calcium Oxide CaO	Publication
	%	%	%	
California Central Creameries, San Francisco, Cal. Kayso.....	3.28	20.93	46.29	Conn. Agr. Expt. Sta., Bul. 258, 369 (1924); 272, 149 (1925).
Casein Mfg. Co., New York, N. Y. A-7-ML.....	7.92	50.53	27.27	Conn. Agr. Expt. Sta., Bul. 258, 369 (1924).
Rosin & Co., Philadelphia, Pa. Red Diamond.....	3.31	21.12	50.64	Conn. Agr. Expt. Sta., Bul. 258, 369 (1924).

TABLE VIII. CALCIUM CYANIDE

Manufacturer or Distributor and Brand	Calcium Cyanide, Ca (CN) <sub>2</sub>		Publication
	Guaranteed	Found	
American Cyanamid Co., New York, N. Y. Cyanogas . . . . .	40.00	43.17	Cal. Dept. Agr., Spec. Pub. 75, 61 (1927).
American Cyanamid Co., New York, N. Y. Cyanogas-A . . . . .	40.00	45.89	Maine Agr. Expt. Sta., Official Inspections 138, 106 (1930).
American Cyanamid Co., New York, N. Y. G Grade . . . . .	....	71.35	N. J. Agr. Expt. Sta., Bul. 424, 12 (1925).
American Cyanamid Sales Co., Bakersfield, Cal. Cyanogas A-Dust	40.00	44.83	Cal. Dept. Agr., Spec. Pub. 101, 82 (1930).
American Cyanamid Sales Co., Bakersfield, Cal. Cyanogas Calcium Cyanide (Crude) A-Dust . . . . .	....	44.19	Cal. Dept. Agr., Spec. Pub. 101, 82 (1930).
American Cyanamid Sales Co., Bakersfield, Cal. Cyanogas Granular	....	48.62	Cal. Dept. Agr., Spec. Pub. 101, 82 (1930).
California Cyanide Co., Southgate, Cal. Calcyanide Fumigant Grade No. 1 . . . . .	88.00	91.73	Cal. Dept. Agr., Spec. Pub. 75, 61 (1927).
California Cyanide Co., Southgate, Cal. Cal-Sy . . . . .	25.00	27.73	Cal. Dept. Agr., Spec. Pub. 75, 61 (1927).
California Cyanide Co., Southgate, Cal. Citrofume Citrus Fumigant	53.00	54.30	Cal. Dept. Agr., Spec. Pub. 75, 61 (1927).
L. E. Neville, Los Angeles, Cal. Aero Rodent Exterminator <sup>1</sup> . . . . .	....	41.98	Cal. Dept. Agr., Spec. Pub. 34, 57 (1923).

<sup>1</sup> Calcium 52.77 percent; chloride 43.68 percent.

TABLE IX. CARBON DISULPHIDE

Manufacturer or Distributor	Carbon Disulphide, CS <sub>2</sub>		Residue on Evaporation	Hydrogen Sulphide	Publication
	Guaranteed	Found			
Brunwig Drug Co.....	99.00%	99.56%	0.02%	none	Cal. Dept. Agr., Spec. Pub. 51, 47 (1925).
Sun Drug Co., Pasadena, Cal.....	97.00	98.50	0.02	none	Cal. Dept. Agr., Spec. Pub. 51, 47 (1925).
Herbert F. Dugan, San Francisco, Cal. Kilmol Squirrel-gophene <sup>1</sup> .....	99.22	99.23	....	....	Cal. Dept. Agr., Spec. Pub. 66, 36 (1926).
Towne-Allison Drug Co., San Bernardino, Cal.....	....	99.90	0.09 <sup>2</sup>	none	Cal. Dept. Agr., Spec. Pub. 51, 47 (1925).
Western Wholesale Drug Co., Los Angeles, Cal.....	97.00	99.94	0.03 <sup>3</sup>	none	Cal. Dept. Agr., Spec. Pub. 51, 47 (1925).
Wheeler, Reynolds & Stauffer, San Francisco, Cal...	99.98	99.97	....	none	Cal. Dept. Agr., Spec. Pub. 51, 47 (1925).
Wheeler, Reynolds & Stauffer, San Francisco, Cal...	97.00	97.18	2.25	present	Cal. Dept. Agr., Spec. Pub. 51, 47 (1925).

<sup>1</sup> Free sulphur guaranteed 0.08 percent; found 0.10 percent. Irritant chemicals dissolved in oil, guaranteed 0.70 percent; found 0.67 percent.

<sup>2</sup> Chiefly ferric oxide.

<sup>3</sup> Guaranteed not more than 3.00 percent.

TABLE X. COPPER CARBONATE

Manufacturer or Distributor and Brand	Copper, Cu		Publication
	Guaranteed	Found	
Braun-Knecht-Herimann Co., San Francisco, Cal.....	50.00	52.10	Oreg. Agr. Expt. Sta., Cir. 84, 12 (1927).
California Spray Chemical Co., Watsonville, Cal. Ortho.....	51.92	52.40	Cal. Dept. Agr., Spec. Pub. 51, 19 (1925).
Hood River Spray Co., Hood River, Oreg.....	....	54.0	Oreg. Agr. Expt. Sta., Cir. 106, 18 (1931).
K. Inukai Co., San Francisco, Cal.....	52.00	52.60	Cal. Dept. Agr., Spec. Pub. 101, 40 (1930).
Miller Products Co., Portland, Oreg.....	18.0	22.2	Oreg. Agr. Expt. Sta., Cir. 106, 18 (1931).
Miller Products Co., Portland, Oreg. Carbo.....	53.0	56.2	Oreg. Agr. Expt. Sta., Cir. 106, 18 (1931).
Montgomery, Ward & Co., Portland, Oreg.....	54.00	54.00	Oreg. Agr. Expt. Sta., Cir. 64, 12 (1925).
The Mountain Copper Co., San Francisco, Cal.....	54.00	54.10	Oreg. Agr. Expt. Sta., Cir. 84, 12 (1927).
Nichols Copper Co., New York, N. Y.....	53.00	54.00	Oreg. Agr. Expt. Sta., Cir. 84, 12 (1927).
Pittsburgh Plate Glass Co., Newark, N. J. Corona Copper-Carb Dry	18.00	20.09	Cal. Dept. Agr., Spec. Pub. 75, 43 (1927).
Roessler & Hasslacher Chemical Co., New York, N. Y.....	53.00	49.30	Oreg. Agr. Expt. Sta., Cir. 64, 12 (1925).
San José Spray Mfg. Co., San Jose, Cal.....	....	53.30 <sup>1</sup>	Cal. Dept. Agr., Spec. Pub. 51, 19 (1925).
Sherwin-Williams Co., Emeryville, Cal.....	50.00	51.30	Oreg. Agr. Expt. Sta., Cir. 64, 12 (1925).
Wheeler, Reynolds & Stauffer, San Francisco, Cal. Stauffer's.....	50.00	50.13	Cal. Dept. Agr., Spec. Pub. 58, 22 (1925).
John C. Wiarda & Co., New York, N. Y.....	54.6	53.8	Oreg. Agr. Expt. Sta., Cir. 95, 15 (1929).

<sup>1</sup> 99.90 percent passes a 200-mesh sieve.

TABLE XI. COPPER SULPHATE

Manufacturer or Distributor and Brand	Copper		Copper Sulphate		Publication
	Guaranteed	Found	Guaranteed	Found	
	%	%	%	%	
American Smelting & Refining Co., San Francisco, Cal. "Selby".....	25.2	25.3	.....	.....	Oreg. Agr. Expt. Sta., Cir. 95, 15 (1929).
California Spray Chemical Co., Watsonville, Cal. Ortho Instant Bluestone.....	23.00	23.90	.....	.....	Cal. Dept. Agr., Spec. Pub. 101, 40 (1930).
California Spray Chemical Co., Watsonville, Cal. Ortho Powdered Bluestone, Package B.....	24.00	23.06	.....	.....	Cal. Dept. Agr., Spec. Pub. 58, 21 (1925).
Chipman Chemical Co., Bound Brook, N. J. Monohydrated.....	32.00	32.96	.....	.....	N. J. Agr. Expt. Sta., Bul. 594, 6 (1935).
Cooperative G.L.F. Mills, Inc., Buffalo, N. Y. Monohydrated.....	35.00	35.46	.....	.....	N. J. Agr. Expt. Sta., Bul. 594, 6 (1935).
Eastern States Farmers' Exchange, Springfield, Mass. 99%.....	.....	25.44	.....	99.93	Maine Agr. Expt. Sta., Official Inspections 158, 137 (1935).
Hood River Spray Co., Hood River, Oreg.....	25.5	26.5	.....	.....	Oreg. Agr. Expt. Sta., Cir. 106, 18 (1931).
Lucas Kil-Tone Co., Vineland, N. J.....	32.00	32.68	.....	.....	Maine Agr. Expt. Sta., Official Inspections 150, 123 (1933).
Lucas Kil-Tone Co., Vineland, N. J. Lucas Kil-Tone Monohydrated.....	35.00	35.44	.....	.....	Maine Agr. Expt. Sta., Official Inspections 158, 137 (1935).
Mammoth Chemical Co., New York, N. Y. Crystals.....	.....	.....	99.00	98.98	Maine Agr. Expt. Sta., Official Inspections 138, 106 (1930).
Manufacturer unknown <sup>1</sup> . Monohydrated.....	.....	.....	.....	.....	Conn. Agr. Expt. Sta., Bul. 300, 245 (1929).
Manufacturer unknown. Partially Dehydrated....	35.00	28.64	.....	.....	Maine Agr. Expt. Sta., Official Inspections 154, 136 (1934).
Miller Products Co., Portland, Oreg. Miller.....	.....	25.40	.....	.....	Oreg. Agr. Expt. Sta., Cir. 95, 15 (1929).

Mountain Copper Co., San Francisco, Cal. Mocóco Bluestone.....	....	25.30	99.00	99.38	Cal. Dept. Agr., Spec. Pub. 66, 20 (1926).
Nichols Copper Co., New York, N. Y.....	....	....	25.20	24.90	Oreg. Agr. Expt. Sta., Cir. 84, 15 (1927).
Phillips Bros., New York, N. Y. Large Crystal....	....	....	99.00	98.98	Maine Agr. Expt. Sta., Official Inspections 134, 114 (1929).
Sherwin-Williams Co., Cleveland, O. Basic.....	52.00	53.04	....	....	Maine Agr. Expt. Sta., Official Inspections 154, 136 (1934).
Superior Copper Products Co., Chicago, Ill. Mono- hydrated.....	35.00	35.20	....	....	Maine Agr. Expt. Sta., Official Inspections 158, 137 (1935).
L. Wetstone & Sons, Inc., Hartford, Conn.....	....	24.82	....	97.46	Conn. Agr. Expt. Sta., Bul. 346, 221 (1933).

<sup>1</sup> 94 percent passed a 300-mesh sieve.

TABLE XII. FORMALDEHYDE

Manufacturer or Distributor and Brand	Formaldehyde		Publication
	Guaranteed	Found	
	%	%	
Braun-Knecht-Heimann Co.....	37.00	36.80	Cal. Dept. Agr., Spec. Pub. 51, 54 (1925).
D. & B. Chemical Co., Portland, Oreg.	37.00	21.80	Oreg. Agr. Expt. Sta., Cir. 106, 21 (1931).
Minneapolis Drug Co.....	.....	36.21	North Dakota Bul. 17, 52 (1927).
Noyes Bros. & Cutler.....	.....	37.22	North Dakota Bul. 17, 52 (1927).
Perth Amboy Chem. Wks. P.A.C....	37.00	36.82	Cal. Dept. Agr., Spec. Pub. 58, 50 (1925).
Perth Amboy Chem. Wks. U. S. P. Solution.....	37.30	35.60	Cal. Dept. Agr., Spec. Pub. 51, 54 (1925).
Roessler & Hasslacher Chem. Co., New York, N. Y.....	37.00	37.70	Oreg. Agr. Expt. Sta., Cir. 84, 14 (1927).
Small's Seed Co., Riverside, Cal.....	37.00	37.05	Cal. Dept. Agr., Spec. Pub. 101, 85 (1930).
Western Wholesale Drug Co., Los Angeles, Cal., U.S.P. Solution.....	37.30	37.28	Cal. Dept. Agr., Spec. Pub. 51, 54 (1925).

TABLE XIII HELLEBORE

Manufacturer or Distributor and Brand	Total Ash	Acid-Insoluble Ash	Alkaloids		Nitrogen	Publication
			Guaranteed	Found		
J. L. Hopkins & Co., New York, N. Y. White Hellebore Root.....	11.83	6.97	0.79	1.07	1.21	Conn. Agr. Expt. Sta., Bull. 242, 156 (1922).
Interstate Chemical Co., Jersey City, N. J. Key.....	10.56	5.03	0.25	1.43	1.29	Conn. Agr. Expt. Sta., Bul. 242, 156 (1922).
Leggett & Bro., New York, N. Y. Anchor....	7.50	3.23	0.20	1.26	1.59	Conn. Agr. Expt. Sta., Bul. 242, 156 (1922).
Lehn & Fink, New York, N. Y. <sup>1</sup> .....	....	....	....	....	....	Ore. Agr. Expt. Sta., Cir. 64, 15 (1925).
S. B. Penick & Co., New York, N. Y. Helle- bore Root.....	9.25	5.40	1.14	1.27	....	Conn. Agr. Expt. Sta., Bul. 242, 156 (1922).
S. B. Penick & Co., New York, N. Y. Helle- bore Root.....	4.46	1.05	1.00	2.70	1.48	Conn. Agr. Expt. Sta., Bul. 242, 156 (1922).

<sup>1</sup> Guaranteed to contain the alkaloids of powdered hellebore. Not analyzed.



TABLE XIV. HYDROCYANIC ACID

Manufacturer or Distributor and Brand	Hydrogen Cyanide		Publication
	Guaranteed	Found	
	%	%	
California Cyanide Co., Cudahy, Cal. Calcyco Braun Gas.....	80.00	82.30	Cal. Dept. Agr., Spec. Pub. 58, 47 (1925).
Morago & Woodhead, Whittier, Cal. Hydro-Prussic Acid.....	96.98	96.80	Cal. Dept. Agr., Spec. Pub. 34, 24 (1923).
Owl Fumigating Co. Aero.....	96.00	97.50	Cal. Dept. Agr., Spec. Pub. 66, 34 (1926).
Owl Fumigating Corporation. Owl Prussic Acid.....	.....	97.60	Cal. Dept. Agr., Spec. Pub. 34, 24 (1923).
The Pacific R & H Chemical Corp. Hydro-Cy.....	96.00	97.27	Cal. Dept. Agr., Spec. Pub. 66, 34 (1926).
The Pacific R & H Chemical Corp. Pacific R & H.....	96.98	97.19	Cal. Dept. Agr., Spec. Pub. 51, 20 (1925).

TABLE XV. LIME-SULPHUR, DRY

Manufacturer or Distributor and Brand	Total Sulphur	Calcium Polysulphide		Calcium Thiosulphate		Free Sulphur		Publication
		Guaranteed	Found	Guaranteed	Found	Guaranteed	Found	
	%	%	%	%	%	%	%	
Acme White Lead & Color Works, Boston, Mass. Acme.....	61.61	70.00	.....	5.00	.....	10.00	.....	Maine Agr. Expt. Sta., Official Inspections 150, 121 (1933).
Bowker Chemical Co., New York, N. Y.....	59.10	.....	.....	.....	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 441, 8 (1926).
California Rex Spray Co., Benicia, Cal. Horse-shoe.....	.....	63.00	72.62	5.00	9.16	12.00	6.76	Cal. Dept. Agr., Spec. Pub. 66, 23 (1926).
California Spray Chemical Co., Watsonville, Cal. Ortho.....	.....	64.00	69.30	6.00	11.10	15.00	9.38	Cal. Dept. Agr., Spec. Pub. 75, 32 (1927).
Chipman Chemical Engineering Co., Inc., Bound Brook, N. J. Chipman Brand.....	63.29	.....	.....	.....	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 513, 8 (1930).
W. C. Collins, San Francisco, Cal.....	.....	.....	53.91	.....	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 34, 30 (1923).
Devoc & Reynolds Co., New York, N. Y.....	.....	70.00	70.30	5.00	13.50	8.00	11.20	Oreg. Agr. Expt. Sta., Cir. 84, 7 (1927).
The Dow Chemical Co., Midland, Mich.....	.....	64.00	67.04	6.00	12.92	15.00	9.94	Cal. Dept. Agr., Spec. Pub. 75, 32 (1927).
General Chemical Co., New York, N. Y. Orchard Brand.....	62.01	.....	.....	.....	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 577, 9 (1934).
The Glidden Co., Cleveland, O. Glidden.....	.....	63.00	59.27	5.00	7.45	12.00	18.42	Cal. Dept. Agr., Spec. Pub. 58, 32 (1925).
The Glidden Co., Cleveland, O. Glidden.....	.....	71.00	52.45	5.00	10.64	8.00	21.35	Cal. Dept. Agr., Spec. Pub. 58, 52 (1925).
Grasselli Chemical Co.....	.....	.....	61.10	.....	6.85	.....	8.23	Conn. Agr. Expt. Sta., Bul. 300, 274 (1929).
Hemmingway's, Oakland, Cal.....	.....	65.00	63.80	5.00	6.80	15.00	15.40	Oreg. Agr. Expt. Sta., Cir. 84, 7 (1927).
Interstate Chemical Co., Jersey City, N. J. Key	62.43	.....	.....	.....	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 441, 8 (1926).
Leggett & Bro., Inc., New York, N. Y.....	60.79	.....	.....	.....	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 441, 8 (1926).
John Lucas & Co., Inc., Philadelphia, Pa. Lucas	.....	70.00	64.44	5.00	6.38	10.00	13.08	Cal. Dept. Agr., Spec. Pub. 75, 32 (1927).

Lime-Sulphur, Dry

TABLE XV. LIME-SULPHUR, DRY—Continued.

Manufacturer or Distributor and Brand	Total Sulphur	Calcium Polysulphide		Calcium Thiosulphate		Free Sulphur		Publication
		Guaranteed	Found	Guaranteed	Found	Guaranteed	Found	
Lucas Kil-Tone Co., Vineland, N. J.....	59.75	70.00	....	5.00	....	10.00	....	Maine Agr. Expt. Sta., Official Inspections 158, 138 (1935).
Mechling Bros. Chemical Co., Camden, N. J...	60.42	70.00	....	5.00	....	10.00	....	Maine Agr. Expt. Sta., Official Inspections 150, 121 (1933).
Montgomery Ward & Co., Portland, Orég....	....	70.00	64.00	5.00	8.70	10.00	12.00	Oreg. Agr. Expt. Sta., Cir. 84, 7 (1927).
Chas. C. Navlet Co., San José, Cal. Navco..	....	65.00	63.98	5.00	6.08	15.00	13.08	Cal. Dept. Agr., Spec. Pub. 75, 32 (1927).
Niagara Sprayer & Chemical Co., Middleport, N. Y. Dry Sulphur Lime Dust.....	59.17	70.00	....	5.00	....	10.00	....	Maine Agr. Expt. Sta., Official Inspections 150, 121 (1933).
Niagara Sprayer & Chemical Co., Middleport, N. Y. Niagara.....	....	64.00	74.50	6.00	10.18	15.00	3.44	Cal. Dept. Agr., Spec. Pub. 101, 29 (1930).
Nitrate Agencies Co., Bayonne, N. J.....	60.88	....	....	....	....	....	....	N. J. Agr. Expt. Sta., Bul. 459, 9 (1927).
Pittsburgh Sprayer & Glass Co., Newark, N. J. Corona Powdered.....	59.24	....	....	....	....	....	....	N. J. Agr. Expt. Sta., Bul. 594, 8 (1935).
Sherwin-Williams Co., Cleveland, O.....	64.93	70.00	....	5.00	....	10.00	....	Maine Agr. Expt. Sta., Official Inspections 158, 138 (1935).
E. H. Smith, Berkeley, Cal.....	25.02	....	33.05	....	6.10	....	35.36	Cal. Dept. Agr., Spec. Pub. 34, 30 (1923).

TABLE XVI. LIME-SULPHUR SOLUTION

Manuf acturer or Dist ibutor and Brand	Polysulphide Sulphur, Found	Thiosulphate Sulphur, Found	Total Sulphur		Calcium Polysulphide		Calcium Thiosulphate		Baumé Gravity, degrees		Publi a ion
			Guaranteed	Found	Guaranteed	Found	Guaranteed	Found	Guaranteed	Found	
			%	%	%	%	%	%	%	%	
W. A. Allen, Pittstown, N. J. Allen's.....	.....	.....	.....	16.73	.....	.....	.....	.....	.....	26.00	N. J. Agr. Expt. Sta., Bul. 594, 8 (1935).
Ansbacher-Siegle Corp., New York, N. Y. Ansbacher's Triangle Brand.....	.....	.....	.....	24.24	.....	.....	.....	.....	.....	31.00	N. J. Agr. Expt. Sta., Bul. 594, 8 (1935).
Banning Spray Mfg. Co., Banning, Cal....	.....	.....	.....	.....	.....	21.10	.....	7.90	.....	30.00	Cal. Dept. Agr., Spec. Pub. 53, 27 (1925).
Bear Creek Spray Co., Medford, Oreg.....	.....	.....	.....	22.90	.....	24.20	.....	.....	30.00	29.10	Oreg. Agr. Expt. Sta., Cir. 84, 6 (1927).
James A. Blanchard Co., New York, N. Y. Lion.....	.....	.....	.....	.....	24.00	25.04	1.00	2.13	.....	30.00	Cal. Dept. Agr., Spec. Pub. 75, 30 (1927).
Calcium Sulphide Corp., Damascus, Va. Cal-Mo-Sul.....	.....	.....	.....	34.87	.....	.....	.....	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 530, 8 (1931).
California Growers' Association, Inc., Los Angeles, Cal.....	24.07	1.09	.....	25.16	.....	.....	.....	.....	.....	34.07	Cal. Dept. Agr., Spec. Pub. 34, 28 (1923).
California Paint Co., Oakland, Cal.....	24.32	0.95	.....	25.26	.....	.....	.....	.....	.....	33.90	Cal. Dept. Agr., Spec. Pub. 34, 28 (1923).
California Rex Spray Co., Benicia, Cal. Rex	.....	.....	.....	.....	27.90	30.22	2.10	1.75	32.00	32.64	Cal. Dept. Agr., Spec. Pub. 75, 30 (1927).
California Spray Chemical Co., Watsonville, Cal. Del Monte.....	.....	.....	.....	.....	26.00	30.44	2.00	1.46	31.00	31.97	Cal. Dept. Agr., Spec. Pub. 101, 26 (1930).
California Spray Chemical Co., Watsonville, Cal. Ortho.....	.....	.....	.....	.....	28.00	30.30	2.00	1.75	.....	32.75	Cal. Dept. Agr., Spec. Pub. 75, 30 (1927).

Lime-Sulphur Solution

TABLE XVI. LIME-SULPHUR SOLUTION—Continued

Manufacturer or Distributor and Brand	Polysulphide Sulphur, Found	Thiosulphate Sulphur, Found	Total Sulphur		Calcium Polysulphide		Calcium Thiosulphate		Baumé Gravity, degrees		Publication
			Guaranteed	Found	Guaranteed	Found	Guaranteed	Found	Guaranteed	Found	
	%	%	%	%	%	%	%	%	%	%	
Chicken Pharmacy, Petaluma, Cal. C. P. Lice and Mite Liquid.....	.....	.....	.....	.....	.....	35.34	.....	1.52	.....	35.00	Cal. Dept. Agr., Spec. Pub. 51, 10 (1925).
Chino Valley Apple Growers' Association, Chino, Cal.....	.....	.....	.....	.....	26.50	22.22	3.50	6.84	30.00	29.70	Cal. Dept. Agr., Spec. Pub. 58, 27 (1925).
Lowell M. Clarke Home.....	.....	.....	.....	.....	28.00	28.52	1.00	2.12	.....	31.75	Cal. Dept. Agr., Spec. Pub. 75, 30 (1927).
S. P. Conover & Bro., Wickatunk, N. J....	.....	.....	.....	25.23	.....	.....	.....	.....	.....	33.00	N. J. Agr. Expt. Sta., Bul. 556, 10 (1933).
Cooperative G.L.F. Mills, Inc., Buffalo, N. Y. G.L.F. Quality.....	.....	.....	.....	25.16	.....	.....	.....	.....	.....	32.00	N. J. Agr. Expt. Sta., Bul. 577, 8 (1934).
Cunningham & Thomas, Ukiah, Cal. C.&T.	.....	.....	.....	.....	30.00	28.32	2.00	2.43	30.00	31.00	Cal. Dept. Agr., Spec. Pub. 75, 30 (1927).
The Dalles Spray Co., The Dalles, Oreg...	.....	.....	.....	20.60	.....	27.40	.....	.....	30.00	30.30	Oreg. Agr. Expt. Sta., Cir. 106, 10 (1931).
H. P. Deming, Winsted, Conn <sup>1</sup> .....	22.74	0.61	.....	23.38	.....	29.42	.....	1.45	.....	.....	Conn. Agr. Expt. Sta., Bul. 346, 232 (1933).
farm Bureau Coop. Exchange, Eugene, Oreg.....	.....	.....	.....	18.70	.....	19.40	.....	.....	.....	29.00	Oreg. Agr. Expt. Sta., Cir. 84, 6 (1927).
T. A. Felton's Portland, Oreg.....	.....	.....	.....	23.10	26.00	27.00	.....	.....	30.00	31.10	Oreg. Agr. Expt. Sta., Cir. 64, 6 (1925).
F. A. Frazier Co.....	.....	.....	.....	.....	28.50	30.95	1.50	1.90	32.00	32.63	Cal. Dept. Agr., Spec. Pub. 66, 22 (1926).
General Chemical Co., New York, N. Y. Orchard Brand.....	.....	.....	.....	25.01	.....	.....	.....	.....	.....	32.00	N. J. Agr. Expt. Sta., Bul. 577, 8 (1934).

<sup>1</sup> All footnotes on page 697.

Germain Seed & Plant Co., Los Angeles, Cal. <sup>2</sup> .....	.....	.....	25.00	25.54	.....	31.31	.....	1.75	.....	33.50	Cal. Dept. Agr., Spec. Pub. 75, 30 (1927).
The Grasselli Chemical Co., New York, N. Y. Grasselli <sup>3</sup> .....	24.08	0.44	.....	24.53	.....	30.65	.....	1.04	.....	31.90	Conn. Agr. Expt. Sta., Sample 2882.
C. H. Haines & Son, Palmyra, N. J.....	.....	.....	.....	24.86	.....	.....	.....	.....	.....	32.00	N. J. Agr. Expt. Sta., Bul. 530, 9 (1931).
Herbert & Herbert, Inc., Perth Amboy, N.J. ....	.....	.....	.....	25.64	.....	.....	.....	.....	.....	32.50	N. J. Agr. Expt. Sta., Bul. 441, 8 (1926).
Hood River Spray Co., Hood River, Oreg... ..	.....	.....	24.00	24.70	.....	27.10	.....	.....	32.00	31.00	Oreg. Agr. Expt. Sta., Cir. 84, 6 (1927).
Hood River Spray Co., Hood River, Oreg... ..	.....	.....	22.00	24.50	.....	28.20	.....	.....	30.00	30.40	Oreg. Agr. Expt. Sta., Cir. 84, 6 (1927).
Imperial Laboratories, Kansas City, Mo. Imperial Lice and Mite Remedy.....	25.28	1.22	.....	26.50	.....	31.98	.....	2.90	.....	33.50	Cal. Dept. Agr., Spec. Pub. 34, 29 (1923).
J. G. Orchards, Newburg, Oreg.....	.....	.....	.....	22.70	.....	24.00	.....	.....	30.00	29.10	Oreg. Agr. Expt. Sta., Cir. 84, 6 (1927).
Leffingwell Rancho Co. XXX.....	.....	.....	.....	.....	30.00	30.62	1.50	2.00	32.00	33.00	Cal. Dept. Agr., Spec. Pub. 75, 30 (1927).
Leggett & Bro., Inc., New York, N. Y. Anchor.....	.....	.....	.....	25.82	.....	.....	.....	.....	.....	33.00	N. J. Agr. Expt. Sta., Bul. 441, 8 (1926).
B. Leis, Beaverton, Oreg.....	.....	.....	24.00	24.10	.....	26.70	.....	.....	30.00	30.20	Oreg. Agr. Expt. Sta., Cir. 84, 6 (1927).
The Chas. H. Lilly Co., Seattle, Wash.....	.....	.....	.....	24.80	.....	30.10	.....	.....	31.00	32.00	Oreg. Agr. Expt. Sta., Cir. 95, 8 (1929).
Los Angeles Chemical Co., Los Angeles, Cal. Mission.....	.....	.....	.....	.....	28.00	31.24	4.00	2.12	32.00	32.00	Cal. Dept. Agr., Spec. Pub. 66, 22 (1926).
A. R. Maas Chemical Co., Los Angeles, Cal. ....	.....	.....	.....	.....	28.50	29.92	1.50	2.43	.....	32.50	Cal. Dept. Agr., Spec. Pub. 75, 30 (1927).
Manufacturer unknown <sup>5</sup> .....	.....	.....	.....	.....	.....	30.55	.....	2.75	.....	.....	Conn. Agr. Expt. Sta., Bul. 346, 232 (1933).
Mechling Bros. Chemical Co., Camden, N.J. ....	.....	.....	.....	24.69	.....	.....	.....	.....	.....	31.50	N. J. Agr. Expt. Sta., Bul. 577, 8 (1934).
Middlesex Chemical Co., Malden, Mass. <sup>6</sup> ..	25.01	0.77	.....	25.80	.....	31.74	.....	1.72	.....	.....	Conn. Agr. Expt. Sta., Sample 1239.

Lime-Sul Soluti

TABLE XVI LIME-SULPHUR SOLUTION—Continued.

Manufacturer or Distributor and Brand	Polysulphide Sulphur, Found	Thiosulphate Sulphur, Found	Total Sulphur		Calcium Polysulphide		Calcium Thiosulphate		Baumé Gravity, degrees		Publication
			Guaranteed	Found	Guaranteed	Found	Guaranteed	Found	Guaranteed	Found	
	%	%	%	%	%	%	%	%	%	%	
Miller Products Co., Portland, <b>Oreg.</b> .....	....	....	22.10	24.60	....	26.20	....	....	30.00	32.30	Oreg. Agr. Expt. Sta., Cir. 84, 6 (1927).
I. L. Mills, Collinsville, <b>Conn.</b> <sup>7</sup> .....	16.00	0.45	....	16.46	....	20.45	....	1.07	....	22.10	Conn. Agr. Expt. Sta., Sample 5172.
Montgomery Ward & Co.....	....	....	....	24.50	26.40	26.20	....	....	30.00	32.40	Oreg. Agr. Expt. Sta., Cir. 84, 6 (1927).
Murphy Oil Co., East Whittier, <b>Cal.</b> .....	12.95	3.39	....	16.34	....	19.55	....	8.05	....	25.00	Cal. Dept. Agr., Spec. Pub. 34, 29 (1923).
National Chemical Co., Pittsburgh, Pa. Flag.....	....	....	....	....	28.50	32.56	1.50	1.25	32.00	34.71	Cal. Dept. Agr., Spec. Pub. 75, 30 (1927).
Chas. C. Navlet Co., Inc., San José, Cal. Navco.....	....	....	....	....	....	31.73	....	1.34	32.00	32.80	Cal. Dept. Agr., Spec. Pub. 58, 28 (1925).
Niagara Sprayer & Chemical Co., Middleport, N. Y. Niagara Brand.....	....	....	....	25.82	....	....	....	....	....	32.00	N. J. Agr. Expt. Sta., Bul. 594, 8 (1935).
Parker's Laboratories, South Pasadena, Cal. Parker's Magic Discovery <sup>8</sup> .....	....	....	....	....	....	4.71	....	2.43	....	....	Cal. Dept. Agr., Spec. Pub. 51, 10 (1925).
Pomona Valley Lime & Sulphur Co., Gold Buckle.....	....	....	....	....	25.00	31.32	1.50	1.71	32.00	32.50	Cal. Dept. Agr., Spec. Pub. 75, 31 (1927).
San José Spray Mfg. Co., San José, Cal. San José.....	....	....	....	....	29.00	30.47	....	1.45	32.00	32.11	Cal. Dept. Agr., Spec. Pub. 101, 27 (1930).
Sherwin-Williams Co., Cleveland, O. Hemmingway's.....	....	....	....	....	29.00	30.30	....	1.52	32.00	32.25	Cal. Dept. Agr., Spec. Pub. 75, 31 (1927).
Sherwin-Williams Co., Cleveland, O. Liquid.....	....	....	....	25.63	....	....	....	....	....	32.00	N. J. Agr. Expt. Sta., Bul. 594, 8 (1935).
Small's Seed Co., Riverside, Cal. Small's..	....	....	....	....	27.90	31.07	2.10	1.44	32.00	32.50	Cal. Dept. Agr., Spec., Pub. 101, 28 (1930).

Standard Chemical Works, Reading, Pa...	....	....	25.00	25.72	....	....	....	....	....	32.50	N. J. Agr. Expt. Sta., Bul. 459, 8 (1927).
Sterling Chemical Co., Cambridge, Mass. Sterlingworth Lime & Sulfur Wash.....	....	....	....	25.75	....	....	....	....	....	32.00	N. J. Agr. Expt. Sta., Bul. 372, 14 (1922).
Gideon Stotz, Salem, Oreg.....	....	....	....	23.20	27.20	26.20	....	....	30.00	29.90	Oreg. Agr. Expt. Sta., Cir. 84, 6 (1927).
Sutherlin Spray Plant, Sutherlin, Oreg.....	....	....	....	22.40	....	23.20	....	....	30.00	30.00	Oreg. Agr. Expt. Sta., Cir. 84, 6 (1927).
S. Tinel, Yucaipa, Cal.....	15.39	3.46	....	18.35	....	19.33	....	8.21	....	29.50	Cal. Dept. Agr., Spec. Pub. 34, 29 (1923).
Valley Fruit Co., Walla Walla, Wash.....	....	....	....	25.20	31.80	30.90	....	....	30.00	31.90	Oreg. Agr. Expt. Sta., Cir. 84, 6 (1927).
G. P. Weldon, Ontario, Cal.....	17.82	1.18	....	19.00	....	....	....	....	....	27.00	Cal. Dept. Agr., Spec. Pub. 34, 28 (1923).
Yakima Valley Spray Co., Yakima, Wash.	....	....	....	24.70	....	29.00	....	....	31.50	31.30	Oreg. Agr. Expt. Sta., Cir. 95, 8 (1929).
Yucaipa Valley Fruit Co. Mountain Boy..	....	....	....	....	28.00	28.20	2.00	2.43	32.00	31.50	Cal. Dept. Agr., Spec. Pub. 75, 31 (1927).

<sup>1</sup> Calcium sulphate 0.13 percent.

<sup>2</sup> Calcium oxide, guaranteed 10.00 percent; found 9.85 percent.

<sup>3</sup> Calcium sulphate 0.03 percent; arsenic 1.2 parts per million.

<sup>4</sup> Calcium oxide 11.2 percent; sodium chloride 0.12 percent; potassium and sodium sulphates, 0.38 percent; cyanogen compounds as ferrocyanide 3.13 percent. Polysulphide sulphur guaranteed 11.69 percent; thiosulphate sulphur guaranteed 5.21 percent. Made with refuse gas-house lime.

<sup>5</sup> Calcium sulphate 0.30 percent; phenol trace; water 66.40 percent.

<sup>6</sup> Calcium sulphate 0.06 percent.

<sup>7</sup> Calcium sulphate 0.04 percent.

<sup>8</sup> Sugar 0.46 percent.



TABLE XVII. NICOTINE DUSTS

Manufacturer or Distributor and Brand	Nicotine		Fineness		Publication
	Guaranteed	Found	100 Mesh	200 Mesh	
Anaheim Feed & Fuel Co., Anaheim, Cal. Double Nico-Dust..	%	%	%	%	Cal. Dept. Agr., Spec. Pub. 34, 44 (1923).
Ansbacher Insecticide Co., Inc., New York, N. Y. Adheso Nicotine Carrier Dust.....	2.00	1.63	.....	.....	N. J. Agr. Expt. Sta., Bul. 485, 7 (1929).
Ansbacher-Siegle Corp., New York, N. Y. Adheso A-14, Nico- tine Dust.....	3.00	2.74	.....	.....	N. J. Agr. Expt. Sta., Bul. 577, 7 (1935).
Z. N. Beach, Wallingford, Conn. Tobacco Dust.....	.....	1.66	.....	.....	Conn. Agr. Expt. Sta., Bul. 300, 362 (1929).
Bomberger Seed Co., Modesto, Cal. Double Nico-Dust.....	.....	1.29	.....	.....	Cal. Dept. Agr., Spec. Pub. 34, 44 (1923).
Bomberger Seed Co., Modesto, Cal. Nico Dust.....	.....	1.04	.....	.....	Cal. Dept. Agr., Spec. Pub. 34, 42 (1923).
Melvin W. Buster, Santa Rosa, Cal. Tobacco Dust.....	.....	2.36	.....	.....	Cal. Dept. Agr., Spec. Pub. 34, 50 (1923).
California Associated Raisin Co., Fresno, Cal. Double Nico-Dust	.....	1.40	.....	.....	Cal. Dept. Agr., Spec. Pub. 34, 44 (1923).
California Associated Raisin Co., Fresno, Cal. Nico-Dust.....	.....	1.62	.....	.....	Cal. Dept. Agr., Spec. Pub. 34, 42 (1923).
California Pest Control Co. Calpest Garden Dust.....	3.00	3.74	.....	.....	Cal. Dept. Agr., Spec. Pub. 75, 36 (1927).
California Spray Chemical Co., Watsonville, Cal. Ortho Nico- tine Dust 8 Special.....	2.88	3.20	.....	.....	Cal. Dept. Agr., Spec. Pub. 101, 31 (1930).
California Spray Chemical Co., Watsonville, Cal. Ortho Nico- tine Dust No. 10.....	3.60	4.09	.....	.....	Cal. Dept. Agr., Spec. Pub. 101, 31 (1930).
California Spray Chemical Co., Watsonville, Cal. Ortho Nico- tine Dust 6 Special.....	2.00	2.64	.....	.....	Cal. Dept. Agr., Spec. Pub. 101, 31 (1930).
California Sprayer Co. Calispray Dust No. 12.....	1.70	1.70	.....	.....	Cal. Dept. Agr., Spec. Pub. 75, 36 (1927).
California Sprayer Co. Calispray Insecticide Dust No. 11.....	0.50	1.22	90.00	66.00	Cal. Dept. Agr., Spec. Pub. 66, 25 (1926).
California Sprayer Co. Calispray No. 15—7½% Dust.....	2.70	2.80	.....	.....	Cal. Dept. Agr., Spec. Pub. 101, 31 (1930).
California Sprayer Co. Calispray No. 16—10% Dust.....	3.70	3.88	.....	.....	Cal. Dept. Agr., Spec. Pub. 101, 31 (1930).
C. D. Carpenter, Berkeley, Cal. Tobacco Dust.....	.....	2.36	.....	.....	Cal. Dept. Agr., Spec. Pub. 34, 50 (1923).
Lewis Cheeseman, Hatfield, Mass. Tobacco Dust <sup>1</sup> .....	.....	1.72	.....	.....	Conn. Agr. Expt. Sta., Bul. 242, 155 (1922).

<sup>1</sup> Footnotes at the end of table.

Corona Chemical Co., Newark, N. J. Tobacco Dust.....	0.50	0.82	....	....	Cal. Dept. Agr., Spec. Pub. 34, 50 (1923).
H. P. Cox, San Francisco, Cal. Tobacco Dust.....	....	1.50	....	....	Cal. Dept. Agr., Spec. Pub. 34, 50 (1923).
Dosch Chemical Co., Louisville, Ky. Dosch No. 6.....	2.20	2.60	....	....	Cal. Dept. Agr., Spec. Pub. 34, 43 (1923).
Dosch Chemical Co., Louisville, Ky. Dosch No. 10 Nico-Dust..	3.80	3.27	....	....	Cal. Dept. Agr., Spec. Pub. 34, 42 (1923).
Dosch Chemical Co., Louisville, Ky. Dosch Tobacco Dust....	1.20	0.40	....	....	Cal. Dept. Agr., Spec. Pub. 34, 50 (1923).
Durbocide Chemical & Machine Corp., Portland, Oreg. Ammo- Nico Dust.....	2.40	1.50	....	....	Oreg. Agr. Expt. Sta., Cir. 95, 13 (1929).
F. & I. Tobacco Products Co., Lancaster, Pa. Tobacco Dust...	1.00	0.93	....	....	N. J. Agr. Expt. Sta., Bul. 407, 11 (1924).
Golden Gate Mills, San Francisco, Cal. Impco Poultry Tobacco Dust Worm Cure.....	0.50	0.73	....	....	Cal. Dept. Agr., Spec. Pub. 51, 49 (1925).
Hall Chemical Co., St. Louis, Mo. Tobacco Dust.....	....	1.30	....	....	Conn. Agr. Expt. Sta., Bul. 242, 155 (1922).
Hall Tobacco Chemical Co., New York, N. Y. Fumigator.....	12.50	9.80	....	....	Oreg. Agr. Expt. Sta., Cir. 64, 11 (1925).
Heightstown Hardware Co., Heightstown, N. J. Axfixo <sup>2</sup> .....	1.25	1.47	....	....	Conn. Agr. Expt. Sta., Bul. 258, 371 (1924).
Insecticide Supply Co., Los Angeles, Cal. Dustall No. 3.....	0.90	1.33	....	....	Cal. Dept. Agr., Spec. Pub. 75, 36 (1927).
Insecticide Supply Co., Los Angeles, Cal. Dustall No. 4.....	1.00	1.41	....	....	Cal. Dept. Agr., Spec. Pub. 101, 31 (1930).
Insecticide Supply Co., Los Angeles, Cal. Dustall No. 6.....	2.00	2.30	....	....	Cal. Dept. Agr., Spec. Pub. 75, 36 (1927).
Insecticide Supply Co., Los Angeles, Cal. Dustall No. 8.....	2.75	3.48	....	....	Cal. Dept. Agr., Spec. Pub. 75, 36 (1927).
Insecticide Supply Co., Los Angeles, Cal. Dustall No. 10.....	3.50	3.58	....	....	Cal. Dept. Agr., Spec. Pub. 75, 36 (1927).
International Milling Co., San Francisco, Cal. Impco Extra Strong Insecticide Dust.....	2.50	1.89	79.00	59.00	Cal. Dept. Agr., Spec. Pub. 58, 36 (1925).
International Milling Co., San Francisco, Cal. Impco Insecticide Dust.....	2.00	1.95	86.00	64.00	Cal. Dept. Agr., Spec. Pub. 58, 36 (1925).
International Milling Co., San Francisco, Cal. Impco Strong Insecticide Dust.....	1.20	1.06	86.00	58.00	Cal. Dept. Agr., Spec. Pub. 58, 36 (1925).
International Milling Co., San Francisco, Cal. Tobacco Dust...	....	1.75	....	....	Cal. Dept. Agr., Spec. Pub. 34, 50 (1923).
Interstate Chemical Mfg. Co., Jersey City, N. J. Key Brand Nicotine Contact Dust.....	2.00	1.94	....	....	N. J. Agr. Expt. Sta., Bul. 594, 7 (1935).
R. J. Irwin, Inc., New York, N. Y. No. 2 Tobacco Dust.....	0.50	0.98	....	....	N. J. Agr. Expt. Sta., Bul. 441, 9 (1926).
E. M. Ives, Meriden, Conn. Tobacco Dust.....	....	0.71	96.00	....	Conn. Agr. Expt. Sta., Bul. 272, 148 (1925).
M. E. Jaffa, University of California, Berkeley, Cal. Tobacco Dust.....	....	1.09	....	....	Cal. Dept. Agr., Spec. Pub. 34, 50 (1923).
Kentucky Tobacco Produce Co. Tobacco Dust.....	....	0.16	....	....	Cal. Dept. Agr., Spec. Pub. 34, 50 (1923).
Harry N. Leckenby, Seattle, Wash. Aphis Dust-A.....	3.00	2.80	....	....	Oreg. Agr. Expt. Sta., Cir. 106, 15 (1931).
Los Angeles Insecticide Co., Los Angeles, Cal. Los Angeles Dust No. 8.....	3.00	2.93	....	....	Cal. Dept. Agr., Spec. Pub. 101, 31 (1930).

TABLE XVII NICOTINE DUSTS—Continued

Man fa turer or Di t ibutor and Brand	nicoti e		Fineness		Publication
	Guaranteed	Found	Guaranteed	Found	
Manufacturer unknown	....	2.81	....	....	Conn. Agr. Expt. Sta., Bul. 300, 295 (1929).
Manufacturer unknown. Nicotine Sulphate Dust	....	3.25	....	....	Conn. Agr. Expt. Sta., Bul. 300, 295 (1929).
Montgomery, Ward & Co., Portland, Oreg. Tobacco Dust	1.50	1.32	....	....	Oreg. Agr. Expt. Sta., Cir. 84, 11 (1927).
Chas. W. Muller. Muller's Grand Tobacco	1.00	1.08	....	....	Cal. Dept. Agr., Spec. Pub. 75, 34 (1927).
Chas. C. Navlet Co., San José, Cal.	2.00	3.91	....	....	Cal. Dept. Agr., Spec. Pub. 75, 36 (1927).
New York Insecticide Co., Inc., Medina, N. Y. Old 23 Nicotine Carrier Dust	3.00	3.01	....	....	N. J. Agr. Expt. Sta., Bul. 548, 7 (1932).
New York Tobacco Products, New York, N. Y. Tobacco Dust	1.50	1.30	....	....	N. J. Agr. Expt. Sta., Bul. 556, 8 (1933).
Niagara Sprayer & Chemical Co., Middleport, N. Y. Niagara A-1 Dust Mixture	....	3.01	....	....	Cal. Dept. Agr., Spec. Pub. 75, 36 (1927).
Niagara Sprayer & Chemical Co., Middleport, N. Y. Niagara Dust Mixture No. 3 with Nicotine	1.00	1.13	....	....	Cal. Dept. Agr., Spec. Pub. 75, 36 (1927).
Niagara Sprayer & Chemical Co., Middleport, N. Y. Niagara Dust Mixture with Nicotine No. 10	3.25	3.82	....	....	Cal. Dept. Agr., Spec. Pub. 101, 31 (1930).
Niagara Sprayer & Chemical Co., Middleport, N. Y. Niagara Mixture S 303	1.00	1.35	93.00	82.00	Cal. Dept. Agr., Spec. Pub. 66, 25 (1926).
Niagara Sprayer & Chemical Co., Middleport, N. Y. Niagara New Nicotine Contact Mixture D-1	1.25	1.43	....	....	Conn. Agr. Expt. Sta., Bul. 258, 371 (1924).
Niagara Sprayer & Chemical Co., Middleport, N. Y. Niagara New Nicotine Contact Mixture D-11	1.25	1.49	....	....	Cal. Dept. Agr., Spec. Pub. 58, 36 (1925).
Niagara Sprayer & Chemical Co., Middleport, N. Y. Niagara Nicotine Contact Mixture	2.20	2.38	....	....	Conn. Agr. Expt. Sta., Bul. 242, 155 (1922).
Niagara Sprayer & Chemical Co., Middleport, N. Y. Niagara No. 4 Nicotine-Lime Dust	1.90	1.95	....	....	Cal. Dept. Agr., Spec. Pub. 34, 43 (1923).

Niagara Sprayer & Chemical Co., Middleport, N. Y. Niagara No. 6 Dust Mixture with Nicotine.....	2.00	2.38	90.00	80.00	Cal. Dept. Agr. Spec. Pub. 58, 36 (1925).
Niagara Sprayer & Chemical Co., Middleport, N. Y. Nicotine-Lime Dust.....	....	1.50	....	....	Cal. Dept. Agr., Spec. Pub. 34, 43 (1923).
Niagara Sprayer & Chemical Co., Middleport, N. Y. No. 2 Niagara A-1 Dust.....	2.70	2.92	....	....	Cal. Dept. Agr., Spec. Pub. 75, 36 (1927).
Niagara Sprayer & Chemical Co., Middleport, N. Y. No. 5.....	1.75	1.76	....	....	Cal. Dept. Agr., Spec. Pub. 51, 48 (1925).
Nico-Dust Mfg. Co., Los Angeles, Cal. Nico-Dust No. 3.....	0.095	0.99	....	....	Cal. Dept. Agr., Spec. Pub. 75, 36 (1927).
Nico-Dust Mfg. Co., Los Angeles, Cal. Nico-Dust No. 6.....	2.00	2.21	....	....	Cal. Dept. Agr., Spec. Pub. 75, 36 (1927).
Nico-Dust Mfg. Co., Los Angeles, Cal. Nico-Dust No. 8.....	2.75	3.84	....	....	Cal. Dept. Agr., Spec. Pub. 75, 36 (1927).
Nico-Dust Mfg. Co., Los Angeles, Cal. Nico-Dust No. 10.....	3.50	4.62	....	....	Cal. Dept. Agr., Spec. Pub. 75, 36 (1927).
E. J. Reilly, San Francisco, Cal. Tobacco Dust.....	....	0.60	....	....	Cal. Dept. Agr., Spec. Pub. 34, 50 (1923).
San José Spray Mfg. Co., San José, Cal. S. J.....	1.75	1.82	99.00	86.00	Cal. Dept. Agr., Spec. Pub. 58, 36 (1925).
Sherwin-Williams Co., Cleveland, O. Sherwin-Williams Nicotine Dust <sup>3</sup> .....	....	....	....	....	Maine Agr. Expt. Sta., Official Inspections 146, 138 (1932).
C. Spezzano, Northford, Conn. 2%.....	....	2.63	....	....	Conn. Agr. Expt. Sta., Sample 1590.
Tobacco By-Products & Chemical Corp., Louisville, Ky. Black Leaf F 2.....	2.00	0.84	....	....	N. J. Agr. Expt. Sta., Bul. 441, 9 (1926).
Tobacco By-Products & Chemical Corp., Louisville, Ky. Gold Leaf Tobacco Powder.....	1.00	1.59	....	....	Cal. Dept. Agr., Spec. Pub. 101, 31 (1930).
Tobacco By-Products & Chemical Corp., Louisville, Ky. Nico Fume Tobacco Powder.....	12.50	12.71	....	....	Conn. Agr. Expt. Sta., Bul. 272, 147 (1925).
Uniform Products Co., Lancaster, Pa. Green Life.....	1.00	0.12	....	....	N. J. Agr. Expt. Sta., Bul. 485, 7 (1929).
Uniform Products Co., Inc., New York, N. Y. Fumetobac.....	2.00	2.00	....	....	N. J. Agr. Expt. Sta., Bul. 513, 6 (1930).
Uniform Products Co., Inc., New York, N. Y. Plantobac.....	1.00	0.60	....	....	N. J. Agr. Expt. Sta., Bul. 513, 6 (1930).
Uniform Products Co., Inc., New York, N. Y. Poultozac.....	1.00	1.64	....	....	N. J. Agr. Expt. Sta., Bul. 513, 6 (1930).
Uniform Products Co., San Francisco, Cal. Tobacco Dust.....	0.50	1.07	....	....	Cal. Dept. Agr., Spec. Pub. 101, 32 (1930).
L. D. Waller Seed Co., Guadalupe, Cal. Nico-Dust.....	....	3.20	....	....	Cal. Dept. Agr., Spec. Pub. 34, 42 (1923).
Walnut Growers' Association. Double Nico-Dust.....	2.36	2.41	....	....	Cal. Dept. Agr., Spec. Pub. 34, 44 (1923).
Walnut Growers' Spray Mfg. Co., Los Angeles, Cal. Nico-Dust No. 2.....	0.75	0.96	....	....	Cal. Dept. Agr., Spec. Pub. 51, 48 (1925).
Walnut Growers' Spray Mfg. Co., Los Angeles, Cal. Nico-Dust No. 5.....	1.50	1.60	....	....	Cal. Dept. Agr., Spec. Pub. 75, 36 (1927).
Walnut Growers' Spray Mfg. Co., Los Angeles, Cal.....	0.56	0.45	....	....	Cal. Dept. Agr., Spec. Pub. 34, 42 (1923).
Western Wholesale Drug Co. Nico Dust No. 7.....	2.50	2.36	....	....	Cal. Dept. Agr., Spec. Pub. 101, 32 (1930).
Western Wholesale Drug Co. Nico Dust No. 9.....	....	4.38	....	....	Cal. Dept. Agr., Spec. Pub. 101, 32 (1930).

<sup>1</sup> Total ash 39.60 percent; acid-insoluble ash 15.30 percent; total nitrogen 1.99 percent.

<sup>2</sup> Total ash 96.50 percent; insoluble ash 1.28 percent; calcium oxide 31.85 percent; magnesium oxide 23.57 percent.

<sup>3</sup> Nicotine sulphate guaranteed 3.2 percent; found 4.22 percent.

TABLE XVIII. NICOTINE SOAPS

Manufacturer or Distributor and Brand	Nicotine		Soap		Water Found	Publication
	Guaranteed	Found	Guaranteed	Found		
Alhambra Spray Co., Alhambra, Cal. Alhambra Nico-Soap..	....	1.68	....	16.90	....	Cal. Dept. Agr., Spec. Pub. 51, 49 (1925).
An-Fo Mfg. Co., Los Angeles, Cal. An-Fo Nicotine Spray <sup>1</sup> ..	0.80	0.95	12.50	9.80	83.40	Cal. Dept. Agr., Spec. Pub. 75, 39 (1927).
An-Fo Mfg. Co., Los Angeles, Cal. An-Fo Nicotine Spray <sup>1</sup> ..	1.00	1.10	12.50	16.40	77.80	Cal. Dept. Agr., Spec. Pub. 75, 39 (1927).
California Rex Spray Co., Benicia, Cal. Afi-Tox.....	4.00	10.00	4.40	14.90	....	Oreg. Agr. Expt. Sta., Cir. 95, 12 (1929).
The Charles H. Lilly Co., Seattle, Wash. Tobacco Soap....	2.00	2.10	6.00	6.30	....	Oreg. Agr. Expt. Sta., Cir. 84, 10 (1927).
Manufacturer Unknown. Sulfo-Tobacco Plant and Animal Soap.....	....	0.40	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 47 (1923).
Michel & Pelton, Emeryville, Cal. Nicotine Spray.....	1.00	20.00	0.90	23.80	....	Oreg. Agr. Expt. Sta., Cir. 95, 12 (1929).
Chas. C. Navlet Co., San José, Cal. Nico Whale Oil Soap....	....	None	....	20.60	....	Cal. Dept. Agr., Spec. Pub. 34, 47 (1923).

<sup>1</sup> Pine oil guaranteed 1.50 percent.

TABLE XIX. NICOTINE SULPHATE SOLUTION

Manufacturer or Distributor and Brand	Nicotine		Publication
	Guaranteed	Found	
Acme White Lead & Color Works, Detroit, Mich. Acme . . . . .	40.00	41.10	Oreg. Agr. Expt. Sta., Cir. 106, 14 (1931).
Bowker Chemical Co., New York, N. Y. Bowker's 40% . . . . .	40.00	41.10	N. J. Agr. Expt. Sta., Bul. 556, 8 (1933).
Chipman Chemical Co., Inc., Bound Brook, N. J. Chipman Brand Liquid . . . . .	40.00	10.77	Conn. Agr. Expt. Sta., Sample 2884.
General Chemical Co., New York, N. Y. Orchard Brand . . . . .	40.00	40.97	N. J. Agr. Expt. Sta., Bul. 577, 7 (1934).
Germain Seed & Plant Co., Los Angeles, Cal. Floral Nicotine . . .	10.00	11.14	Cal. Dept. Agr., Spec. Pub. 34, 52 (1923).
Goulard & Olena, Inc., New York, N. Y. G. & O. 40% . . . . .	40.00	41.10	N. J. Agr. Expt. Sta., Bul. 594, 7 (1935).
Hall Tobacco Chemical Co., St. Louis, Mo. Hall's . . . . .	40.00	50.61	Conn. Agr. Expt. Sta., Bul. 272, 147 (1925).
The Dwight R. Judson Co., Hartford, Conn. Judson's 40% . . . . .	40.00	39.72	Conn. Agr. Expt. Sta., Sample 5861.
Kentucky Tobacco Products Co., Louisville, Ky. Black Leaf 40 . .	40.00	41.95	Cal. Dept. Agr., Spec. Pub. 34, 52 (1923).
Manufacturer unknown. Black Leaf 50 . . . . .	....	50.70	Conn. Agr. Expt. Sta., Sample 5882.
Irwin L. Mills, Collinsville, Conn. . . . .	....	0.48	Conn. Agr. Expt. Sta., Sample 1983.
Montgomery, Ward & Co., Portland, Oreg. Wardgrade Nicotine . .	40.00	40.20	Oreg. Agr. Expt. Sta., Cir. 95, 12 (1929).
Nicotine Mfg. Co., St. Louis, Mo. 30% Nikoteen . . . . .	30.00	30.77	N. J. Agr. Expt. Sta., Bul. 441, 9 (1926).
Nicotine Production Corp., Inc., Clarksville, Tenn. Gard-N-Spray	40.00	42.65	Maine Agr. Expt. Sta., Official Inspections 142, 119 (1931).
Nicotine Production Corp., Inc., Clarksville, Tenn. N. P. C. . . . .	40.00	40.64	Cal. Dept. Agr., Spec. Pub. 75, 34 (1927).
Purity Chemical Products Co., Santa Rosa, Cal. Nicota <sup>1</sup> . . . . .	2.00	2.33	Cal. Dept. Agr., Spec. Pub. 75, 34 (1927).
Tobacco By-Products & Chemical Corp., Inc., Louisville, Ky. Black Leaf 40 . . . . .	40.00	40.26	Conn. Agr. Expt. Sta., Sample 1236.
Tobacco By-Products & Chemical Corp., Inc., Louisville, Ky.			
Nico Fume (Liquid) . . . . .	40.00	42.90	Conn. Agr. Expt. Sta., Bul. 272, 147 (1925).
Weststone Shade Tobacco Corp., Hartford, Conn. . . . .	....	40.86	Conn. Agr. Expt. Sta., Sample 9139.

<sup>1</sup> Water guaranteed 85.00 percent; found 96.10 percent.

TABLE XX. NICOTINE-SULPHUR DUSTS

Manufacturer or Distributor and Brand	Nicotine		Free Sulphur		Combined sulphur, Found	Inert matter, Guaranteed	Fineness, finer than		Publication
	Guaranteed	Found	Guaranteed	Found			100 M	200 Mesh	
	%	%	%	%	%	%	%	%	
American Milling & Warehouse Co. (defunct) Impco. ....	0.29	....	49.98	....	....	....	78.00	52.00	Cal. Dept. Agr., Spec. Pub. 66, 24 (1926).
Bomberger Seed Co., Modesto, Cal., .....	0.96	....	39.39	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 45 (1923).
California Associated Raisin Co., Fresno, Cal., ..	0.88	....	52.44	0.31	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 45 (1923).
The California Sprayer Co., Calispray Dust No. 1	1.70	1.30	72.00	73.85	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 37 (1927).
The California Sprayer Co. Calispray Dust No. 2	2.70	2.43	70.00	67.10	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 37 (1927).
The California Sprayer Co. Calispray Combined Insecticide and Fungicide Dust No. 3. ....	3.30	3.50	68.00	64.60	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 37 (1927).
The California Sprayer Co. Calispray No. 3— 10% Dust. ....	3.70	2.03	60.00	64.07	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 37 (1930).
The Calispray Sprayer Co <sup>2</sup> , .....	1.60	1.87	71.00	66.55	....	3.40	....	....	Cal. Dept. Agr., Spec. Pub. 34, 46 (1923).
Dosch Chemical Co., Louisville, Ky. Dosch....	1.80	1.81	58.00	60.16	....	40.20	....	....	Cal. Dept. Agr., Spec. Pub. 34, 46 (1923).
Dosch Chemical Co., Louisville, Ky. Dosch....	2.00	4.03	....	54.58	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 46 (1923).
Dosch Chemical Co., Louisville, Ky. Dosch....	2.00	1.55	59.00	58.00	....	39.00	....	....	Cal. Dept. Agr., Spec. Pub. 34, 46 (1923).

<sup>1</sup> Footnotes at the end of table.

F. A. Frazier Co. Frazier's 5X <sup>3</sup> .....	1.50	1.52	40.00	35.70	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 37 (1927).
L. O. Haupt, Hanford, Cal <sup>1</sup> .....	....	0.97	....	68.10	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 45 (1923).
Hood River Spray Co., Hood River, Oreg. N. S. P. Dust.....	....	1.89	....	64.00	....	....	....	....	Oreg. Agr. Expt. Sta., Cir. 84, 11 (1927).
C. C. Morse & Co., San Francisco, Cal.....	....	1.31	....	65.65	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 46 (1922).
Niagara Sprayer Co., Middleport, N. Y. Niagara Dust Mixture with Sulphur and Nicotine No. 5	1.75	2.46	48.00	49.42	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 37 (1927).
Niagara Sprayer & Chemical Co., Middleport, N. Y. Niagara No. 7 Dust with Sulfur and Nicotine.....	2.25	3.40	40.00	36.10	....	....	....	....	Oreg. Agr. Expt. Sta., Cir. 106, 15 (1931).
Niagara Sprayer Co., Middleport, N. Y. Niagara Special Mixture 154A.....	1.75	2.32	58.00	62.02	....	....	95.00	73.00	Cal. Dept. Agr., Spec. Pub. 66, 24 (1926).
Niagara Sprayer Co., Middleport, N. Y. Niagara Special Mixture S155A.....	2.25	3.25	38.00	41.03	....	....	92.00	72.00	Cal. Dept. Agr., Spec. Pub. 66, 24 (1926).
Niagara Sprayer Co., Middleport, N. Y. Niagara Sulphur with 7% Nicotine Solution <sup>1</sup> .....	2.55	2.59	66.00	68.57	1.40	....	....	....	Cal. Dept. Agr., Spec. Pub. 51, 49 (1925).
Niagara Sprayer Co., Middleport, N. Y. Niagara Sulphur with 10% Nicotine Solution <sup>1</sup> .....	3.75	3.27	63.00	64.13	2.14	....	....	....	Cal. Dept. Agr., Spec. Pub. 51, 49 (1925).
Niagara Sprayer Co., Middleport, N. Y. No. 10 <sup>1</sup>	3.25	4.22	58.00	56.29	5.74	39.75	....	....	Cal. Dept. Agr., Spec. Pub. 51, 49 (1925).
San Francisco Sulfur Co., San Francisco, Cal....	....	0.26	....	46.17	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 45 (1923).
San José Spray Mfg. Co., San José, Cal.....	3.50	2.51	50.00	45.15	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 37 (1927).
Standard Chemical Co., Oakland, Cal. Sulfur-Nicotine Compound <sup>1</sup> .....	1.20	1.24	43.00	47.00	....	49.80	....	....	Cal. Dept. Agr., Spec. Pub. 34, 48 (1923).
L. D. Waller Seed Co., Guadalupe, Cal.....	2.84	1.45	13.10	66.09	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 46 (1923).
Walnut Growers' Association <sup>1</sup> .....	0.96	1.01	50.00	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 45 (1923).
Walnut Growers' Spray Mfg. Co., Los Angeles, Cal. Nico Garden Dust.....	2.00	1.86	45.00	30.16	....	....	95.00	75.00	Cal. Dept. Agr., Spec. Pub. 66, 24 (1926).

Nicotine-Sulphur Dust



TABLE XX. NICOTINE-SULPHUR DUSTS, *Continued*

Manufacturer or Distributor and Brand	Nicotine		Free Sulphur		Combined sulphur, Found	Inert matter, Guaranteed	Fineness, finer than		Publication
	Guaranteed	Found	Guaranteed	Found			100 Mesh	200 Mesh	
Walnut Growers' Spray Mfg. Co., Los Angeles, Cal. Nico-Sulphur Dust No. 5	1.75	1.83	45.00	46.36	....	....	90.00	72.00	Cal. Dept. Agr., Spec. Pub. 58, 35 (1925).
Walnut Growers' Spray Mfg. Co., Los Angeles, Cal. Nico-Sulphur Dust No. 6	2.00	2.20	40.00	32.78	....	....	90.50	60.50	Cal. Dept. Agr., Spec. Pub. 66, 24 (1926).
Walnut Growers' Spray Mfg. Co., Los Angeles, Cal. Nico-Sulphur Dust No. 8	2.75	2.99	40.00	37.18	....	....	86.00	45.00	Cal. Dept. Agr., Spec. Pub. 66, 24 (1926).
Walnut Growers' Spray Mfg. Co., Los Angeles, Cal. <sup>1</sup>	3.70	2.78	48.10	49.99	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 45 (1923).
Walnut Growers' Spray Mfg. Co., Los Angeles, Cal. <sup>1</sup>	1.50	1.16	60.00	50.33	....	38.50	....	....	Cal. Dept. Agr., Spec. Pub. 34, 45 (1923).
Walnut Growers' Spray Mfg. Co., Los Angeles, Cal. <sup>1</sup>	1.96	1.80	50.00	50.26	....	44.00	....	....	Cal. Dept. Agr., Spec. Pub. 34, 45 (1923).
Walnut Growers' Spray Mfg. Co., Los Angeles, Cal. <sup>1</sup>	0.96	1.03	50.00	44.92	....	47.00	....	....	Cal. Dept. Agr., Spec. Pub. 34, 45 (1923).
Walnut Growers' Spray Mfg. Co., Los Angeles, Cal. <sup>1</sup>	2.36	1.01	25.00	28.71	0.52	69.00	....	....	Cal. Dept. Agr., Spec. Pub. 34, 45 (1923).

<sup>1</sup> Lime carrier<sup>2</sup> Calcium hydroxide guaranteed 24.00 percent.<sup>3</sup> Sulphur classed as inert matter on label.<sup>4</sup> Soap guaranteed 6.00 percent; found 4.60 percent.

TABLE XXI. OIL EMULSIONS, MINERAL

Manufacturer or Distributor and Brand	Oil		Phenols—Found	Soap—Found	Water		Ash other than Soap Ash—Found	Constants of Separated Oil			Publication
	Guaranteed	Found			Guaranteed	Found		Baumé Gravity, degrees	Saybolt Viscosity, 100° F., seconds	Unsulpho-nated	
J. Willis Adriance, Stockton, Cal. Germo..	%	%	%	%	%	%	%				Cal. Dept. Agr., Spec. Pub. 34, 39 (1923).
Alhambra Spray Co. Alhambra Spray <sup>1</sup> ...	....	94.00	5.90	....	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 36 (1923).
American Soap Co., Oakland, Cal. American Jazz Spray <sup>2</sup> .....	....	60.40	10.20	4.90	....	....	1.31	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 37 (1923).
Anaheim Spray Chemical Co., Anaheim, Cal. Blue Ribbon Orchard Spray.....	70.00	66.00	....	4.05	....	....	....	28.00	....	....	Cal. Dept. Agr., Spec. Pub. 75, 51 (1927).
Anaheim Spray Chemical Co., Anaheim, Cal. Blue Ribbon Orchard Spray No. 2..	....	79.50 <sup>3</sup>	....	4.00	20.00	16.20	....	33.05	53.00	86.0	Cal. Dept. Agr., Spec. Pub. 101, 46 (1930).
Anaheim Spray Chemical Co., Upland, Cal. Blue Ribbon Orchard Spray No. 4.....	....	77.33	....	2.54	....	18.90	....	31.37	71.0	95.0	Cal. Dept. Agr., Spec. Pub. 101, 46 (1930).
Anaheim Spray Chemical Co., Upland, Cal. Blue Ribbon Special Orchard Spray.....	....	80.30	....	2.10	....	17.50	....	29.50	70.0	90.8	Cal. Dept. Agr., Spec. Pub. 101, 46 (1930).
Anaheim Spray Chemical Co., Anaheim, Cal. E. M. F. Orchard Spray.....	....	78.65	....	2.25	....	18.20	....	30.60	61.5	90.7	Cal. Dept. Agr., Spec. Pub. 66, 32 (1926).
Apothecaries Hall Co., Waterbury, Conn. Victor Soluble Oil <sup>4</sup> .....	....	68.15	....	6.20	....	24.70	....	37.10	....	66.75	Conn. Agr. Expt. Sta., Bul. 346, 242 (1933).
Apothecaries Hall Co., Waterbury, Conn. Victor Soluble Oil (Jarvis Formula)—1930 Stock <sup>5</sup> .....	....	81.70	....	....	....	....	....	31.80	93.5	50.6	Conn. Agr. Expt. Sta., Bul. 346, 242 (1933).
Associated Oil Co. Avon Spray Emulsion..	84.00	75.3	....	7.89	....	....	0.09	35.3	115.6	60.2	Cal. Dept. Agr., Spec. Pub. 101, 50 (1930).
		84.50	....	....	....	14.60	....	21.28	109.0	70.7	

<sup>1</sup> Footnotes at the end of table.

TABLE XXI. OIL EMULSIONS, MINERAL—Continued

Manufacturer or Distributor and Brand	Oil		Phenols—Found	Soap—Found	Water		Ash other than Soap Ash—Found	Constants of Separated Oil			Publication
	Guaranteed	Found			Guaranteed	Found		Baumé Gravity, degrees	Saybolt Vis. consty, 100° F., seconds	Unsulpho-nated	
	%	%	%	%	%	%	%			%	
Associated Oil Co. Avon Spray Emulsion B	....	85.50	....	....	....	14.50	....	19.70	111.0	64.0	Cal. Dept. Agr., Spec. Pub. 101, 50 (1930).
Associated Oil Co., San José, Cal. Petrotine	83.00	86.30	....	....	....	12.60	....	29.80	....	87.6	Cal. Dept. Agr., Spec. Pub. 75, 48 (1927).
Associated Oil Co. Petrotine Emulsion C-2	....	84.95	....	....	....	14.65	....	27.95	75.0	89.9	Cal. Dept. Agr., Spec. Pub. 101, 50 (1930).
Associated Oil Co. Petrotine Emulsion 60	83.00	85.13	....	....	....	14.27	....	27.80	58.3	87.6	Cal. Dept. Agr., Spec. Pub. 101, 50 (1930).
Associated Oil Co. Petrotine Emulsion 70	....	85.08	....	....	....	14.83	....	27.25	71.8	87.4	Cal. Dept. Agr., Spec. Pub. 101, 50 (1930).
Associated Oil Co. Petrotine Emulsion 95	....	84.80	....	....	....	14.80	....	28.80	95.0	90.0	Cal. Dept. Agr., Spec. Pub. 101, 50 (1930).
Balfour, Guthrie & Co., San Francisco, Cal. Medol A. ....	80.00	82.70	....	....	....	....	....	....	....	....	Oreg. Agr. Expt. Sta., Cir. 106, 20 (1931).
Balfour, Guthrie & Co., San Francisco, Cal. Medol I. ....	80.00	79.50	....	....	....	....	....	....	....	....	Oreg. Agr. Expt. Sta., Cir. 106, 20 (1931).
Balfour, Guthrie & Co., San Francisco, Cal. Orchard Dormant Soluble Oil. ....	....	81.95	3.68 <sup>5</sup>	5.23	13.00	8.00	0.81	20.80	....	52.0	Cal. Dept. Agr., Spec. Pub. 51, 37 (1925).
Balfour, Guthrie & Co., San Francisco, Cal. Soluble Oil Spray <sup>7</sup> . ....	87.00	86.37	2.80	4.03	....	....	1.57	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 36 (1923).
Balfour, Guthrie & Co., Los Angeles, Cal. Universal Brand Neutral Emulsion. ....	70.00	71.20	....	....	....	26.60	....	22.50	....	58.8	Cal. Dept. Agr., Spec. Pub. 75, 48 (1927).
Balfour-Guthrie Co. Universal Brand Neutrol. ....	....	82.73	....	....	....	16.58	....	22.38	105.5	71.2	Cal. Dept. Agr., Spec. Pub. 101, 51 (1930).

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Balfour-Guthrie Co. Universal Brand Neutrol A.....	83.30				15.68		23.63	111.3	77.5	Cal. Dept. Agr., Spec. Pub. 101, 51 (1930).
Balfour-Guthrie Co. Universal Brand Niconas <sup>8</sup> .....	77.00	79.05			17.00		28.65	67.0	89.6	Cal. Dept. Agr., Spec. Pub. 101, 51 (1930).
Balfour, Guthrie & Co., Los Angeles, Cal. Universal Brand Triona.....	70.00	75.40			23.30		31.95	58.0	86.8	Cal. Dept. Agr., Spec. Pub. 75, 48 (1927).
Balfour, Guthrie & Co., Los Angeles, Cal. Universal Brand Triumph.....		86.60 <sup>8</sup>	4.40	3.90	13.00 <sup>3</sup>	5.00 <sup>3</sup>	28.40			Cal. Dept. Agr., Spec. Pub. 75, 53 (1927).
Balfour, Guthrie & Co., Los Angeles, Cal. Universal Brand Triumph.....	87.00 <sup>8</sup>	88.40 <sup>8</sup>	4.80	3.50		3.90 <sup>3</sup>	29.10			Cal. Dept. Agr., Spec. Pub. 75, 53 (1927).
Balfour-Guthrie Co. Universal Brand Viscona E Medium.....		84.40				14.10	31.90	76.0	94.4	Cal. Dept. Agr., Spec. Pub. 101, 51 (1930).
Balfour-Guthrie Co. Universal Brand Viscona Heavy.....	82.00	82.90				15.00	28.70	91.0	92.0	Cal. Dept. Agr., Spec. Pub. 101, 51 (1930).
Balfour-Guthrie Co. Universal Brand Viscona W Medium.....		86.10				12.80	28.60	75.0	91.2	Cal. Dept. Agr., Spec. Pub. 101, 51 (1930).
Balfour, Guthrie & Co., Los Angeles, Cal. Universal Dormant Soluble Oil.....		85.70 <sup>8</sup>	1.80	7.10	13.00 <sup>3</sup>	3.80 <sup>3</sup>	19.90			Cal. Dept. Agr., Spec. Pub. 75, 53 (1927).
Balfour, Guthrie & Co., San Francisco, Cal. Universal Mealy Bug Spray Oil.....		75.40	7.80	9.40	13.00	7.00	23.20		44.2	Cal. Dept. Agr., Spec. Pub. 66, 32 (1926).
Balfour, Guthrie & Co., Lindsay, Cal. Universal Medol Emulsion.....	70.00	66.40				30.20	28.20		52.7	Cal. Dept. Agr., Spec. Pub. 66, 30 (1926).
Balfour-Guthrie & Co. Universal Orchard Spray Dormant Soluble Oil.....		86.40	2.90	7.80		3.90		110.0	68.4	Cal. Dept. Agr., Spec. Pub. 101, 44 (1930).
Balfour-Guthrie & Co. Universal Orchard Spray Triumph.....		85.92	4.89	3.61	13.00	5.18		48.8	77.6	Cal. Dept. Agr., Spec. Pub. 101, 44 (1930).
Bean Spray Pump Co., San José, Cal. Bean's Bug-Go, Crude.....	75.00 <sup>8</sup>	77.05 <sup>8</sup>		1.39		21.60	22.55			Cal. Dept. Agr., Spec. Pub. 66, 32 (1926).
David Burke & Co. Beje Orchard Spray..		89.40		2.00	30.00	6.80	40.10		76.9	Cal. Dept. Agr., Spec. Pub. 66, 32 (1926).
David Burke & Co. Pacific Orchard Spray		77.40	5.80	4.90	25.00	11.40	39.10		70.6	Cal. Dept. Agr., Spec. Pub. 66, 32 (1926).
California Pest Control Co. Calpest Summer Spray.....	80.00 <sup>3</sup>	85.85 <sup>3</sup>				13.15	31.10			Cal. Dept. Agr., Spec. Pub. 75, 48 (1927).

TABLE XXI. OIL EMULSIONS, MINERAL—Continued

Manufacturer or Distributor and Brand	Oil		Phenols—Found	Soap—Found	Water		Ash other than Soap Ash—Found	Constants of Separated Oil			Publication
	Guaranteed	Found			Guaranteed	Found		Baumé Gravity, degrees	Saybolt Vis- cosity, 100° F., seconds	Unsaturo- nated	
	%	%	%	%	%	%	%			%	
California Rex Spray Co., Benicia, Cal. Rex Emulso. ....	75.00 <sup>3</sup>	75.70 <sup>3</sup>	....	1.40	....	22.40	....	24.20	....	19.4	Cal. Dept. Agr., Spec. Pub. 66, 33 (1926).
California Rex Spray Co., Benicia, Cal. Rex Miscible Oil, Heavy. ....	....	80.40 <sup>3</sup>	4.40	6.50	8.00 <sup>3</sup>	8.30 <sup>3</sup>	....	27.90	....	....	Cal. Dept. Agr., Spec. Pub. 75, 53 (1927).
California Rex Spray Co., Benicia, Cal. Rex Miscible Oil, Light. ....	....	80.30 <sup>3</sup>	3.70	6.20	8.00 <sup>3</sup>	9.40 <sup>3</sup>	....	29.20	....	....	Cal. Dept. Agr., Spec. Pub. 75, 53 (1927).
California Rex Spray Co. Rex Oil A. ....	83.00	84.53	....	....	....	14.70	....	22.47	126.7	74.8	Cal. Dept. Agr., Spec. Pub. 101, 51 (1930).
California Rex Spray Co. Rex Oil B. ....	75.00	81.20	....	....	....	18.13	....	21.43	111.0	70.5	Cal. Dept. Agr., Spec. Pub. 101, 51 (1930).
California Rex Spray Co. Rex Toxol. ....	83.00	84.25	....	....	....	15.10	....	22.50	111.5	71.6	Cal. Dept. Agr., Spec. Pub. 101, 52 (1930).
California Rex Spray Co., Benicia, Cal. Vulture Oil. ....	75.00 <sup>3</sup>	74.70 <sup>3</sup>	....	1.60 <sup>9</sup>	....	22.95 <sup>3</sup>	....	30.15	....	63.0	Cal. Dept. Agr., Spec. Pub. 75, 51 (1927).
California Spray Chemical Co. Del Monte Heavy. ....	....	92.10	....	....	....	7.95	....	36.05	71.0	98.5	Cal. Dept. Agr., Spec. Pub. 101, 53 (1930).
California Spray Chemical Co. Del Monte Light Medium. ....	83.00	87.03	....	....	....	12.20	....	30.17	68.3	89.9	Cal. Dept. Agr., Spec. Pub. 101, 53 (1930).
California Spray Chemical Co. Del Monte Medium. ....	....	91.40	....	....	....	8.03	....	33.45	65.8	94.7	Cal. Dept. Agr., Spec. Pub. 101, 53 (1930).
California Spray Chemical Co. Garden Volck <sup>10</sup> . ....	....	33.40	....	10.17	....	50.87	....	29.85	104.0	98.2	Cal. Dept. Agr., Spec. Pub. 101, 46 (1930).
California Spray Chemical Co., Watsonville, Cal. Kleenup Emulsion—March 13. ....	....	....	....	....	....	....	....	....	95.0	64.2	Conn. Agr. Expt. Sta., Bul. 346, 244 (1933).



California Spray Chemical Co., Watsonville, Cal. Kleenup Oil.....	77.10	.....	.....	.....	21.80	0.07	22.70	.....	45.50	Cal. Dept. Agr. Spec. Pub. 66, 30 (1926).	
California Spray Chemical Co. Orange-Ol.....	85.06	.....	.....	.....	14.02	.....	30.38	63.5	90.8	Cal. Dept. Agr., Spec. Pub. 101, 54 (1930).	
California Spray Chemical Co., Watsonville, Cal. Ortho-Apricot Oil.....	75.00	74.00	.....	.....	26.00	.....	29.10	.....	59.8	Cal. Dept. Agr., Spec. Pub. 66, 30 (1926).	
California Spray Chemical Co., Watsonville, Cal. Ortho-Crude Oil Emulsion.....	75.00 <sup>3</sup>	75.60 <sup>3</sup>	.....	.....	22.70	.....	22.10	.....	38.8	Cal. Dept. Agr., Spec. Pub. 75, 49 (1927).	
California Spray Chemical Co., Watsonville, Cal. Ortho-Kleenup Grade A <sup>11</sup> .....	.....	.....	.....	.....	.....	0.29	.....	102	53.2	Conn. Agr. Expt. Sta., Bul. 300, 312 (1929).	
California Spray Chemical Co., Watsonville, Cal. Ortho Kleenup Oil.....	.....	.....	.....	.....	.....	.....	.....	102	55.6	Conn. Agr. Expt. Sta., Bul. 300, 312 (1929).	
California Spray Chemical Co., Watsonville, Cal. Ortho-Kleenup Oil, Grade B.....	75.00 <sup>3</sup>	78.20 <sup>3</sup>	.....	.....	21.65	.....	21.85	.....	58.4	Cal. Dept. Agr., Spec. Pub. 75, 48 (1927).	
California Spray Chemical Co., Watsonville, Cal. Orthol.....	75.00 <sup>3</sup>	77.50 <sup>3</sup>	none	.....	21.80 <sup>3</sup>	0.13	40.60	.....	94.5	Cal. Dept. Agr., Spec. Pub. 58, 42 (1925).	
California Spray Chemical Co., Watsonville, Cal. Orthol Concentrate.....	80.00 <sup>3</sup>	79.60 <sup>3</sup>	.....	.....	18.70	.....	30.70	.....	86.8	Cal. Dept. Agr., Spec. Pub. 75, 49 (1927).	
California Spray Chemical Co., Watsonville, Cal. Orthol-K.....	.....	78.50	.....	.....	.....	.....	38.50	83.9	81.8	Conn. Agr. Expt. Sta., Sample 5883.	
California Spray Chemical Co., Watsonville, Cal. Orthol-K (Heavy).....	.....	.....	.....	.....	.....	.....	.....	111	80.8	Conn. Agr. Expt. Sta., Bul. 300, 312 (1929).	
California Spray Chemical Co. Orthol-K Light Medium.....	.....	84.35	.....	.....	15.50	.....	30.20	67.0	91.6	Cal. Dept. Agr., Spec. Pub. 101, 53 (1930).	
California Spray Chemical Co. Orthol K Medium.....	.....	84.92	.....	.....	14.32	.....	28.84	85.4	90.5	Cal. Dept. Agr., Spec. Pub. 101, 53 (1930).	
California Spray Chemical Co., New York, N. Y. Ortho Kleenup Oil Grade A <sup>12</sup> .....	81.00	81.90	.....	0.80	.....	0.09	26.90	110.6	56.0	Conn. Agr. Expt. Sta., Bul. 346, 245 (1933).	
California Spray Chemical Co. Ortho Kleenup W.....	83.00	83.50	.....	.....	16.10	.....	22.20	107.0	66.4	Cal. Dept. Agr., Spec. Pub. 101, 54 (1930).	
California Spray Chemical Co., Watsonville, Cal. Ortho Miscible Oil.....	85.00 <sup>3</sup>	87.25 <sup>3</sup>	2.72	6.14	.....	3.65	.....	21.55	50.9	Cal. Dept. Agr., Spec. Pub. 66, 33 (1926).	
California Spray Chemical Co., Watsonville, Cal. Ortho Orange Oil Emulsion <sup>13</sup> .....	.....	.....	.....	.....	25.00	24.70	0.48	40.30	.....	96.7	Cal. Dept. Agr., Spec. Pub. 51, 32 (1925).

TABLE XXI. OIL EMULSIONS, MINERAL—Continued

Manufacturer or Distributor and Brand	Oil		Phenols—Found	Soap—Found	Water		Ash other than Soap Ash—Found	Constants of Separated Oil			Publication
	Guaranteed	Found			Guaranteed	Found		Baumé Gravity, degrees	Saybolt Vis- cosity, 100° F., seconds	Unsulpho- nated	
	%	%	%	%	%	%	%			%	
California Spray Chemical Co., Watsonville, Cal. Ortho Orange Oil Emulsion, . . . . .	75.00	80.30	1.00	0.80	25.00	18.20	0.51	40.80	105.0	95.9	Cal. Dept. Agr., Spec. Pub. 51, 32 (1925).
California Spray Chemical Co., Watsonville, Cal. Ortho Penetrating Oil Spray, . . . . .	75.00 <sup>3</sup>	72.50 <sup>3</sup>	1.90	none	25.10	25.10	0.51	25.40	105.0	53.8	Cal. Dept. Agr., Spec. Pub. 58, 44 (1925).
California Spray Chemical Co., Watsonville, Cal. Volck <sup>14</sup> , . . . . .	80.00	81.10	1.00	0.80	16.28	16.28	0.39	38.70	105.0	92.4	Conn. Agr. Expt. Sta., Bul. 346, 245 (1933).
California Spray Chemical Co., Watsonville, Cal. Volck Concentrate, . . . . .	83.00	83.55	1.00	0.80	16.28	16.28	0.02	38.70	105.0	92.4	Conn. Agr. Expt. Sta., Bul. 300, 313 (1929).
California Spray Chemical Co., Watsonville, Cal. Volck Emulsion, . . . . .	83.00	83.55	1.00	0.80	16.28	16.28	0.02	38.70	105.0	92.4	Conn. Agr. Expt. Sta., Bul. 300, 313 (1929).
California Spray Chemical Co., Watsonville, Cal. Volck Light, . . . . .	83.00 <sup>3</sup>	81.80 <sup>3</sup>	1.00	0.80	17.95	17.95	0.51	34.00	50	95.6	Cal. Dept. Agr., Spec. Pub. 75, 49 (1927).
California Spray Chemical Co. Volck's Miscible No. 2, . . . . .	85.00	90.35	1.70	4.65	2.25	2.25	0.51	28.77	55.0	79.2	Cal. Dept. Agr., Spec. Pub. 101, 44-45 (1930).
Carco Spray Co., Tacoma, Wash. Oil Emulsion, . . . . .	86.00	86.60	1.00	0.80	22.40	22.40	0.51	28.77	61.8	68.7	Oreg. Agr. Expt. Sta., Cir. 84, 13 (1927).
Classen, Murfit & Co., Philadelphia, Pa. Keresol, . . . . .	80.00 <sup>15</sup>	80.00 <sup>15</sup>	4.15	12.00	22.40	22.40	1.30	20.00	61.8	91.2	Conn. Agr. Expt. Sta., Bul. 258, 373 (1924).
Clarkson & Ford, New York, N. Y. Soluble Spray Oil <sup>16</sup> , . . . . .	85.00	85.10	1.00	0.80	22.40	22.40	0.51	20.00	61.8	91.2	Conn. Agr. Expt. Sta., Bul. 272, 148 (1925).
Clipper Chemical Co. Clipper Brand Oil Emulsion, . . . . .	76.67	76.67	1.00	2.20	22.40	20.60	0.51	28.77	39.3	68.7	Cal. Dept. Agr., Spec. Pub. 101, 46 (1930).
The Co-Operative Fumigation & Supply Co. Co-Op Brand Spray Emulsion Medium, . . . . .	85.00	85.80	1.00	0.80	22.40	22.40	0.51	30.43	61.8	91.2	Cal. Dept. Agr., Spec. Pub. 101, 54 (1930).

Coulson Poultry & Stock Food. Coulson's Poultry Spray	.....	38.60	9.60 <sup>17</sup>	.....	.....	0.10	0.04	26.20	.....	33.4	Cal. Dept. Agr., Spec. Pub. 51, 45 (1925).
Eastbay Chemical Co., Emeryville, Cal. Zeno Miscible Oil Spray <sup>18</sup>	.....	84.22	4.00	4.78	.....	.....	0.94	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 34, 36 (1923).
Eastbay Chemical Co., Emeryville, Cal. Zeno Miscible Oil Spray <sup>19</sup>	.....	83.00	4.20	.....	.....	.....	.....	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 34, 36 (1923).
Givin Brothers Commercial Sprayers. Givin's Citrus Spray	83.00	38.60	.....	.....	.....	11.10	.....	28.60	85.0	89.2	Cal. Dept. Agr., Spec. Pub. 101, 55 (1930).
Robert E. Gleason, Freewater, Ore. Caseinate Emulsion	60.00 <sup>2</sup>	73.60 <sup>3</sup>	.....	.....	.....	.....	.....	.....	.....	.....	Oreg. Agr. Expt. Sta., Cir. 95, 17 (1929).
Herbicide Chemical Laboratories. Fumispay	54.57	53.99	.....	3.13 <sup>20</sup>	45.29	42.20	0.01	.....	.....	65.3	Cal. Dept. Agr., Spec. Pub. 51, 35 (1925).
Herbicide Chemical Laboratories. Fumispay	.....	55.76	.....	3.54	40.00	39.00	0.08	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 51, 35 (1925).
Hood River Spray Co., Hood River, Ore. Dormoil	84.00	85.50	.....	.....	.....	.....	.....	.....	.....	.....	Oreg. Agr. Expt. Sta., Cir. 106, 20 (1931).
Hood River Spray Co., Hood River, Ore. Extermol	80.00	78.50	.....	.....	.....	.....	.....	.....	.....	.....	Oreg. Agr. Expt. Sta., Cir. 106, 20 (1931).
Hood River Spray Co., Hood River, Ore. Oil Emulsion	84.00	90.70	.....	.....	.....	.....	.....	.....	.....	.....	Oreg. Agr. Expt. Sta., Cir. 84, 13 (1927).
Hood River Spray Co., Hood River, Ore. Oil Emulsion	75.00	73.80	.....	.....	.....	.....	.....	.....	.....	.....	Oreg. Agr. Expt. Sta., Cir. 84, 13 (1927).
Hood River Spray Co., Hood River, Ore. Summerol	80.00	81.90	.....	.....	.....	.....	.....	.....	.....	.....	Oreg. Agr. Expt. Sta., Cir. 106, 20 (1931).
Imperial Pesticide Mfg. Co. Imperial Spray Emulsion	85.00	90.33	.....	.....	.....	9.22	.....	28.63	85.0	89.2	Cal. Dept. Agr., Spec. Pub. 101, 55 (1930).
H. N. Leckenby, Seattle, Wash. Dormant Oil Emulsion	80.00	81.50	.....	.....	.....	.....	.....	.....	.....	.....	Oreg. Agr. Expt. Sta., Cir. 106, 20 (1931).
Leffingwell Rancho Co. Pest Oil 60	85.00	90.70	.....	.....	.....	9.00	.....	30.10	65.5	89.9	Cal. Dept. Agr., Spec. Pub. 101, 56 (1930).
Leffingwell Rancho Co. Pest Oil 80	.....	89.20	.....	.....	.....	10.66	.....	30.00	77.0	91.5	Cal. Dept. Agr., Spec. Pub. 101, 56 (1930).
Leffingwell Rancho Co. Triple X	85.00	91.20	.....	.....	.....	8.80	.....	31.60	62.0	92.0	Cal. Dept. Agr., Spec. Pub. 101, 55 (1930).
Leffingwell Rancho Co. Triple X Heavy	.....	89.45	.....	.....	.....	9.40	.....	33.85	71.0	95.6	Cal. Dept. Agr., Spec.



TABLE XXI. OIL EMULSIONS, MINERAL—Continued

Manufacturer or Distributor and Brand	Oil		Phenols—Found	Soap—Found	Water		Soap Ash other than Soap Ash—Found	Constants of Separated Oil			Publication
	Guaranteed	Found			Guaranteed	Found		Baumé Gravity, degrees	Saybolt Vis- cosity, 100° F., seconds	Unsulpho- mated	
	%	%	%	%	%	%	%			%	
Leffingwell Rancho Co. Triple X Light 50	85.00	88.90	....	....	....	9.60	....	30.80	69.0	90.8	Pub. 101, 55 (1930). Cal. Dept. Agr., Spec. Pub. 101, 55 (1930).
Leffingwell Rancho Co. Triple X Medium	90.00	89.80	....	....	....	9.87	....	33.53	62.2	93.7	Cal. Dept. Agr., Spec. Pub. 101, 55 (1930).
Leffingwell Rancho Co. Triple X 60.....	90.00	89.93	....	....	....	9.45	....	31.15	64.0	91.4	Cal. Dept. Agr., Spec. Pub. 101, 55 (1930).
Leffingwell Rancho Co. Triple X 70.....	....	89.80	....	....	....	9.40	....	30.60	68.0	92.0	Cal. Dept. Agr., Spec. Pub. 101, 55 (1930).
Leffingwell Rancho Co., Whittier, Cal. XXX Heavy Emulsion.....	85.00 <sup>3</sup>	87.80 <sup>3</sup>	....	....	....	12.50	....	38.10	69	98.4	Cal. Dept. Agr., Spec. Pub. 75, 49 (1927).
Leffingwell Rancho Co., Whittier, Cal. XXX Medium Emulsion.....	85.00 <sup>3</sup>	87.70 <sup>3</sup>	....	....	....	12.40	....	33.50	63	88.8	Cal. Dept. Agr., Spec. Pub. 75, 49 (1927).
Los Angeles Chemical Co. Mission Brand Insecto Light.....	....	85.80	....	....	....	13.90	....	28.00	62.0	86.0	Cal. Dept. Agr., Spec. Pub. 101, 56 (1930).
Los Angeles Chemical Co. Mission Brand Insecto Medium.....	85.00	84.75	....	....	....	14.88	....	27.52	82.6	88.1	Cal. Dept. Agr., Spec. Pub. 101, 56 (1930).
Los Angeles Chemical Co., Los Angeles, Cal. Mission Brand Insecto No. 1.....	90.00 <sup>3</sup>	91.10 <sup>3</sup>	....	....	....	8.42	....	26.40	75	70.0	Cal. Dept. Agr., Spec. Pub. 75, 49 (1927).
Manufacturer unknown. Dwight Judson's Ideal Spray Oil—1930 <sup>21</sup> .....	....	77.80	....	14.34	....	....	0.68	....	189.5	54.0	Conn. Agr. Expt. Sta., Bul. 346, 246 (1933).
Manufacturer unknown. 56 <sup>22</sup> .....	....	91.50	....	5.77	....	0.66 <sup>23</sup>	....	38.50	90.9	90.0	Conn. Agr. Expt. Sta., Sample 5468.
Manufacturer unknown. Sulco-V. B.....	....	....	3.97	....	....	....	....	....	....	....	Conn. Agr. Expt. Sta., Bul. 242, 162 (1922).

McClure Chemical Laboratories. Calox...	....	89.20	3.33	4.00	16.00	2.87	....	29.00	....	56.5	Cal. Dept. Agr., Spec. Pub. 58, 44 (1925).
McClure Chemical Laboratories, Martinez, Cal. Kazo <sup>24</sup> .....	85.00	....	....	....	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 47 (1930).
McClure Chemical Laboratories. Renol (Miscible Oil).....	....	84.60	3.50	8.50	6.00	2.40	....	38.60	....	69.6	Cal. Dept. Agr., Spec. Pub. 58, 44 (1925).
G. P. McNear Co., Petaluma, Cal. Four and One Spray.....	....	92.70	7.20 <sup>25</sup>	....	....	0.10	0.01	....	....	74.2	Cal. Dept. Agr., Spec. Pub. 51, 45 (1925).
G. P. McNear Co., Petaluma, Cal. Mc- Near's Poultry House Spray.....	94.00	94.24	5.76 <sup>26</sup>	....	....	trace	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 56 (1927).
Michel & Pelton Co. Mapco Miscible Oil..	....	83.60	5.20	7.05	10.00	2.50	....	21.05	....	....	Cal. Dept. Agr., Spec. Pub. 75, 53 (1927).
Miller Products Co., Portland, Oreg. Redoilo.....	80.00	79.00	....	....	....	....	....	....	....	....	Oreg. Agr. Expt. Sta., Cir. 106, 20 (1931).
Mirakol Chemical Co., Fullerton, Cal. Mirakol Medium Light Special.....	....	72.37	....	3.24	25.00	24.45	....	29.90	66.0	90.2	Cal. Dept. Agr., Spec. Pub. 101, 47 (1930).
Mirakol Chemical Co., Fullerton, Cal. Mirakol Medium Special.....	....	71.95	....	2.95	....	25.10	....	30.10	67.5	90.8	Cal. Dept. Agr., Spec. Pub. 101, 47 (1930).
Chas. C. Navlet Co., Inc., San Francisco, Cal. Navco Crude Oil Emulsion <sup>27</sup> .....	....	66.12	....	....	30.00 <sup>3</sup>	31.60 <sup>3</sup>	0.64	22.60	....	31.7	Cal. Dept. Agr., Spec. Pub. 51, 33 (1925).
Chas. C. Navlet Co., Inc., San Francisco, Cal. Navco Miscible Oil.....	....	85.40 <sup>3</sup>	5.20	6.30	12.00 <sup>3</sup>	2.80 <sup>3</sup>	....	22.30	....	....	Cal. Dept. Agr., Spec. Pub. 75, 53 (1927).
H. K. Patch. Premek Oil Emulsion Medium	85.00	86.90	....	....	....	12.68	....	29.85	60.5 <sup>28</sup>	93.5	Cal. Dept. Agr., Spec. Pub. 101, 56 (1930).
Peerless Spray Chemical Co. Peerless Light 60 Spray Emulsion.....	....	86.00	....	....	....	14.00	....	30.50	62.0	91.2	Cal. Dept. Agr., Spec. Pub. 101, 56 (1930).
Peerless Spray Chemical Co., Covina, Cal. Peerless Spray Emulsion.....	85.00 <sup>3</sup>	85.27 <sup>3</sup>	....	....	....	14.13	....	27.77	85	86.4	Cal. Dept. Agr., Spec. Pub. 75, 49 (1927).
Perfecto Spray Manufacturing Co., Walnut, Cal. Anaheim Spray Emulsion <sup>24</sup> .....	....	....	....	....	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 57 (1930).
Perfecto Spray Mfg. Co., Los Angeles, Cal. Perfecto Spray Oil.....	83.00 <sup>3</sup>	85.73 <sup>3</sup>	....	....	....	13.98	....	31.33	45	74.3	Cal. Dept. Agr., Spec. Pub. 75, 49 (1927).
B. G. Pratt, New York, N. Y. Pratt's Carboleine <sup>29</sup> .....	86.00	88.70	present	....	....	11.17	1.22	....	....	....	Conn. Agr. Expt. Sta., Bul. 272, 148 (1925).
B. G. Pratt Co., New York, N. Y. Scalecide with Fungicide <sup>30</sup> .....	....	84.70	....	6.58	9.00	....	0.63	34.30	36.0	44.2	Conn. Agr. Expt. Sta., Bul. 346, 247 (1933).
B. G. Pratt Co., New York, N. Y. Scalecide with Fungicide.....	....	91.40	....	....	....	....	....	34.50	43.4	46.0	Conn. Agr. Expt. Sta., Bul. 346, 247 (1933).

TABLE XXI. OIL EMULSIONS, MINERAL—*Concluded*

Manufacturer or Distributor or Brand	Oil		Phenols—Found	Soap—Found	Water		Ash other than Soap Ash—Found	Constants of Separated Oil			Publications
	Guaranteed	Found			Guaranteed	Found		Baumé Gravity, degrees	Saybolt Vis- cosity, 100 F., seconds	Unsulpho- nated	
	%	%	%	%	%	%	%			%	
Rochester Rex Co., Rochester, N. Y. Emulso. ....	.....	.....	.....	.....	.....	.....	.....	.....	157	61.0	Conn. Agr. Expt. Sta., Bul. 300, 315 (1929).
R. R. Rogers Chemical Co. "Cee-Pee-Dee" Carbolized Petroleum Distillate: .....	79.78	19.32 <sup>31</sup>	.....	.....	2.00	0.80	0.06	24.90	.....	47.5	Cal. Dept. Agr., Spec. Pub. 51, 45 (1925).
San José Spray Mfg. Co., San José, Cal. Cot Oil. ....	79.90 <sup>3</sup>	0.10	.....	.....	30.00	18.50	0.21	30.60	.....	62.2	Cal. Dept. Agr., Spec. Pub. 66, 31 (1926).
San José Spray Mfg. Co., San José, Cal. Crude Oil Emulsion. ....	81.19 <sup>3</sup>	0.20	.....	.....	.....	19.01	0.44	19.30	.....	.....	Cal. Dept. Agr., Spec. Pub. 66, 31 (1926).
San José Spray Manufacturing Co. Dormol .....	86.92	.....	.....	.....	20.00	11.93	.....	24.56	119.4	77.5	Cal. Dept. Agr., Spec. Pub. 101, 57 (1930).
San José Spray Mfg. Co., San José, Cal. Exelol. ....	83.14 <sup>3</sup>	.....	.....	.....	25.00	15.62	.....	22.53	.....	68.8	Cal. Dept. Agr., Spec. Pub. 75, 49 (1927).
San José Spray Manufacturing Co. Preemol .....	86.50	.....	.....	.....	20.00	12.40	.....	27.00	104.0	86.4	Cal. Dept. Agr., Spec. Pub. 101, 57 (1930).
San José Spray Mfg. Co., San José, Cal. San José Summer Oil. ....	80.00 <sup>3</sup>	86.01 <sup>3</sup>	.....	.....	.....	13.58	.....	30.60	106	100.0	Cal. Dept. Agr., Spec. Pub. 75, 49 (1927).
San José Spray Mfg. Co., San José, Cal. Skalene. ....	78.54 <sup>3</sup>	5.60	4.20	10.00	11.75	.....	.....	27.30	.....	64.4	Cal. Dept. Agr., Spec. Pub. 66, 33 (1926).
San José Spray Mfg. Co., San José, Cal. Skalol. ....	82.70 <sup>3</sup>	4.60	5.30	10.00	6.20	.....	.....	21.20	.....	.....	Cal. Dept. Agr., Spec. Pub. 75, 53 (1927).
San José Spray Manufacturing Co. Summer Oil. ....	80.00	89.50	.....	.....	.....	10.60	.....	29.70	105.0	98.4	Cal. Dept. Agr., Spec. Pub. 101, 57 (1930).
San José Spray Manufacturing Co. Wintrol .....	85.57	.....	.....	.....	.....	13.01	.....	22.85	124.5	69.8	Cal. Dept. Agr., Spec. Pub. 101, 57 (1930).
Santa Rosa Poultry Association, Santa											Cal. Dept. Agr., Spec.

Rosa, Cal. Sarpa Poultry Spray <sup>32</sup> .....	....	98.10	1.60	....	....	0.30	none	....	....	42.0	Pub. 51, 57 (1925).
Santa Rosa Poultry Association, Santa Rosa, Cal. Sarpa Poultry Spray.....	....	76.11	21.88	....	....	2.00	0.01	....	....	....	Cal. Dept. Agr., Spec. Pub. 51, 57 (1925).
Sherwin-Williams Co., Cleveland, Ohio. Citro-Mulsion <sup>33</sup> .....	69.00	72.90	0.56	....	31.00	23.20	0.05	....	....	67.1	Cal. Dept. Agr., Spec. Pub. 51, 33 (1925).
Sherwin-Williams Co., Cleveland, Ohio. Citro-Mulsion <sup>34</sup> .....	73.00	72.87	0.38	....	....	23.80	0.08	....	....	63.4	Cal. Dept. Agr., Spec. Pub. 51, 33 (1925).
Sherwin-Williams Co., Cleveland, Ohio. Free Mulsion.....	....	85.70 <sup>35</sup>	....	....	....	....	....	....	162	59.4	Conn. Agr. Expt. Sta., Bul. 300, 316 (1929).
Sherwin-Williams Co. Sherwin-Williams Light Oil No. 50.....	83.00	84.23	....	....	....	....	....	32.13	51.7	93.6	Cal. Dept. Agr., Spec. Pub. 101, 58 (1930).
Sherwin-Williams Co. Sherwin-Williams Medium Oil No. 65.....	....	83.69	....	....	....	15.86	....	31.54	61.3	95.1	Cal. Dept. Agr., Spec. Pub. 101, 58 (1930).
Sherwin-Williams Co. Sherwin-Williams Oil No. 60.....	....	83.60	....	....	....	15.50	....	30.40	62.0	90.8	Cal. Dept. Agr., Spec. Pub. 101, 58 (1930).
Sherwin-Williams Co., Cleveland, Ohio. Spray Mulsion.....	....	83.60	2.90	8.10	5.00	4.00	....	24.70	....	....	Cal. Dept. Agr., Spec. Pub. 75, 53 (1927).
Sherwin-Williams Co., Cleveland, Ohio. Summer Mulsion.....	75.00	74.90	....	....	....	24.40	....	36.50	....	95.2	Cal. Dept. Agr., Spec. Pub. 75, 50 (1927).
Sherwin-Williams Co., Cleveland, Ohio. Winter Mulsion.....	75.00	75.34	0.23	....	....	23.80	0.11	27.20	....	58.9	Cal. Dept. Agr., Spec. Pub. 66, 31 (1926).
Standard Oil Co. of Indiana. Dendrol <sup>36</sup> ...	....	....	....	....	....	....	....	....	142	62.8	Conn. Agr. Expt. Sta., Bul. 300, 317 (1929).
Standard Oil Co. of Indiana. Dendrol <sup>37</sup> ...	....	93.60	....	3.35	....	....	1.16	....	97.0	72.6	Conn. Agr. Expt. Sta., Bul. 346, 248 (1933).
Standard Oil Co. of Indiana. L 21 Oil <sup>38</sup> ...	....	....	....	....	....	....	0.06	....	193	60.8	Conn. Agr. Expt. Sta., Bul. 300, 317 (1929).
Sterling Oil Spray Co. Premier A-1 Spray Emulsion.....	....	94.20	....	1.60	....	3.80	....	30.40	62.0	91.2	Cal. Dept. Agr., Spec. Pub. 101, 47 (1930).
Sterling Oil Spray Co. Premier, Medium..	....	94.48	....	1.70	8.00	3.49	....	30.83	66.8	94.3	Cal. Dept. Agr., Spec. Pub. 101, 47 (1930).
Sterling Spray Co. S. O. S. Sterling Oil Spray.....	....	92.48	....	1.90	....	4.55	....	36.65	37	76.1	Cal. Dept. Agr., Spec. Pub. 75, 51 (1927).
Stewart Oil Products Co., Beverly Hills, Cal. Solite Spray.....	92.00	95.80	....	....	....	2.50	....	30.70	76.0	94.0	Cal. Dept. Agr., Spec. Pub. 101, 58 (1930).
Sun Co., Boston & New York. Sun Miscible Oil <sup>39</sup> .....	....	79.00	....	....	....	....	2.85	....	....	....	Conn. Agr. Expt. Sta., Bul. 258, 373 (1924).

TABLE XXI. OIL EMULSIONS, MINERAL—Continued.

Manufacturer or Distributor and Brand	Oil		Phenols—Found	Soap—Found	Water		Soap Ash other than Soap Ash—Found	Constants of Separated Oil			Publications
	Guaranteed	Found			Guaranteed	Found		Baumé Gravity, degrees	Soapolt Vis- cosity, 100 F., seconds	Unsulpho- nated	
	%	%	%	%	%	%	%			%	
Sun Oil Co., Philadelphia, Pa. Sunoco Self Emulsifying Spray <sup>40</sup> .....	.....	82.10	.....	15.03	2.20	.....	0.89	24.20	489.5	40.6	Conn. Agr. Expt. Sta., Bul. 346, 248 (1933).
Sun Oil Co., Philadelphia, Pa. Sunoco Spray Oil.....	.....	.....	.....	.....	.....	.....	.....	.....	374	46.0	Conn. Agr. Expt. Sta., Bul. 300, 317 (1929).
Superla Laboratories, Inc. Dendrol Dorm- ant Spray Oil <sup>41</sup> .....	.....	83.74 <sup>2</sup>	.....	2.69	.....	.....	1.45	31.70	93.0	61.0	Conn. Agr. Expt. Sta., Bul. 346, 248 (1933).
F. J. Trafton Marketing Co. Trafton's Old Reliable Spray Emulsion Medium.....	85.00	86.50	.....	.....	.....	13.15	.....	28.60	85.5	89.0	Cal. Dept. Agr., Spec. Pub. 101, 58 (1930).
Van Antwerp Drug Corp., Mobile, Ala. Schnarr's Insecticide <sup>43</sup> .....	.....	49.13	.....	.....	.....	33.68	1.44	.....	.....	.....	Conn. Agr., Expt. Sta., Bul. 258, 373 (1924).

<sup>1</sup> Inert matter 24.60 percent.<sup>2</sup> Soap guaranteed 4.00 percent; inert matter guaranteed 26.00 percent; found 30.00 percent; Baumé gravity of oil, guaranteed 30.00. Rosin present.<sup>3</sup> Percent by volume.<sup>4</sup> Emulsifying agent probably a cresol soap.<sup>5</sup> Total ash 1.78 percent; soap is a potassium soap.<sup>6</sup> Phenols guaranteed 87.00 percent. This emulsion contains rosin.<sup>7</sup> Inert matter guaranteed 13.00 percent; found 6.00 percent. Rosin present.<sup>8</sup> Nicotine guaranteed 1.00 percent; found 2.50 percent.<sup>9</sup> Guaranteed 1.00 percent.<sup>10</sup> Nicotine, guaranteed 3.00 percent; found 3.90 percent.<sup>11</sup> Total nitrogen, 0.15 percent; ammonia (NH<sub>3</sub>) 0.12 percent; casein 0.19 percent. This is an ammonium caseinate emulsion.<sup>12</sup> Total ash 0.26 percent.<sup>13</sup> Ash contains copper and calcium.<sup>14</sup> Total ash 0.56 percent.<sup>15</sup> Kerosene.<sup>16</sup> Rosin present. A light petroleum oil containing a sodium soap.<sup>17</sup> Guaranteed 15.00 percent. Sample does not contain rosin.<sup>18</sup> Inert matter guaranteed 16.00 percent; found 6.00 percent.<sup>19</sup> Inert matter guaranteed 16.50 percent; found 12.50 percent.<sup>20</sup> Guaranteed 0.14 percent.

- 21 Total ash 3.16 percent.  
 22 Free oleic acid 0.14 percent; ash 0.005 percent; organic bases and undetermined 1.93 percent. No nicotine, anabasine or organic thiocyanates.  
 23 Ammonium oleate.  
 24 Emulsion broken; no analysis.  
 25 Guaranteed 2.00 percent.  
 26 Guaranteed 4.80 percent.  
 27 Ether-insoluble matter (gluc) 1.65 percent. Rosin present.  
 28 Guaranteed 60.  
 29 Guaranteed mineral oil 83.00 percent; saponifiable oil 3.00 percent; potassium oxide 1.00 percent.  
 30 Guaranteed ammonium and potassium sulphates traces; found, total ash 2.04 percent; saponifiable matter in separated oil, 1.68 percent.  
 31 Guaranteed 20.00 percent.  
 32 Specific gravity, 0.890.  
 33 Ether-insoluble (gums) 2.05 percent.  
 34 Ether-insoluble (gums) 2.18 percent.  
 35 Cc. per 100 gm.  
 36 Alcohol 0.23 percent.  
 37 Total ash 1.74 percent.  
 38 Total nitrogen 0.03 percent; ammonia nitrogen 0.01 percent.  
 39 Unsaponifiable matter 79.00 percent; saponified matter 16.00 percent.  
 40 Guaranteed sodium sulphate 0.8 percent; petroleum products 97 percent; found, total ash 3.49 percent.  
 41 Guaranteed petroleum oil and emulsifying agent 97 percent; inert 3 percent. Found: Total oil 95.3 percent; total ash 1.91 percent.  
 42 Mineral oil.  
 43 Total fatty acids 8.25 percent; free fatty acids 0.77 percent.



TABLE XXII. OILS, MINERAL

Manufacturer or Distributor and Brand	Baumé gravity, degrees	Specific gravity, 20° C.	Saybolt Viscosity, 100° C., seconds	Unsulphonated, percent	Evaporation, 60-65° C.	Cold Test	Publication
Associated Oil Co., San José, Cal. Avon Brown Neutral	21.8	.....	.....	63.2	.....	.....	Cal. Dept. Agr., Spec. Pub. 75, 65 (1927).
Associated Oil Co., San Jose, Cal. Crude Oil <sup>2</sup>	18.4	.....	.....	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 34, 39 (1923).
The Atlantic Refining Co., Philadelphia, Pa. Atlantic White Oil No. 15	.....	.....	174.9	77.0	.....	.....	Conn. Agr. Expt. Sta., Sample 9277.
The Atlantic Refining Co., Philadelphia, Pa. Pale Paraffine Oil 34-C-11-58	.....	.....	90.9	69.2	.....	.....	Conn. Agr. Expt. Sta., Sample 7424.
The Atlantic Refining Co., Philadelphia, Pa. 1251 Paraffin Oil	.....	.....	72.4	70.4	.....	.....	Conn. Agr. Expt. Sta., Sample 8957.
The Atlantic Refining Co., Philadelphia, Pa. Ultrol No. 5	.....	.....	69.5	94.0	.....	.....	Conn. Agr. Expt. Sta., Sample 9276.
The Atlantic Refining Co., Philadelphia, Pa. Ultrol No. 8	.....	.....	98.2	88.0	.....	.....	Conn. Agr. Expt. Sta., Sample 9284.
California Spray Chemical Co., Watsonville, Cal. Kleenup Oil Stock	.....	.....	96.3	64.3	.....	.....	Conn. Agr. Expt. Sta., Bul. 346, 249 (1933).
J. R. Chase, San José, Cal. Crude Oil <sup>3</sup>	19.5	.....	.....	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 51, 57 (1925).
G. F. Doleshal Products Co., Pasadena, Cal. Sure-Shot <sup>4</sup>	39.6	.....	.....	75.9	.....	.....	Cal. Dept. Agr., Spec. Pub. 51, 57 (1925).
Hackney Chemical Co., Parlier, Cal. Di-Fli Home Spray	39.3	.....	.....	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 58, 48 (1925).
Hockwald Chemical Co., San Francisco, Cal. Fli-Mo-Cide <sup>5</sup>	44.1	.....	.....	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 58, 48 (1925).
Lacko Specialty Co., Inc., San Francisco, Cal. Fly Croke	43.5	.....	.....	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 58, 48 (1925).

<sup>1</sup> Footnotes at the end of table.

Lacko Specialty Co., Inc., San Francisco, Cal. Lilacko Spray <sup>6</sup> .....	43.1	.....	.....	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 58, 48 (1925).
Mailliard & Schmiehell, San Francisco, Cal. Chemco Insect and Germ Destroyer <sup>7</sup> .....	50.5	.....	.....	52.1 <sup>8</sup>	.....	.....	Cal. Dept. Agr., Spec. Pub. 51, 56 (1925).
Manufacturer unknown. Alcopol Oil.....	0.9201	222.2	56.2	3.22	+7°F.	.....	Conn. Agr. Expt. Sta., Bul. 300, 306 (1929).
Manufacturer unknown. Mineral Oil 12-71-5....	.....	47.2	93.0	.....	.....	.....	Conn. Agr. Expt. Sta., Bul. 346, 249 (1933).
Manufacturer unknown. Mineral Oil 12-71-6....	.....	48.0	92.6	.....	.....	.....	Conn. Agr. Expt. Sta., Bul. 346, 249 (1933).
Manufacturer unknown. No. 14 Mineral Oil....	.....	246.4	97.8	1.71	.....	.....	Conn. Agr. Expt. Sta., Bul. 300, 306 (1929).
Manufacturer unknown. No. 15 Mineral Oil....	.....	90.0	92.8	1.38	.....	.....	Conn. Agr. Expt. Sta., Bul. 300, 306 (1929).
Manufacturer unknown. No. 16 Mineral Oil....	.....	331.4	96.4	1.68	.....	.....	Conn. Agr. Expt. Sta., Bul. 300, 307 (1929).
Manufacturer unknown. No. 14 Spray Oil....	0.9306	604.0	56.0	1.77	+27°F.	.....	Conn. Agr. Expt. Sta., Bul. 300, 307 (1929).
Manufacturer unknown. No. 910 Spray Oil....	0.9280	472.7	56.4	1.69	+16°F.	.....	Conn. Agr. Expt. Sta., Bul. 300, 307 (1929).
Mystic Mfg. Co., Glendale, Cal. XX Mystic XX Spray <sup>9</sup> .....	37.6	.....	.....	77.4	.....	.....	Cal. Dept. Agr., Spec. Pub. 58, 43 (1925).
Standard Oil Co. of New Jersey. Acto.....	.....	172.8	96.0	.....	.....	.....	Conn. Agr. Expt. Sta., Bul. 300, 307 (1929).
Standard Oil Co. of New Jersey. 885 Oil.....	.....	125.8	65.1	.....	.....	.....	Conn. Agr. Expt. Sta., Bul. 346, 249 (1933).
Standard Oil Co. of New Jersey. 56 White Oil..	.....	58.2	97.0	.....	.....	.....	Conn. Agr. Expt. Sta., Bul. 346, 249 (1933).
Standard Oil Co. of New Jersey. 5 White Oil..	.....	96.9	97.0	.....	.....	.....	Conn. Agr. Expt. Sta., Bul. 346, 249 (1933).
Standard Oil Co. of New Jersey. Marcol.....	.....	95.5	96.0	.....	.....	.....	Conn. Agr. Expt. Sta., Bul. 300, 307 (1929).
Standard Oil Co. of New Jersey. Mineral Seal Oil	.....	52.2	84.0	.....	.....	.....	Conn. Agr. Expt. Sta., Bul. 346, 249 (1933).
Standard Oil Co. of New Jersey. Spray Oil 14-21	.....	108.4	71.8	.....	.....	.....	Conn. Agr. Expt. Sta., Bul. 346, 249 (1933).
Standard Oil Co. of New Jersey. 300 Mineral Seal Oil.....	.....	45.2	86.0	.....	.....	.....	Conn. Agr. Expt. Sta., Bul. 346, 249 (1933).
Standard Oil Co. of New Jersey. White Oil....	.....	60.3 <sup>10</sup>	94.0	.....	.....	.....	Conn. Agr. Expt. Sta., Bul. 346, 249 (1933).
Standard Oil Co. of New Jersey. Wyrol.....	.....	140.1	96.0	.....	.....	.....	Conn. Agr. Expt. Sta., Bul. 300, 307 (1929).
Standard Oil Co. of New York. Socony Motor Oil-Heavy.....	0.9148	915.4	39.6	0.73	+18°F.	.....	Conn. Agr. Expt. Sta., Bul. 300, 307 (1929).
Standard Oil Co. of New York. Socony Motor Oil-Light.....	0.9073	291.4	62.4	1.26	+10°F.	.....	Conn. Agr. Expt. Sta., Bul. 300, 307 (1929).
Standard Oil Co. of New York. Socony Motor Oil-Medium.....	0.9129	443.3	52.4	0.85	+16°F.	.....	Conn. Agr. Expt. Sta., Bul. 300, 307 (1929).
Standard Oil Development Co. Acto.....	.....	159.6	98.0	.....	.....	.....	Conn. Agr. Expt. Sta., Bul. 346, 249 (1933).
Standard Oil Development Co. Acto.....	.....	196.0	94.6	.....	.....	.....	Conn. Agr. Expt. Sta., Bul. 346, 249 (1933).
Standard Oil Development Co. Marcol.....	.....	89.5	96.4	.....	.....	.....	Conn. Agr. Expt. Sta., Bul. 346, 249 (1933).
Sun Oil Co., Philadelphia Pa. XXX Pale Spindle Oil.....	0.9257	168.8	55.2	3.88	-27°F.	.....	Conn. Agr. Expt. Sta., Bul. 300, 307 (1929).
Sun Oil Co., Philadelphia, Pa. LIV Newport Pale	0.9307	223.7	54.8	3.04	+16°F.	.....	Conn. Agr. Expt. Sta., Bul. 300, 307 (1929).



TABLE XXII. OILS, MINERAL—Continued

Manufacturer or Distributor and Brand	Baumé gravity, degrees	Specific gravity, 20° C.	Saybolt Viscosity, 100° C., seconds	Unsulphonated, percent	Evaporation, 60-65° C., percent	Cold Test	Publication
Sun Oil Co., Philadelphia, Pa. LIX New York Red	....	0.9360	449.3	53.2	1.77	+28°F.	Conn. Agr. Expt. Sta., Bul. 300, 307 (1929).
Sun Oil Co., Philadelphia, Pa. LXII Toledo Red	....	0.9347	332.2	53.4	2.22	+27°F.	Conn. Agr. Expt. Sta., Bul. 300, 308 (1929).
Sun Oil Co., Philadelphia, Pa. XCI Sunoco Golden	....	0.9254	103.2	58.0	5.08	-27°F.	Conn. Agr. Expt. Sta., Bul. 300, 308 (1929).
Sun Oil Co., Philadelphia, Pa. XCII Sunoco Golden	....	0.9395	195.7	76.6	2.44	-18°F.	Conn. Agr. Expt. Sta., Bul. 300, 308 (1929).
Sun Oil Co., Philadelphia, Pa. XCV Sunoco Golden	....	0.9450	433.8	77.8	1.69	+14°F.	Conn. Agr. Expt. Sta., Bul. 300, 308 (1929).
Sun Oil Co., Philadelphia, Pa. XCV Sunoco Golden	....	0.9518	652.0	75.0	1.58	+43°F.	Conn. Agr. Expt. Sta., Bul. 300, 308 (1929).
Sun Oil Co., Philadelphia, Pa. XCVII Sunoco Golden	....	0.9705	907.219	54.2	0.71	+85°F.	Conn. Agr. Expt. Sta., Bul. 300, 308 (1929).
The Texas Co. Aleph Oil	....	0.9313	291.2 <sup>11</sup>	53.4	2.88	+21°F.	Conn. Agr. Expt. Sta., Bul. 300, 308 (1929).
The Texas Co. Altair Oil	....	0.9342	463.2 <sup>12</sup>	54.4	2.05	+18°F.	Conn. Agr. Expt. Sta., Bul. 300, 308 (1929).
The Texas Co. Nabob Oil	....	0.9281	214.4 <sup>13</sup>	54.0	3.57	+19°F.	Conn. Agr. Expt. Sta., Bul. 300, 308 (1929).
The Texas Co. No. 776 Oil	....	0.9230	704.4 <sup>14</sup>	55.4	1.93	+41°F.	Conn. Agr. Expt. Sta., Bul. 300, 308 (1929).
Tidewater Oil Co. Tycol 122	....	0.9070	212.7	58.8	0.00	+21°F.	Conn. Agr. Expt. Sta., Bul. 300, 308 (1929).
Van Winkle Coffee Co., San Francisco, Cal. Old Rip Van Winkle Fly Spray <sup>15</sup>	42.2	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 58, 48 (1925)

<sup>1</sup> See Scott, "Standard Methods of Chemical Analysis" 1st ed. p. 575.

<sup>2</sup> Light oils 4.00 percent; medium oils 31.25 percent; heavy oils 64.75 percent.

<sup>3</sup> Distillation test: initial boiling-point 105° C.; distilling 105-200° C., 5.19 percent; 200-250° C., 9.86 percent; 250-305° C., 15.30 percent; residue 69.44 percent. Trace of water. Asphalt.

<sup>4</sup> Guaranteed active ingredients 100.00 percent. Found: Oil 99.8 percent; water 0.2 percent

<sup>5</sup> Ash 0.002 percent.

<sup>6</sup> Oil 91.8 percent.

<sup>7</sup> Sample is a mixture of kerosene and gasoline with a little oil of wintergreen.

<sup>8</sup> Fraction boiling above 150° C.

<sup>9</sup> Precipitated chalk, guaranteed 0.34 percent; none found. Water, trace.

<sup>10</sup> Guaranteed 56.

<sup>11</sup> Guaranteed 300.

<sup>12</sup> Guaranteed 500.

<sup>13</sup> Guaranteed 200.

<sup>14</sup> Guaranteed 780.

<sup>15</sup> Ash 0.011 percent; water, trace.

TABLE XXIII. PARADICHLORBENZENE

Manufacturer or Distributor and Brand	Paradichlor- benzene		Publication
	Guaranteed	Found	
Braun-Knecht-Heimann, San Francisco, Cal. ....	99.00	98.80	Oreg. Agr. Expt. Sta., Cir. 84, 14 (1927).
California Spray Chemical Co., Watsonville, Cal. Ortho. ....	99.00	98.50	Cal. Dept. Agr., Spec. Pub. 75, 67 (1927).
Chemical Specialties Co., Los Angeles, Cal. Fumex Moth Killer	99.00	98.26	Cal. Dept. Agr., Spec. Pub. 101, 83 (1930).
Clean Home Products Co., Chicago, Ill. Apex Moth Crystals	.....	present	Maine Agr. Expt. Sta., Official Inspections 138, 106 (1930).
Embree Mfg. Co., Elizabeth, N. J. Fragrance Crystals <sup>1</sup> . ....	.....	.....	Maine Agr. Expt. Sta., Official Inspections 142, 118 (1931).
F. A. Gardner, Covina, Cal. F-A-G Moth Insurance. ....	.....	99.38	Cal. Dept. Agr., Spec. Pub. 101, 83 (1930).
G. H. Garnet Co., Allentown, Pa. Parodant. ....	.....	present	Maine Agr. Expt. Sta., Official Inspections 142, 118 (1931).
Gero Products Inc., Boston, Mass. Zi Moz. ....	.....	present, cake	Maine Agr. Expt. Sta., Official Inspections 142, 118 (1931).
H. H. Hay Sons, Portland, Me. Moth-Di. ....	.....	present, cake	Maine Agr. Expt. Sta., Official Inspections 142, 118 (1931).
Hooker Electrochemical Co. Paracide. ....	100.00	99.70	Cal. Dept. Agr., Spec. Pub. 75, 66 (1927).
Lewy Chemical Co., Los Angeles, Cal. Moth-Gas Clothes Savers	.....	97.40	Cal. Dept. Agr., Spec. Pub. 101, 83 (1930).
C. E. McClellan & Co., Los Angeles, Cal. McClellan's Moth Nip Block. ....	.....	99.65	Cal. Dept. Agr., Spec. Pub. 101, 83 (1930).
Mechling Bros. Mfg. Co., Camden, N. J. Mechling's P. T. B <sup>2</sup> . ....	.....	.....	Conn. Agr. Expt. Sta., Bul. 242, 160 (1922).
Merck & Co., New York, N. Y. Dichloricide. ....	.....	present	Maine Agr. Expt. Sta., Official Inspections 142, 119 (1931).
Monsanto Chemical Works. Santo-chlor. ....	.....	99.80	Cal. Dept. Agr., Spec. Pub. 101, 83 (1930).
Chas. C. Navlet Co., Oakland, Cal. Navco Paradichlor. ....	.....	99.51	Cal. Dept. Agr., Spec. Pub. 101, 83 (1930).

TABLE XXIII. PARADICHLOROBENZENE

Manufacturer or Distributor and Brand	Paradichloro- benzene		Publication
	Guaranteed	Found	
Niagara Alkali Co. Niagara P. D. B <sup>3</sup> .....	.....	99.17	Cal. Dept. Agr., Spec. Pub. 51, 56 (1925).
Odora Co., Inc., New York, N. Y. Odora Moth Packet <sup>4</sup> .....	.....	present, cake	Maine Agr. Expt. Sta., Official Inspections 142, 119 (1931).
Odora Co., Inc., New York, N. Y. Odora Vapo Cake .....	.....	present, cake	Maine Agr. Expt. Sta., Official Inspections 142, 119 (1931).
Roseth Chemical Division, Inc., Brooklyn, N. Y. Mothex.....	.....	present, cake	Maine Agr. Expt. Sta., Official Inspections 142, 119 (1931).
Royal Mfg. Co., Duquesne, Pa. Sanifume Crystals.....	.....	present	Maine Agr. Expt. Sta., Official Inspections 142, 119 (1931).
San José Spray Mfg. Co. Para-Di-Chloro-Benzene.....	100.00	99.80	Cal. Dept. Agr., Spec. Pub. 101, 83 (1930).
Southern California Disinfecting Co., Los Angeles, Cal. Cedar Blocks.....	100.00	93.60	Cal. Dept. Agr., Spec. Pub. 75, 66 (1927).
Superl Mfg. Co., Los Angeles, Cal. Superl Moth Block.....	.....	93.76	Cal. Dept. Agr., Spec. Pub. 101, 83 (1930).

<sup>1</sup> Contents of package had evaporated. Probably paradichlorobenzene and perfume.  
<sup>2</sup> Melting point 56° C.  
<sup>3</sup> Melting-point 53.2° C.; no ash.  
<sup>4</sup> Highly perfumed.

TABLE XXIV. PARIS GREEN

Manufacturer or Distributor and Brand	Arsenious Oxide, As <sub>2</sub> O <sub>3</sub>				Cupric Oxide (CuO) Found	Publication
	Total		Water-Soluble			
	Guaranteed	Found	Guaranteed	Found		
Acme White Lead & Color Works, Detroit Mich. Acme...	%	%	%	%	%	Maine Agr. Expt. Sta., Official Inspections 154, 136 (1934).
Ansbacher Siegle Corp., New York, N. Y. Ansbacher's...	....	55.80	....	1.95	....	Maine Agr. Expt. Sta., Official Inspections 150, 120 (1933).
Jas. A. Blanchard Co., New York, N. Y. Lion Brand...	50.00	55.91	3.50	0.36	29.58	N. J. Agr. Expt. Sta., Bul. 556, 4 (1933).
Bowker Chemical Co., New York, N. Y.....	50.00	55.23	3.50	1.15	29.55	N. J. Agr. Expt. Sta., Bul. 459, 5 (1927).
Geo. D. Brown Co., Fargo, N. Dak.....	50.00	53.50	3.50	2.00	....	N. Dak. Bul. 42, 119 (1934).
Brunswig Drug Co. Pfeiffer's.....	50.00	57.01	3.50	5.30	....	Cal. Dept. Agr., Spec. Pub. 75, 23 (1927).
Chipman Chemical Engineering Co., Inc., Bound Brook, N. J. Chipman.....	50.00	55.17	3.50	0.64	31.28	N. J. Agr. Expt. Sta., Bul. 459, 5 (1927).
Le Comptoir Co-Opératif Fédéré de Québec, Montreal, Canada.....	....	55.48	....	1.15	30.42	Canada Dept. Agr., Div. Chem., Rept. Dominion Chemist (1928).
Devoe & Reynolds Co., Inc., New York, N. Y. Pure....	50.00	56.53	3.50	1.29	30.57	N. J. Agr. Expt. Sta., Bul. 372, 8 (1922).
The Dow Chemical Co., Midland, Mich. Dow's.....	50.00	56.20	3.50	0.96	....	Maine Agr. Expt. Sta., Official Inspections 158, 135 (1935).
Thos. C. Dunham, Inc., New York, N. Y. Pure.....	50.00	56.01	3.50	1.55	29.29	N. J. Agr. Expt. Sta., Bul. 372, 8 (1922).
Dupuy & Ferguson, Montreal, Canada.....	....	56.99	....	1.17	30.07	Canada Dept. Agr., Div. Chem., Rept. Dominion Chemist (1928).
Gamble Skogmo Inc., Minneapolis, Minn.....	50.00	54.85	3.50	1.60	....	N. Dak. Bul. 37, 122 (1932).
General Chemical Co., New York, N. Y. Orchard Brand..	50.00	56.75	3.50	0.61	30.32	N. J. Agr. Expt. Sta., Bul. 556, 4 (1933).
The Glidden Co., Cleveland, O. Glidden.....	50.00	55.32	3.50	2.47	....	Cal. Dept. Agr., Spec. Pub. 75, 23 (1927).
Graves Hardware Co., Presque Isle, Me.....	50.00	54.60	3.50	2.55	....	Maine Agr. Expt. Sta., Official Inspections 130, 114 (1928).

TABLE XXIV. PARIS GREEN

Manufacturer or Distributor and Brand	Arsenious Oxide, As <sub>2</sub> O <sub>3</sub>				Cupric Acid, (CuO) Found	Publication
	Total		Water-Soluble			
	Guaranteed	Found	Guaranteed	Found		
Harvey Drug, Harvey, N. Dak.....		57.60		3.00	....	N. Dak. Bul. 47, 155 (1935).
Morris Herrmann & Co., New York, N. Y. Hi-Grade Pure	50.00	56.22	3.50	1.92	29.33	N. J. Agr. Expt. Sta., Bul. 478, 5 (1928).
Interstate Chemical Co., Jersey City, N. J. Key.....	50.00	55.04	3.50	1.15	31.60	N. J. Agr. Expt. Sta., Bul. 459, 5 (1927).
F. L. Lavanburg Co., New York, N. Y. Warranted.....	50.00	55.60		2.46	....	Maine Agr. Expt. Sta., Official Inspections 146, 133 (1932).
Leggett & Bros., Inc., New York, N. Y.....	50.00	56.46	3.50	1.42	29.93	N. J. Agr. Expt. Sta., Bul. 372, 8 (1922).
John Lucas & Co., Inc., Philadelphia, Pa. John Lucas...	50.00	55.58	3.50	3.07	....	Cal. Dept. Agr., Spec. Pub. 75, 23 (1927).
Lucas Kil-Tone Co., Vineland, N. J.....	50.00	56.20	3.50	1.15	....	Maine Agr. Expt. Sta., Official Inspections 158, 135 (1935).
Manufacturer unknown.....		56.59		1.76	31.66	Conn. Agr. Expt. Sta., Bul. 346, 251 (1933).
Martin-Senour Co., Chicago, Ill.....	50.00	54.33	3.50	1.65	30.19	N. J. Agr. Expt. Sta., Bul. 424, 7 (1925).
Montgomery, Ward & Co., Oakland, Cal.....	50.00	56.72	3.50	2.06	....	Cal. Dept. Agr., Spec. Pub. 75, 23 (1927).
Moorhead Seed Co.....		57.05		1.55	....	N. Dak. Bul. 47, 155 (1935).
Niagara Sprayer & Chemical Co., Middleport, N. Y. Niagara.....	50.00	55.80	3.50	0.96	....	Maine Agr. Expt. Sta., Official Inspections 158, 135 (1935).
Nitrate Agencies Co., Bayonne, N. J. Naco.....	50.00	54.34	3.50	1.50	30.01	N. J. Agr. Expt. Sta., Bul. 424, 7 (1925).
W. J. Nolan, Philadelphia, Pa.....	55.00	57.47	1.00	1.42	30.96	N. J. Agr. Expt. Sta., Bul. 577, 4 (1934).
Northern Drug Co., Duluth, Minn.....		57.00		1.10	....	N. Dak. Bul. 47, 155 (1935).
North Western Drug Co., Minneapolis, Minn.....		57.00		1.80	....	N. Dak. Bul. 47, 155 (1935).
Pfeiffer Insecticide Co., Inc., New York, N. Y. Bug.....	50.00	53.15	3.50	1.65	29.80	N. J. Agr. Expt. Sta., Bul. 424, 7 (1925).
J. D. Riedel, A. G., Berlin, Germany.....	57.32	56.69	1.00	0.61	30.65	N. J. Agr. Expt. Sta., Bul. 556, 4 (1933).
Sherwin-Williams Co., Cleveland, O. Hemmingway's...	50.00	55.42	3.50	1.10	....	Cal. Dept. Agr., Spec. Pub. 75, 23 (1927).
Sherwin-Williams Co., Cleveland, O. Sherwin-Williams..	50.00	55.83	3.50	2.74	....	Cal. Dept. Agr., Spec. Pub. 75, 23 (1927).

H. J. Smith & Co., Utica, N. Y. Pure.....	50.00	57.17	3.50	1.42	29.69	N. J. Agr. Expt. Sta., Bul. 372, 8 (1922).
Snow & Nealley, Bangor, Me.....	.....	57.20	.....	3.02	.....	Maine Agr. Expt. Sta., Official Inspections 126, 84 (1927).
Walnut Growers' Spray Mfg. Co. Golden State.....	50.00	55.73	3.50	2.37	.....	Cal. Dept. Agr., Spec. Pub. 75, 23 (1927).
Western Wholesale Drug Co. Devoe.....	50.00	56.69	3.50	2.24	.....	Cal. Dept. Agr., Spec. Pub. 75, 23 (1927).
Western Wholesale Drug Co. Star.....	50.00	57.81	3.50	1.98	.....	Cal. Dept. Agr., Spec. Pub. 75, 23 (1927).

.....	10.00	15.00	21.00	.....	.....	Cal. Dept. Agr. Spec. Pub. 127, 24 (1931)		
.....	10.00	21.20	0.30	.....	.....	Cal. Dept. Agr. Spec. Pub. 101, 21 (1930)		
.....	12.00	0.25	.....	30.20	30.80	30.10	Cal. Dept. Agr. Spec. Pub. 28, 40 (1932)	
.....	23.20	1.00	.....	30.20	13.30	.....	Cal. Dept. Agr. Spec. Pub. 21, 44 (1932)	
.....	14.85	.....	0.02	.....	0.10	.....	Cal. Dept. Agr. Spec. Pub. 21, 44 (1932)	
.....	33.00	0.20	0.70	.....	0.80	30.00	Cal. Dept. Agr. Spec. Pub. 21, 44 (1932)	
.....	12.00	14.20	0.10	.....	33.80	32.20	33.20	Cal. Dept. Agr. Spec. Pub. 28, 40 (1932)
.....	22.00	1.00	.....	32.70	.....	.....	Cal. Dept. Agr. Spec. Pub. 28, 40 (1932)	
.....	34.00	0.20	.....	.....	.....	.....	Cal. Dept. Agr. Spec. Pub. 28, 40 (1932)	

TABLE 1

Paris Green (Approved)



TABLE XXV. PHENOL

Manufacturer or Distributor and Brand	Phenols		Water	Non-Soap Ash	Oils	Constants of Separated Oil		Publication
	Guaranteed	Found				Baumé Gravity, Degrees	Unsulphon- ated	
	%	%	%	%	%		%	
Braun-Knecht-Heimann Co., San Francisco, Cal. Acid Carbollic, Crude.....	....	24.60	0.50	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 58, 46 (1925).
Braun-Knecht-Heimann Co., San Francisco, Cal. Hercules Carbollic Acid.....	....	33.60	1.00	....	65.40	....	....	Cal. Dept. Agr., Spec. Pub. 75, 56 (1927).
Germain Seed & Plant Co. Germain Crude Carbollic Acid <sup>1</sup> .....	15.00	14.70	0.40	....	82.80	23.50	22.50	Cal. Dept. Agr., Spec. Pub. 58, 46 (1925).
Hayward Drug Co., Hayward, Cal. Crude Carbollic Acid.....	....	22.00	0.60	0.13	75.66	0.80	39.03	Cal. Dept. Agr., Spec. Pub. 51, 44 (1925).
A. R. Maas Laboratories. Crude Carbollic Acid	....	14.92	trace	0.05	84.48	0.70	trace	Cal. Dept. Agr., Spec. Pub. 51, 44 (1925).
Mefford Chemical Co., Los Angeles, Cal. Crude Carbollic Acid.....	....	37.70	1.60 <sup>2</sup>	trace	59.60	12.30	7.20	Cal. Dept. Agr., Spec. Pub. 51, 44 (1925).
Peterson Bros., Hayward, Cal. Waters Bros. Crude Carbollic Acid <sup>1</sup> .....	....	17.00	0.20	....	80.50	20.80	36.10	Cal. Dept. Agr., Spec. Pub. 58, 46 (1925).
Purity Chemical Co. Kreo-Phene Crude Carbollic Acid.....	40.00	31.50	0.30	....	66.34	....	....	Cal. Dept. Agr., Spec. Pub. 101, 71 (1930).
R. R. Rogers Chemical Co., San Francisco, Cal. Crude Carbollic Acid.....	40.00	42.00	14.00	....	44.00	....	....	Cal. Dept. Agr., Spec. Pub. 75, 56 (1927).
R. R. Rogers Chemical Co., San Francisco, Cal. Crude Carbollic Acid 25 percent.....	25.00	26.92	1.60	0.03	70.98	1.60	3.60	Cal. Dept. Agr., Spec. Pub. 51, 44 (1925).
Rogers Pharmacy, Hayward, Cal. Crude Sol. Carbollic Acid.....	....	12.60	trace	0.07	86.50	25.50	49.80	Cal. Dept. Agr., Spec. Pub. 51, 44 (1925).

<sup>1</sup> Adulterated with mineral oil.<sup>2</sup> Guaranteed none.

TABLE XXVI. PHENOL SOAP SOLUTIONS

Manufacturer or Distributor and Brand	Phenols		Soap		Water		Non-Soap Ash	Oils			Publication
	Guaranteed	Found	Guaranteed	Found	Guaranteed	Found		Total	Tar	Mineral	
	%	%	%	%	%	%	%	%	%	%	
Acme White Lead & Color Works, Detroit, Mich. Acme Sheep & Cattle Dip.....	....	10.70	....	24.30	10.00	10.40	0.60	....	52.00	....	Cal. Dept. Agr., Spec. Pub. 75, 57 (1927).
An-Fo Mfg. Co., Los Angeles, Cal. An-Fo Disinfectant.....	....	16.10	....	21.81	10.00	9.60	2.09	....	49.25	....	Cal. Dept. Agr., Spec. Pub. 75, 57 (1927).
An-Fo Mfg. Co., Los Angeles, Cal. An-Fo Sheep Dip.....	....	17.30	....	20.90	10.00	8.20	1.05	....	50.40	....	Cal. Dept. Agr., Spec. Pub. 75, 57 (1927).
H. L. Atkinson, San Francisco, Cal. At-Ko Sheep Dip.....	....	22.20	....	5.86	10.00	2.00	0.35	....	68.29	....	Cal. Dept. Agr., Spec. Pub. 75, 57 (1927).
Braun-Knecht-Heimann Co. Sheep Dip..	....	21.00	....	20.00	10.00	8.30	....	....	47.22	....	Cal. Dept. Agr., Spec. Pub. 101, 72 (1930).
Brewer & Co., Inc., Worcester, Mass. Creosanthol <sup>1</sup> .....	....	....	....	....	....	....	....	....	....	....	Maine Agr. Expt. Sta., Official Inspections 134, 114 (1929).
Brunswig Drug Co., Los Angeles, Cal. Creol Dip.....	....	13.40	....	14.57	10.00	10.16	....	....	60.26	....	Cal. Dept. Agr., Spec. Pub. 101, 72 (1930).
Buker's Bird Store, San Francisco, Cal. Buker's Sheep Dip.....	....	25.10	....	14.40	10.00	6.40	....	....	22.70	29.40	Cal. Dept. Agr., Spec. Pub. 75, 57 (1927).
California Spray Chemical Co. Ortho Carbolic Disinfectant.....	60.00	62.00	....	14.90	....	13.20	....	....	9.07	....	Cal. Dept. Agr., Spec. Pub. 101, 72 (1930).
Chicken Pharmacy, Petaluma, Cal. Veteri- nary Licuor Cresolis.....	33.00	52.75	19.00	19.69	....	24.60	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 72 (1930).
Coffin-Redington Co., San Francisco, Cal. Creo Fenol Sheep Dip.....	....	14.00	....	16.00	10.00	8.00	0.50	....	59.70	....	Cal. Dept. Agr., Spec. Pub. 75, 57 (1927).
The G. E. Conkey Co., Cleveland, O. Conkey's Noxicide <sup>2</sup> .....	....	16.80	....	23.30	9.00	8.60	0.60	49.20	....	....	Cal. Dept. Agr., Spec. Pub. 51, 45 (1925).

<sup>1</sup> Footnotes at the end of table.



TABLE XXVI. PHENOL SOAP SOLUTIONS—Continued

Manufacturer or Distributor and Brand	Phenols		Soap		Water		Non-Soap Ash	Oils			Publication
	Guaranteed	Found	Guaranteed	Found	Guaranteed	Found		Total	Tar	Mineral	
	%	%	%	%	%	%	%	%	%	%	
Economy Hog & Cattle Powder Co. Economy Germicide Dip.....	.....	15.90	.....	14.20	10.00	6.60	1.20	.....	60.90	.....	Cal. Dept. Agr., Spec. Pub. 75, 57 (1927).
W. P. Fuller & Co. Fuller's Carbolic Insecticide Sheep Dip.....	9.10	13.00	6.00	7.90	.....	29.80	4.80	.....	45.00 <sup>3</sup>	.....	Cal. Dept. Agr., Spec. Pub. 75, 57 (1927).
W. P. Fuller & Co. Fuller's Sheep Dip and Cattle Wash.....	9.15	11.00	24.94	7.60	.....	15.30	2.40	.....	63.20 <sup>4</sup>	.....	Cal. Dept. Agr., Spec. Pub. 75, 57 (1927).
Furst-McNess Co., Oakland, Cal. F. W. McNess Krenol Dip & Disinfectant....	.....	19.40	.....	26.20	8.00	8.00	0.50	.....	43.60	.....	Cal. Dept. Agr., Spec. Pub. 75, 57 (1927).
Germain Seed & Plant Co., Los Angeles, Cal. Cann's Canco.....	.....	10.25	.....	20.57	10.00	14.10	1.06	.....	52.68	.....	Cal. Dept. Agr., Spec. Pub. 75, 58 (1927).
Germo Mfg. Co. Germo Carboline.....	.....	9.50	.....	13.60	12.00	12.00	0.70	.....	62.60	.....	Cal. Dept. Agr., Spec. Pub. 75, 58 (1927).
Germo Mfg. Co. Germo Cresosote Disinfectant Dip.....	.....	10.88	.....	12.98	10.00	9.50	.....	.....	65.42	.....	Cal. Dept. Agr., Spec. Pub. 101, 72 (1930).
Germo Mfg. Co. Germo Cresosote Dip....	.....	12.40	.....	14.70	12.00	7.40	.....	.....	63.00	.....	Cal. Dept. Agr., Spec. Pub. 75, 58 (1927).
Germo Mfg. Co. Germo Sheep Dip.....	.....	11.30	.....	19.60	12.00	10.40	0.60	.....	55.70	.....	Cal. Dept. Agr., Spec. Pub. 75, 58 (1927).
Heinrich Chemical Co., Oakland, Cal. Ongman's Dip & Disinfectant.....	.....	12.50	.....	10.30	8.00	5.80	1.70	.....	25.80	44.00	Cal. Dept. Agr., Spec. Pub. 75, 58 (1927).
Dr. Hess & Clark. Dr. Hess Dip and Disinfectant.....	14.00	14.93	20.00	19.07	9.50	8.87	1.25	.....	54.03 <sup>5</sup>	.....	Cal. Dept. Agr., Spec. Pub. 75, 58 (1927).
Dr. Hess & Clark. Dr. Hess Disinfectant Dip.....	14.00	15.90	20.00	17.68	9.50	7.60	.....	.....	52.86 <sup>5</sup>	.....	Cal. Dept. Agr., Spec. Pub. 101, 73 (1930).
Hockwald Chemical Co., Palo Alto, Cal. Hockwald Sheep Dip.....	.....	12.66	.....	13.00	12.00	6.10	.....	.....	66.30	.....	Cal. Dept. Agr., Spec. Pub. 101, 73 (1930).

Kirk, Geary & Co. Kirk Geary Dipsol Sheep Dip.....	16.00	25.30	....	14.10	7.00	4.60	0.10	....	28.70 <sup>6</sup>	26.70	Cal. Dept. Agr., Spec. Pub. 75, 58 (1927).
Langley & Michaels Co. Cresolite Sheep Dip.....	....	16.60	....	27.70	10.00	10.80	....	....	48.30	....	Cal. Dept. Agr., Spec. Pub. 75, 58 (1927).
Langley & Michaels Co. Germosol Special Disinfectant.....	....	58.80	....	20.10	20.00	17.00	3.70	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 58 (1927).
George H. Lee Co., Watsonville, Cal. Lee's Dip.....	....	21.33	....	28.15	10.00	8.00	....	....	40.61	....	Cal. Dept. Agr., Spec. Pub. 101, 73 (1930).
Dr. LeGear Medicine Co., St. Louis, Mo. Dr. LeGear's Dip and Disinfectant <sup>7</sup> .....	....	12.51	....	18.90	12.00	10.80	0.20	55.97	....	....	Cal. Dept. Agr., Spec. Pub. 51, 45 (1925).
Arthur R. Maas Chemical Co. Cresylol.....	....	14.76	....	15.60	15.00	10.60	0.43	....	....	57.95	Cal. Dept. Agr., Spec. Pub. 75, 58 (1927).
Arthur R. Maas Laboratories, Los Angeles, Cal. Cresy-Lol-Dip.....	....	17.10	....	21.36	25.00	10.66	....	....	48.18	....	Cal. Dept. Agr., Spec. Pub. 101, 73 (1930).
Arthur R. Maas Laboratories, Los Angeles, Cal. Maas' Sheep Dip.....	....	13.00	....	15.10	20.00	11.20	....	....	58.65	....	Cal. Dept. Agr., Spec. Pub. 101, 73 (1930).
C. U. McClellan & Co. McClellan's Cresolis.....	....	50.30	....	26.48	16.00	22.60	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 73 (1930).
C. U. McClellan & Co. McClellan's Sheep Dip.....	....	12.93	....	18.34	12.00	8.50	....	....	58.13	....	Cal. Dept. Agr., Spec. Pub. 101, 73 (1930).
Mefford Chemical Co. Sheep Dip.....	....	3.50	....	....	10.00	9.20	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 51, 45 (1925).
Michel & Pelton Co., San Francisco, Cal. Cub Sheep Dip.....	....	13.00	....	7.31	10.00	4.00	....	....	74.29	....	Cal. Dept. Agr., Spec. Pub. 101, 73 (1930).
Michel & Pelton Co., San Francisco, Cal. Mapco Liquor Cresolis Compound U.S.P. ....	....	44.20	....	35.60	....	11.90	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 73 (1930).
Michel & Pelton Co., San Francisco, Cal. Mapco Sheep Dip.....	....	18.70	....	8.60	10.00	2.20	0.30	....	28.30	40.00	Cal. Dept. Agr., Spec. Pub. 75, 59 (1927).
Mona Motor Oil Co., Santa Paula, Cal. K. O. I. L. Creosote Stock Dip.....	20.00	13.66	....	20.83	8.00	8.20	....	....	55.16	....	Cal. Dept. Agr., Spec. Pub. 101, 74 (1930).
Mona Motor Oil Co., Santa Paula, Cal. Stock Dip.....	....	20.66	....	18.10	....	8.40	....	....	49.44	....	Cal. Dept. Agr., Spec. Pub. 101, 74 (1930).
Moorman Mfg. Co. Moor Mans Stock & Poultry Dip & Disinfectant <sup>8</sup> .....	....	23.12	....	30.20	8.00	8.20	0.16	36.99	....	....	Cal. Dept. Agr., Spec. Pub. 51, 44 (1925).

TABLE XXVI. PHENOL SOAP SOLUTIONS—Continued

Manufacturer or Distributor and Brand	Phenols		Soap		Water		Non-Soap Ash	Oils			Publication
	Guaranteed	Found	Guaranteed	Found	Guaranteed	Found		Total	Tar	Mineral	
	%	%	%	%	%	%	%	%	%	%	
H. K. Mulford Co. Krelon.....	....	28.70	....	13.70	10.00	9.00	1.80	....	45.60	....	Cal. Dept. Agr., Spec. Pub. 75, 59 (1927).
No-Vermo Mfg. Co. Sol-o-cree <sup>9</sup> .....	....	6.00	....	18.80	10.00	9.80	0.40	63.20	....	....	Cal. Dept. Agr., Spec. Pub. 51, 45 (1925).
The Owl Drug Co. The Owl Sheep Dip..	....	20.00	....	14.20	10.00	8.00	1.50	....	55.70	....	Cal. Dept. Agr., Spec. Pub. 75, 59 (1927).
Pacific Chemical Co., Los Angeles, Cal. Licresol.....	50.00	50.75	....	....	....	21.20	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 51, 43 (1925).
Parke, Davis & Co., Detroit, Mich. Kreso Dip No. 1.....	....	22.55	....	20.80	8.00	8.60	2.65	....	44.60	....	Cal. Dept. Agr., Spec. Pub. 75, 59 (1927).
Polk Miller Products Corp. Sergeant's Disinfectant.....	....	22.10	....	23.00	10.00	9.00	0.70	....	42.60	....	Cal. Dept. Agr., Spec. Pub. 75, 59 (1927).
Pratt Food Co. Pratt's Dip and Disinfectant.....	9.50	9.20	....	15.50	10.00	8.00	0.30	....	64.90 <sup>10</sup>	....	Cal. Dept. Agr., Spec. Pub. 75, 59 (1927).
Pratt Food Co. Pratt's Disinfectant.....	....	25.94	....	20.50	10.00	6.67	....	....	44.65	....	Cal. Dept. Agr., Spec. Pub. 101, 74 (1930).
Purity Chemical Products Co. Composal.....	....	51.16	....	21.43	20.00	19.40	....	....	7.69	....	Cal. Dept. Agr., Spec. Pub. 101, 74 (1930).
W. T. Rawleigh Co., Oakland, Cal. Rawleigh's Stock Dip and Disinfectant.....	....	16.40	....	17.90	8.00	8.40	1.20	....	54.30	....	Cal. Dept. Agr., Spec. Pub. 75, 59 (1927).
Ansel W. Robinson, San Francisco, Cal. Robinson's Red Label Sheep Dip.....	....	20.12	....	9.41	10.00	2.00	0.07	....	65.40	....	Cal. Dept. Agr., Spec. Pub. 75, 59 (1927).
R. R. Rogers Chemical Co., San Francisco, Cal. Arcol.....	50.00	51.85	20.00	19.78	25.00	22.25	0.09	....	5.34	....	Cal. Dept. Agr., Spec. Pub. 75, 59 (1927).

R. R. Rogers Chemical Co., San Francisco, Cal. Ravol.....	50.00	43.50	20.00	21.50	27.00	24.01	0.63	....	8.40	....	Cal. Dept. Agr., Spec. Pub. 75, 59 (1927).
R. R. Rogers Chemical Co., San Francisco, Cal. Vermol.....	50.00	50.50	20.00	22.80	25.00	19.90	0.68	....	4.79	....	Cal. Dept. Agr., Spec. Pub. 75, 59 (1927).
R. R. Rogers Chemical Co., Santa Cruz, Cal. Sheep Dip.....	....	22.66	....	11.40	15.00	4.50	....	....	32.42	24.60	Cal. Dept. Agr., Spec. Pub. 101, 74 (1930).
R. R. Rogers Chemical Co., Santa Cruz, Cal. U.S.P. Liquor Cresolis Compound <sup>11</sup>	....	50.10	....	29.50	18.00	14.90	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 74-75 (1930).
Scott & Gilbert Co., Arcata, Cal. S. & G. Sheep Dip.....	....	13.87	....	14.16	10.00	8.75	....	....	61.23	....	Cal. Dept. Agr., Spec. Pub. 101, 75 (1930).
The Shaw-Batcher Co. Capital Sheep Dip and Cattle Wash <sup>12</sup> .....	....	....	....	....	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 59 (1927).
The Sherwin-Williams Co., Cleveland, O. Phenolene <sup>13</sup> .....	....	15.20	....	21.10	10.00	8.40	0.23	54.31	....	....	Cal. Dept. Agr., Spec. Pub. 51, 45 (1925).
The Sherwin-Williams Co., Cleveland, O. Sherwin-Williams Pheno-Dip.....	....	13.67	....	24.10	8.00	8.00	....	....	52.13	....	Cal. Dept. Agr., Spec. Pub. 101, 75 (1930).
The Sherwin-Williams Co., Cleveland, O. S. W. Sheep Dip.....	....	10.40	....	22.10	10.00	10.00	0.10	....	55.30	....	Cal. Dept. Agr., Spec. Pub. 75, 60 (1927).
Small's Seed Co., Riverside, Cal. Small's Dip and Disinfectant.....	....	25.33	....	27.40	8.00	7.80	....	....	36.19	....	Cal. Dept. Agr., Spec. Pub. 101, 75 (1930).
Southern California Disinfecting Co., Los Angeles, Cal. Nuc-Oleum.....	....	9.33	....	17.53	10.00	10.20	....	....	62.35	....	Cal. Dept. Agr., Spec. Pub. 101, 75 (1930).
Spratt's Patent, Ltd., San Francisco, Cal. Spratt's Dip.....	....	23.70	....	20.80	10.00	8.00	2.90	....	43.80	....	Cal. Dept. Agr., Spec. Pub. 75, 60 (1927).
United Drug Co. No. 6 Disinfectant.....	....	29.40	....	14.70	10.00	7.80	2.20	....	45.40	....	Cal. Dept. Agr., Spec. Pub. 75, 60 (1927).
Geo. Z. Wait Co. Dr. G. Z. Wait's Sheep Dip.....	15.00	13.70	....	21.40	....	10.20	0.10	....	52.20 <sup>14</sup>	....	Cal. Dept. Agr., Spec. Pub. 75, 60 (1927).
G. Z. Wait, Sacramento, Cal. Sheep Dip	15.00	14.20	....	21.20	....	9.60	....	51.10 <sup>15</sup>	....	....	Cal. Dept. Agr., Spec. Pub. 58, 46 (1925).
Water Bros., Inc., Oakland, Cal. Liquor Cresolis Compound.....	40.00	45.50	....	34.10 <sup>16</sup>	28.00	17.00	0.50	....	1.80	....	Cal. Dept. Agr., Spec. Pub. 75, 60 (1927).
Water Bros., Inc., Oakland, Cal. Sheep Dip	....	21.40	....	6.90	10.00	3.20	0.20	....	28.10	....	Cal. Dept. Agr., Spec. Pub. 75, 60 (1927).
J. R. Watkins Co., Oakland, Cal. Watkin's Germicide Dip and Disinfectant.....	18.00	17.40	24.40	22.70	....	8.40	1.40	....	49.00 <sup>17</sup>	....	Cal. Dept. Agr., Spec. Pub. 75, 60 (1927).

TABLE XXVI. PHENOL SOAP SOLUTIONS—Continued.

Manufacturer or Distributor and Brand	Phenols		Soap		Water		Non-S de Ash	Oils			Publication
	Guaranteed	Found	Guaranteed	Found	Guaranteed	Found		Total	Tar	Mineral	
Western Wholesale Drug Co., Los Angeles, Cal. Imperial Sheep Dip.....	....	11.00	....	12.03	10.00	8.60	....	....	66.89	....	Cal. Dept. Agr., Spec. Pub. 101, 75 (1930).
Western Wholesale Drug Co., Los Angeles, Cal. Solution of Cresol.....	50.00	48.30	....	....	....	19.20	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 51, 43 (1925).
West Disinfecting Co., San Francisco, Cal. Carco Natholeum Dip.....	....	12.50	....	21.80	10.00	10.40	1.80	....	51.60	....	Cal. Dept. Agr., Spec. Pub. 75, 60 (1927).
West Disinfecting Co., San Francisco, Cal. Karspray.....	....	47.00	....	21.40	25.00	21.40	....	3.65	....	....	Cal. Dept. Agr., Spec. Pub. 66, 33 (1926).
West Disinfecting Co., San Francisco, Cal. Licresolis.....	....	55.63	....	....	15.00	13.20	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 51, 43 (1925).
Williams & Moore. W. & M. Antiseptic Sheep Dip.....	....	18.10	....	....	15.00	8.00	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 51, 44 (1925).
Worrell Mfg. Co., Fontana, Cal. Worrell's Crespolin.....	....	44.50	....	35.51	18.00	14.20	....	....	0.62	....	Cal. Dept. Agr., Spec. Pub. 101, 75 (1930).

<sup>1</sup> Found to be a creolin preparation.  
<sup>2</sup> Contains rosin. Baumé gravity of oil, 3.10. Unsulphonated, trace.  
<sup>3</sup> Guaranteed 54.40 percent.  
<sup>4</sup> Guaranteed 36.60 percent.  
<sup>5</sup> Guaranteed 53.00 percent.  
<sup>6</sup> Guaranteed 65.00 percent.  
<sup>7</sup> Contains rosin. Baumé gravity of oil, 2.95. Unsulphonated, 1.80 percent.  
<sup>8</sup> Contains rosin. Baumé gravity of oil, 3.70. Unsulphonated, trace.  
<sup>9</sup> Contains rosin. Baumé gravity of oil, 22.4. Unsulphonated, 39.90 percent.  
<sup>10</sup> Guaranteed 55.00 percent.  
<sup>11</sup> Cresols guaranteed 50.00 percent; found, 37.10 percent.  
<sup>12</sup> Emulsion broken. Not analyzed.  
<sup>13</sup> Contains rosin.  
<sup>14</sup> Guaranteed 55.00 percent.  
<sup>15</sup> Baumé gravity 2.95; unsulphonated 1.80 percent.  
<sup>16</sup> Includes 32.00 percent olive and other oils.  
<sup>17</sup> Guaranteed 49.30 percent.



TABLE XXVII. PHOSPHORUS PREPARATIONS

Manufacturer or Distributor and Brand	Free Phosphorus		Publication
	Guaranteed	Found	
	%	%	
American Druggists Syndicate. A.D.S. Rat and Roach Paste.....	2.00	1.90	Cal. Dept. Agr., Spec. Pub. 75, 47 (1927).
Buffalo Specialty Co. Rat Nip.....	2.50	1.20	Cal. Dept. Agr., Spec. Pub. 75, 47 (1927).
B. E. Cole, Hollister, Cal. Squirrel Poison-Phosphorus <sup>1</sup> .....	0.90	0.026	Cal. Dept. Agr., Spec. Pub. 51, 52 (1925).
Common Sense Mfg. Co. Common Sense Rat Exterminator.....	2.00	1.59	Cal. Dept. Agr., Spec. Pub. 58, 41 (1925).
The DePree Co., San Francisco, Cal. Pied Piper Rat and Roach Paste.....	2.00	1.30	Cal. Dept. Agr., Spec. Pub. 75, 47 (1927).
Eastern Drug Co., Boston, Mass. Barn- ard & Co.'s Reliable Water Bug and Roach Paste.....	2.00	2.02	Maine Agr. Expt. Sta., Official Inspections 134, 114 (1929).
C. W. Hill Chemical Co., Los Angeles, Cal. Rat Poison (Mission) <sup>2</sup> .....	....	0.60	Cal. Dept. Agr., Spec. Pub. 51, 52, (1925).
Hudelson & Damrell, Modesto, Cal. Gold Crown Poison.....	5.00	8.53	Cal. Dept. Agr., Spec. Pub. 75, 47 (1927).
Hudelson & Damrell, Modesto, Cal. Gold Crown Poison Barley <sup>3</sup> .....	....	0.07	Cal. Dept. Agr., Spec. Pub. 66, 35 (1926).
Liquid Veneer Corp., Buffalo, N. Y. Rat-Nip.....	1.18	1.22	Maine Agr. Expt. Sta., Official Inspections 134, 116 (1929).
H. K. Mulford Co. Mulford Phosphorus Paste.....	2.00	2.34	Cal. Dept. Agr., Spec. Pub. 75, 47 (1927).
Nyal Co., San Francisco, Cal. Sure Kill Rat and Roach Paste.....	1.50	1.58	Cal. Dept. Agr., Spec. Pub. 75, 47 (1927).
The Rat Biscuit Co. Rat Bis-Kit Paste	2.00	2.28	Cal. Dept. Agr., Spec. Pub. 75, 47 (1927).
The Rat-Mum Co. Rat-Mum.....	0.20	0.11	Cal. Dept. Agr., Spec. Pub. 58, 41 (1925).
Stearns' Electric Paste Co. Stearns' Electric Rat and Roach Paste.....	1.50	2.16	Cal. Dept. Agr., Spec. Pub. 75, 47 (1927).
United Drug Co. Elkay's Rat and Roach Paste.....	2.00	1.73	Cal. Dept. Agr., Spec. Pub. 75, 47 (1927).
Youell's Exterminating Co., Westfield, N. J. Youell's Rat Snap <sup>4</sup> .....	3- <sup>12</sup> / <sub>16</sub>	0.63	Cal. Dept. Agr., Spec. Pub. 51, 52 (1925).
Zeno Products, Inc., New York, N. Y. Zeno.....	2.00	0.11	Cal. Dept. Agr., Spec. Pub. 51, 52 (1925).

<sup>1</sup> Manufacture discontinued.<sup>2</sup> Guaranteed 97.00 percent inert matter (honey). Manufacture discontinued.<sup>3</sup> No potassium cyanide found.<sup>4</sup> Guaranteed hydrocyanic acid 5/16 percent; hydrochloric acid 5/16 percent; hydrofluoric acid 5/16 percent; "vertigrese," blue stone and water 1 4/16 percent; lard, molasses, flour and corn meal 94 1/16 percent. No hydrocyanic, hydrochloric or hydrofluoric acids or copper found.

TABLE XXVIII. PYRETHRUM

Manufacturer or Distributor and Brand	Oil	Moisture	Organic Matter	Ash	Ether Extract	Publication
	%	%	%	%	%	
Buhach Producing and Manufacturing Co., Fresno, Cal. Buhach Insect Powder.....	6.27 <sup>1</sup>	5.60	87.56	6.86	....	Cal. Dept. Agr., Spec. Pub. 101, 76 (1930).
Furst McNess Co., Oakland, Cal. F. W. McNess Insect Powder.....	5.02	6.42	87.66	5.92	....	Cal. Dept. Agr., Spec. Pub. 101, 76 (1930).
The Holmerden Co., Stratford, Conn. O-Bit Insect Powder <sup>2</sup> .....	.....	.....	.....	.....	.....	Maine Agr. Expt. Sta., Official Inspections 134, 115 (1929).
E. A. Murray Co., Detroit, Mich. Bug-Ant Doom <sup>3</sup> .....	.....	.....	.....	.....	.....	Maine Agr. Expt. Sta., Official Inspections 134, 114 (1929).
Purity Chemical Co., Santa Rosa, Cal. Hi-Test Pyrethrum Insect Powder.....	5.86	7.20	86.20	6.60	....	Cal. Dept. Agr., Spec. Pub. 101, 76 (1930).
W. T. Rawleigh Co., Oakland, Cal. Rawleigh's Insect Powder.....	.....	.....	.....	6.80	9.00	Cal. Dept. Agr., Spec. Pub. 75, 63 (1927).
Rochester Germicide Co., Rochester, N. Y. Extermo Roach Powder <sup>4</sup> .....	.....	.....	63.56 <sup>5</sup>	36.44	....	Maine Agr. Expt. Sta., Official Inspections 146, 138 (1932).

<sup>1</sup> Guaranteed 6.00 percent.

<sup>2</sup> Guaranteed active ingredients 100 percent; found to be pyrethrum.

<sup>3</sup> Found to be pyrethrum.

<sup>4</sup> Guaranteed sodium sulphate, sodium chloride, sodium carbonate, silicious matter present; preparation found to react like pyrethrum powder.

<sup>5</sup> Includes volatile matter.

TABLE XXIX. SOAP

Manufacturer or Distributor and Brand	Soap				Water		Total Alkali	Sodium Carbonate	Non-Soap Ash	Publication
	Total		Rosin Soap	Fish Oil Soap	Guaranteed	Found				
	Guaranteed	Found								
Acme White Lead & Color Works. Acme Fish Oil Spray Soap.....	75.00	84.80	....	....	25.00	10.00	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 68 (1930).
Acme White Lead & Color Works. Acme Spray Soap.....	70.00	70.31	....	....	30.00	10.00	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 68 (1930).
California Pest Control Co. Calpest Whale Oil..	....	24.86	....	....	....	69.33	2.53	....	....	Cal. Dept. Agr., Spec. Pub. 75, 54 (1927).
California Spray Chemical Co., Watsonville, Cal. Ortho Liquid.....	....	13.70	....	....	67.00	78.40	....	....	1.10	Cal. Dept. Agr., Spec. Pub. 58, 46 (1925).
California Spray Chemical Co., Watsonville, Cal. Ortho Whale Oil.....	30.00	30.80	....	....	....	61.60	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 54 (1927).
Roy E. Campbell, Alhambra, Cal. Citrus Washing Powder <sup>1</sup> .....	....	20.80	....	....	....	35.25	....	42.40	....	Cal. Dept. Agr., Spec. Pub. 34, 59 (1923).
Clipper Chemical Co., Los Angeles, Cal. Clipper Brand Original Fish Oil Soap Flakes.....	84.00	72.80	....	....	....	5.80	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 68 (1930).
Export Soap Co., Los Angeles, Cal. E. S. C. Condensed Rosin Potash Spray Paste Form.....	....	71.90	....	....	35.00	26.00	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 68 (1930).
Export Soap Co., Los Angeles, Cal. E. S. C. Whale Oil.....	....	25.20	....	....	70.00	72.30	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 68 (1930).
General Chemical Co., New York, N. Y. Fish Oil <sup>2</sup>	....	....	....	....	....	....	....	....	....	Conn. Agr. Expt. Sta., Bul. 242, 160 (1922).

<sup>1</sup> Footnotes at the end of table.



TABLE XXIX. SOAP—Continued

Manufacturer or Distributor and Brand	Soap				Water		Total Alkali	Sodium Carbonate	Non-Soap Ash	Publication
	Total		Rosin Soap	Fish Oil Soap	Guaranteed	Found				
	Guaranteed	Found								
Germain Seed & Plant Co., Los Angeles, Cal. Germain Fish Oil <sup>3</sup> .....	....	71.20	none	71.20	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 51, 40 (1925).
Germain Seed & Plant Co., Los Angeles, Cal. Germain's Rosin Wash.....	....	34.70	6.10	28.60	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 51, 40 (1925).
Interstate Chemical Co., Jersey City, N. J. Key Brand Fish Oil.....	50.00	53.79	....	....	....	....	....	....	....	Maine Agr. Expt. Sta., Official Inspections 134, 115 (1929).
Langley & Michaels Co. Hard Fish Oil <sup>4</sup> .....	64.40	39.60	....	....	35.60	29.60	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 54 (1927).
Manufacturer unknown. Lennox Tobacco <sup>5</sup> .....	....	....	....	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 47 (1923).
Manufacturer unknown. Potassium Oleate Solution <sup>6</sup>	40.00	34.40	....	....	60.00	58.20	....	....	0.61	Conn. Agr. Expt. Sta., Bul. 346, 259 (1933).
Michel & Pelton Co., San Francisco, Cal. Mapco Liquid Whale Oil.....	....	24.30	....	....	75.00	74.00	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 68 (1930).
Michel & Pelton Co., San Francisco, Cal. Mapco Rosin Soap for Spray.....	....	....	43.30	18.30	....	....	....	7.70	....	Cal. Dept. Agr., Spec. Pub. 51, 40 (1925).
Michel & Pelton Co., San Francisco, Cal. Mapco Whale Oil.....	....	53.30	....	....	40.00	43.40	0.53	....	....	Cal. Dept. Agr., Spec. Pub. 75, 54 (1927).
Miller Products Co., Portland, Oreg. Whale Oil..	60.00	57.90	....	....	....	....	....	....	....	Oreg. Agr. Expt. Sta., Cir. 84, 15 (1927).
Mt. Hood Soap Co., Portland, Oreg. Whale Oil..	58.50	64.80	....	....	....	....	....	....	....	Oreg. Agr. Expt. Sta., Cir. 95, 19 (1929).

Chas. C. Navlet Co., Oakland, Cal. Liquid Whale Oil.....	25.00	27.50	....	....	....	72.00	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 68 (1930).
Pacific Soap Co. P. S. C. Condensed Rosin Spray..	55.00	53.36	....	....	....	33.70	11.087	....	....	Cal. Dept. Agr., Spec. Pub. 75, 54 (1927).
Pacific Soap Co. P. S. C. Condensed Rosin Spray..	65.00	46.10	....	....	....	35.75	14.20	....	....	Cal. Dept. Agr., Spec. Pub. 75, 54 (1927).
Pacific Soap Co. P. S. C. Condensed Rosin Spray..	....	52.00	....	....	40.00	31.74	12.51	....	....	Cal. Dept. Agr., Spec. Pub. 75, 54 (1927).
Pacific Soap Co. P. S. C. Fish Oil.....	75.00	76.35	....	....	....	16.67	4.37	....	....	Cal. Dept. Agr., Spec. Pub. 75, 55 (1927).
Perfecto Spray Mfg. Co., Los Angeles, Cal. Perfecto Rosin Paste.....	....	58.25	....	....	36.00	35.10	....	....	3.99	Cal. Dept. Agr., Spec. Pub. 58, 46 (1925).
San José Soap Works, San José, Cal. Whale Oil...	....	25.90	....	....	....	74.10	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 59 (1923).
Standard Oil Co. of New Jersey. Sulfo-Ammonium	....	....	....	....	....	43.20	....	....	....	Conn. Agr. Expt. Sta., Sample 8694.
Sun-Bau Laboratories, Portland, Oreg. Clensel...	32.10	30.40	....	....	....	....	....	....	....	Oreg. Agr. Expt. Sta., Cir. 84, 15 (1927).
J. B. Williams Co., Glastonbury, Conn. No. 30 <sup>8</sup> ..	....	67.57	....	....	....	30.97	6.56	0.15	0.95	Conn. Agr. Expt. Sta., Bul. 300, 346 (1929).
Williams & Moore, Stockton, Cal. Williams & Moore Spray.....	....	79.10	....	....	....	18.50	....	....	1.10	Cal. Dept. Agr., Spec. Pub. 66, 46 (1926).

<sup>1</sup> Trace of phosphate present.

<sup>2</sup> Two samples of this soap were examined only to see whether they were potassium or sodium soaps. One was a sodium soap, the other chiefly potassium soap

<sup>3</sup> Glycerine 4.21 percent.

<sup>4</sup> Oils 24.90 percent.

<sup>5</sup> No nicotine found.

<sup>6</sup> Free potassium hydroxide 1.39 percent; potassium carbonate 2.97 percent.

<sup>7</sup> Alkali guaranteed 10.00 percent.

<sup>8</sup> Free oleic acid 0.63 percent; sodium chloride 0.46 percent

TABLE XXX. SODIUM FLUORIDE

Manufacturer or Distributor and Brand	Sodium Fluoride		Publication
	Guaranteed	Found	
Barrett Chemical Co., Brooklyn, N. Y. Barrett's Roachsault....	50.00	54.30	Maine Agr. Expt. Sta., Official Inspections 138, 106 (1930).
Brunswig Drug Co.....	....	93.70	Cal. Dept. Agr., Spec. Pub. 51, 59 (1925).
Burrell-Dugger Co. Talcimized.....	65.00	70.17	Cal. Dept. Agr., Spec. Pub. 75, 62 (1927).
Coffin-Redington Co., Monterey, Cal.....	95.00	97.55	Cal. Dept. Agr., Spec. Pub. 101, 78 (1930).
General Chemical Co., San Francisco, Cal.....	....	94.30	Oreg. Agr. Expt. Sta., Cir. 106, 22 (1931).
The Insecticide Co., San Francisco, Cal. Preparation No. 3 <sup>1</sup> ....	....	93.27	Cal. Dept. Agr., Spec. Pub. 75, 63 (1927).
C. U. McClellan & Co. McClellan's.....	95.50	95.31	Cal. Dept. Agr., Spec. Pub. 75, 62 (1927).
C. U. McClellan & Co. McClellan's Delousing Grease.....	50.00	53.44	Cal. Dept. Agr., Spec. Pub. 101, 78 (1930).
Mefford Chemical Co.....	90.00	97.56	Cal. Dept. Agr., Spec. Pub. 75, 62 (1927).
Montgomery, Ward & Co., Portland, Oreg.....	65.00	98.60	Oreg. Agr. Expt. Sta., Cir. 84, 15 (1927).
William Peterman, Inc., New York, N. Y. Peterman's Roach Food	40-50	56.16	Maine Agr. Expt. Sta., Official Inspections 134, 116 (1929).
Scott & Gilbert Co. S. & G. Poultry Lice Powder.....	90.00	96.58	Cal. Dept. Agr., Spec. Pub. 75, 62 (1927).
Southern California Disinfecting Co., Los Angeles, Cal. Ant Powder <sup>2</sup>	....	80.41	Cal. Dept. Agr., Spec. Pub. 101, 79 (1930).
Stanton Milling & Sales Co. Stanlas.....	95.00	98.53	Cal. Dept. Agr., Spec. Pub. 101, 79 (1930).
Stanton Milling & Sales Co. Stanlas Sodium Fluoride Lice Control	....	92.72	Cal. Dept. Agr., Spec. Pub. 101, 79 (1930).
West Disinfecting Co., New York, N. Y. Cidol Roach Powder....	83.00	88.44	Maine Agr. Expt. Sta., Official Inspections 142, 120 (1931).

<sup>1</sup> Ash found 5.40 percent; "inert fossil flour" guaranteed 7.60 percent.<sup>2</sup> Organic matter 8.82 percent.

TABLE XXXI. STRYCHNINE PREPARATIONS

Manufacturer or Distributor and Brand	Strychnine		Publication
	Guaranteed	Found	
G. H. Benedict and Co. O. K. Squirrel Poison <sup>1</sup> .....	0.40	0.17	Cal. Dept. Agr., Spec. Pub. 75, 46 (1927).
Brunswig Drug Co., Los Angeles, Cal. Gopher Bane.....	.....	0.64	Cal. Dept. Agr., Spec. Pub. 101, 42 (1930).
Brunswig Drug Co., Los Angeles, Cal. Squirrel Annihilator.....	.....	0.28	Cal. Dept. Agr., Spec. Pub. 101, 42 (1930).
California Spray Chemical Co., Watson- ville, Cal. Ortho Gopher Poison.....	90.00	89.60	Cal. Dept. Agr., Spec. Pub. 75, 46 (1927).
California Spray Chemical Co., Watson- ville, Cal. Ortho Penetrating Poisoned Barley.....	0.3125	0.443	Cal. Dept. Agr., Spec. Pub. 66, 27 (1926).
California Spray Chemical Co., Watson- ville, Cal. Ortho Penetrating Poisoned Barley.....	0.3129	0.38	Cal. Dept. Agr., Spec. Pub. 66, 27 (1926).
Coffin-Redington Co., Noxem Squirrel and Gopher Poison.....	0.30	0.29	Cal. Dept. Agr., Spec. Pub. 75, 46 (1927).
B. E. Cole, Hollister, Cal. County Farm Bureau Mixture <sup>2</sup> .....	.....	0.55	Cal. Dept. Agr., Spec. Pub. 51, 51 (1925).
Diamond Milling Co., Livermore, Cal. Poisoned Barley.....	0.41	0.33	Cal. Dept. Agr., Spec. Pub. 58, 38 (1925).
Herbert F. Dugan. Poisoned Barley....	0.25	0.26	Cal. Dept. Agr., Spec. Pub. 75, 46 (1927).
Herbert F. Dugan. Strychnine Alkaloid .....	.....	99.66	Cal. Dept. Agr., Spec. Pub. 75, 46 (1927).
Dupins Chemical Co., Fort Dodge, Ia. Gopher-Get-er <sup>3</sup> .....	.....	0.310	Cal. Dept. Agr., Spec. Pub. 34, 53 (1923).
Dupuis Chemical Co. Gopher-Go.....	0.25	0.37	Cal. Dept. Agr., Spec. Pub. 75, 46 (1927).
Fort Dodge Chemical Co., Fort Dodge, Ia. Gopher Death <sup>4</sup> .....	.....	0.35	Cal. Dept. Agr., Spec. Pub. 34, 53 (1923).
Germain Seed & Plant Co., Los Angeles, Cal. Go-For-Gopher <sup>5</sup> .....	0.31	0.05	Cal. Dept. Agr., Spec. Pub. 51, 51 (1925).
Germain Seed & Plant Co., Los Angeles, Cal. Go-For-Gopher <sup>5</sup> .....	31.00	0.15	Cal. Dept. Agr., Spec. Pub. 51, 51 (1925).
Kirk-Geary Co., Sacramento, Cal. Capital Squirrel Poison.....	0.24	0.23	Cal. Dept. Agr., Spec. Pub. 58, 38 (1925).
Kirk-Geary Co., Sacramento, Cal. Dead Shot Squirrel & Gopher Killer..	0.25	0.25	Cal. Dept. Agr., Spec. Pub. 58, 38 (1925).
Kirk-Geary Co., Sacramento, Cal. Dead Shot Squirrel & Gopher Killer..	0.24	0.21	Cal. Dept. Agr., Spec. Pub. 58, 38 (1925).
Langley & Michaels Co., San Francisco, Cal. Hall's Lightning Squirrel and Gopher Poison.....	0.347 <sup>6</sup>	0.32 <sup>6</sup>	Cal. Dept. Agr., Spec. Pub. 66, 28 (1926).
Langley & Michaels Co., San Francisco, Cal. Hall's Lightning Squirrel and Gopher Poison.....	0.32 <sup>6</sup>	0.30 <sup>6</sup>	Cal. Dept. Agr., Spec. Pub. 66, 28 (1926).

<sup>1</sup> Footnotes on page 742.

TABLE XXXI. STRYCHNINE PREPARATIONS—Concluded

Manufacturer or Distributor and Brand	Strychnine		Publication
	Guaranteed	Found	
John F. Leinen Chemical Co., San Francisco, Cal. Leinen's Poisoned Barley . .	0.3125	0.449	Cal. Dept. Agr., Spec. Pub. 66, 28 (1926).
John F. Leinen Chemical Co., San Francisco, Cal. Leinen's Poisoned Barley . .	0.40625	0.36	Cal. Dept. Agr., Spec. Pub. 66, 28 (1926).
John F. Leinen Chemical Co., San Francisco, Cal. Morse's Gopher Poison . . . .	0.3125	0.27	Cal. Dept. Agr., Spec. Pub. 75, 46 (1927).
John F. Leinen Chemical Co., San Francisco, Cal. O-Kay Gopher Poison . . . .	0.25	0.23	Cal. Dept. Agr., Spec. Pub. 75, 46 (1927).
John F. Leinen Chemical Co., San Francisco, Cal. O-Kay Poisoned Wheat . . . .	0.25	0.24	Cal. Dept. Agr., Spec. Pub. 58, 39 (1925).
John F. Leinen Chemical Co. Strychnine Alkaloid Roche . . . . .	....	99.06	Cal. Dept. Agr., Spec. Pub. 101, 42 (1930).
Long & Gretter, Monterey, Cal. Long and Gretter's Squirrel Poison . . . . .	0.20	0.324	Cal. Dept. Agr., Spec. Pub. 66, 28 (1926).
Aug. Marschall, Max, N. Dak. Poisoned Oats . . . . .	....	0.164 <sup>7</sup>	N. Dak., Bul. 42, 120 (1934).
W. G. Reardon Laboratories, Fresno, Cal. Mouse Seed . . . . .	....	0.36	Cal. Dept. Agr., Spec. Pub. 101, 42 (1930).
Roy Specialty Co. El Roy Gopher Poison <sup>8</sup> . . . . .	....	0.25	Cal. Dept. Agr., Spec. Pub. 51, 51 (1925).
Scott & Gilbert Co., San Francisco, Cal. Cespi Poisoned Barley . . . . .	0.30	0.288	Cal. Dept. Agr., Spec. Pub. 66, 28 (1926).
Scott & Gilbert Co., San Francisco, Cal. Cespi Poisoned Wheat . . . . .	0.30	0.33	Cal. Dept. Agr., Spec. Pub. 75, 46 (1927).
Stover, Gibbs & Winsel. El Rey Gopher Poison . . . . .	0.31	0.32	Cal. Dept. Agr., Spec. Pub. 101, 42 (1930).
Valker-Christensen Co., Minot, N. Dak. Gopher Poison . . . . .	....	0.229	N. Dak., Bul. 42, 119 (1934).
Geo. Z. Wait Co. Wait's Squirrel and Gopher Poison <sup>9</sup> . . . . .	0.20	0.21	Cal. Dept. Agr., Spec. Pub. 58, 40 (1925).
Western Wholesale Drug Co. Poisoned Barley . . . . .	0.27	0.26	Cal. Dept. Agr., Spec. Pub. 101, 42 (1930).
W. M. Willett, San Francisco, Cal. Wakelee's Squirrel & Gopher Poison . . . . .	0.25	0.61	Cal. Dept. Agr., Spec. Pub. 58, 40 (1925).
Williams & Moore. Moore's Prepared Squirrel Poison . . . . .	0.32	0.33	Cal. Dept. Agr., Spec. Pub. 75, 46 (1927).
C. G. Woods Chemical Co. Gopher Scent . . . . .	0.20	0.30	Cal. Dept. Agr., Spec. Pub. 75, 46 (1927).
C. G. Woods Chemical Co. Rat Scent . . . . .	0.20	0.29	Cal. Dept. Agr., Spec. Pub. 75, 46 (1927).

<sup>1</sup> Cyanide, guaranteed 0.10 percent; found trace.<sup>2</sup> Sample is poisoned wheat sweetened with saccharin.<sup>3</sup> Sample is a poisoned mixture of raisins and figs.<sup>4</sup> Tablets sweetened with sugar and having an odor of anise<sup>5</sup> Sample is poisoned raisins.<sup>6</sup> Strychnine sulphate.<sup>7</sup> Strychnine hydrochloride.<sup>8</sup> Sample is a mixture of poisoned raisins, wheat, etc.<sup>9</sup> Arsenic guaranteed 0.75 percent; found 0.57 percent.

TABLE XXXII. SULPHUR

Manufacturer or Distributor and Brand	Sulphur		Water	Ash	Acidity as Sulphuric Acid	Type	Fineness			Publication
	Guaranteed	Found					100 Mesh	200 Mesh	300 Mesh	
Acme White Lead & Color Works, Detroit Mich. Acme Dusting <sup>1</sup> .....	90.00	92.42	....	....	....	....	....	....	....	Maine Agr. Expt. Sta., Official Inspections 142, 118 (1931).
Ansbacher-Siegle Corp., New York, N. Y. Ansbacher's Sulcoloid.....	95.00	97.27	....	....	....	....	....	....	....	N. J. Agr. Expt. Sta., Bul. 594, 7 (1935).
Batelle & Rennick, New York, N. Y.....	99.50	99.70	....	....	....	....	97.2	43.5	14.5	N. J. Agr. Expt. Sta., Bul. 459, 8 (1927).
Bowker Chemical Co., New York, N. Y. Bowker's Sulfrox Wettable.....	99.00	98.32	....	....	....	....	....	....	....	N. J. Agr. Expt. Sta., Bul. 556, 9 (1933).
Braun-Knecht-Heimann Co., San Francisco, Cal. Powder.....	100.00	99.85	0.10	....	0.05	Sublimed	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 23 (1930).
Cabco Supply Stores, Fresno, Cal. Cabco..	92.00	93.50	....	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 28 (1927).
Cabco Supply Stores, Fresno, Cal. Cabco Flour.....	90.00	91.40 <sup>2</sup>	....	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 28 (1927).
Cabco Supply Stores, Fresno, Cal. Golden Glow Sublimed.....	100.00	99.85	0.10	....	0.05	Sublimed	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 23 (1930).
Cabco Supply Stores, Fresno, Cal. Lincoln	98.00	98.15	0.20	0.90	0.05	Ground	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 23 (1930).
California Associated Buyers Co., Fresno- Selma, Cal. "Lilly".....	100.00	99.86	0.12	0.02	....	Sublimed	....	....	....	Cal. Dept. Agr., Spec. Pub. 58, 23 (1925).
California Rex Spray Co., Watsonville, Cal. Rex Sulfur Paste.....	46.00	48.92	....	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 57 (1923).
California Rex Spray Co., Watsonville, Cal. Rex-Sul-Powder.....	94.00	94.30	0.40	1.30	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 23 (1930).



TABLE XXXII. SULPHUR—Continued

Manufacturer or Distributor and Brand	Sulphur		Water	Ash	Acidity as Sulphuric Acid	Type	Fineness			Publication
	Guaranteed	Found					100 Mesh	200 Mesh	300 Mesh	
California Spray Chemical Co., Porterville, Cal. Del Monte Citrus.....	90.00	92.30	0.10	6.90	....	Ground	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 23 (1930).
California Spray Chemical Co., Watsonville, Ortho.....	99.00	99.48	0.45	0.08	....	Milled	....	....	....	Cal. Dept. Agr., Spec. Pub. 58, 23 (1925).
California Spray Chemical Co., Watsonville, Cal. Ortho Dusting.....	99.00	99.32	0.09	0.12	....	Milled	....	....	....	Cal. Dept. Agr., Spec. Pub. 58, 23 (1925).
California Spray Chemical Co., Watsonville, Cal. Ortho-Milled.....	85.00	87.29	....	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 26 (1923).
California Spray Chemical Co., Watsonville, Cal. Ortho Soil.....	....	99.50	0.33	0.10	....	Milled	....	....	....	Cal. Dept. Agr., Spec. Pub. 58, 23 (1925).
California Spray Chemical Co., Watsonville, Cal. Ortho Wettable.....	90.00	92.65	1.83	3.52	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 58, 23 (1925).
Camden Coke Plant, Camden, N. J. Flota- tion Sulfur Paste.....	35.00	37.87	54.86	....	....	....	....	....	....	N. J. Agr. Expt. Sta., Bul. 594, 7 (1935).
Central Chemical Co., Inc., Baltimore, Md. Cenco Superfine Sulfur Dust.....	74.00	78.63	....	....	....	....	....	....	....	N. J. Agr. Expt. Sta., Bul. 556, 9 (1933).
R. L. Cody. Ventilated.....	....	99.69	0.21	0.10	....	....	....	97.0	....	Cal. Dept. Agr., Spec. Pub. 34, 26 (1923).
Cooperative G.L.F. Mills, Inc., Buffalo, N. Y. G.L.F. Quality Dry Wettable.....	98.50	99.80	....	....	....	....	....	....	....	N. J. Agr. Expt. Sta., Bul. 577, 8 (1934).
D. F. De Bernardi & Co. L. Chambon Fils	100.00	99.88	0.12	none	....	Sublimed	....	....	....	Cal. Dept. Agr., Spec. Pub. 58, 23 (1925).
Farmers Co-Operative Assn., Trenton, N. J. Flowered.....	....	93.68	....	....	....	....	....	....	....	N. J. Agr. Expt. Sta., Bul. 485, 8 (1929).
F. A. Frazier Co. Frazier's B-7 Dusting...	100.00	99.67	0.21	0.12	....	Milled	....	95.0	....	Cal. Dept. Agr., Spec. Pub.

F. A. Frazier Co. Frazier's Dusting Sulphur B-6.....	90.00	91.62	0.22	8.16	.....	Milled	.....	.....	.....	51, 21 (1925). Cal. Dept. Agr., Spec. Pub. 58, 23 (1925).
Freeport Sulfur Co. Catalytic <sup>3</sup> .....	.....	68.30	.....	.....	.....	.....	.....	.....	.....	Conn. Agr. Expt. Sta., Sample 8693.
General Chemical Co., New York, N. Y. Orchard Brand Apple Dritomic.....	81.00	82.82	.....	.....	.....	.....	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 594, 7 (1935).
General Chemical Co., San Francisco, Cal. Orchard Brand Atomic.....	45.00	46.10	52.15	.....	.....	.....	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 75, 28 (1927).
General Chemical Co., San Francisco, Cal. Orchard Brand Dritomic.....	90.00	91.20	0.80	.....	.....	.....	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 75, 28 (1927).
Granucci Bros., San Francisco, Cal. Colum- bus Brand <sup>4</sup> .....	.....	97.15	.....	.....	.....	Milled	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 58, 23 (1925).
Granucci Bros., San Francisco, Cal. Colum- bus Sublimed.....	.....	99.40	0.33	0.28	.....	Sublimed	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 58, 23 (1925).
Granucci Bros., San Francisco, Cal. Colum- bus Ventilated.....	.....	99.70	0.14	0.16	.....	Milled	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 58, 23 (1925).
Grasselli Chemical Co., Inc., Cleveland, O. Grasselli Sulforon Wetttable.....	90.00	96.79	.....	.....	.....	.....	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 556, 9 (1933).
Grasselli Chemical Co., New York, N. Y. Grasselli Sulphuron.....	90.00	97.40	.....	.....	.....	.....	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 478, 8 (1928).
Herbert & Herbert, Inc., Perth Amboy, N. J. Square Brand H. & H. Colloidal..	45.00	55.22	.....	.....	.....	.....	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 459, 9 (1927).
Holland & Holland. XXXXX Brand Re- sublimed Flowers.....	100.00	99.50	0.30	0.20	.....	.....	.....	.....	.....	Cal. Dept. Agr., Spec. Pub. 75, 28 (1927).
Hood River Spray Co., Hood River, Oreg. Dry Mix.....	64.00	78.70	.....	.....	.....	.....	.....	.....	.....	Oreg. Agr. Expt. Sta., Cir. 95, 14 (1929).
E. M. Ives, Meriden, Conn.....	.....	92.47	0.28	6.35	.....	.....	.....	.....	99.6	Conn. Agr. Expt. Sta., Bul. 346, 264 (1933).
Koppers Products Co., Pittsburgh, Pa. Flotex.....	40.00	55.62	44.06	.....	.....	.....	.....	.....	.....	N. J. Agr. Expt. Sta., Bul. 530, 8 (1931).



TABLE XXXII. SULPHUR—Continued

Manufacturer or Distributor and Brand	Sulphur		Water	Ash	Acidity as Sulphuric Acid	Type	Fineness			Publication
	Guaranteed	Found					100 Mesh	200 Mesh	300 Mesh	
Koppers Products Co., Pittsburgh, Pa. Koppers Flotation.....	80.00	87.34	....	....	....	....	....	....	....	N. J. Agr. Expt. Sta., Bul. 594, 7 (1935).
Koppers Products Co., Pittsburgh, Pa. Koppers Flotation Sulfur (Thylax).....	55.00	47.41	50.00	....	....	....	....	....	....	N. J. Agr. Expt. Sta., Bul. 513, 7 (1930).
Koppers Products Co., Pittsburgh, Pa. Koppers Thylox Sulfur Cake.....	55.00	59.26	....	....	....	....	....	....	....	N. J. Agr. Expt. Sta., Bul. 485, 8 (1929).
Kutner-Goldstein Co. Fleur de Lis Soufre Sublimed Flowers.....	100.00	99.60	0.40	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 28 (1927).
D. Lima Bros. Co. Marca Fioristilla Ground	....	98.00	0.23	0.61	....	Milled	....	....	....	Cal. Dept. Agr., Spec. Pub. 58, 23 (1925).
Lucas-Kil-Tone Co., Vineland, N. J. Sulpho (Trick Sulfur).....	92.00	95.10	....	....	....	....	....	....	....	N. J. Agr. Expt. Sta., Bul. 513, 7 (1930).
Manufacturer unknown.....	....	91.10	....	....	....	....	99.7	91.4	53.6	Conn. Agr. Expt. Sta., Bul. 346, 264 (1933).
Manufacturer unknown.....	....	91.86	....	....	....	....	99.5	91.8	61.9	Conn. Agr. Expt. Sta., Bul. 346, 264 (1933).
Manufacturer unknown. Colloidal.....	....	36.30	....	....	....	....	....	....	....	Conn. Agr. Expt. Sta., Bul. 253, 371 (1924).
Manufacturer unknown. Superfine.....	....	....	....	....	....	....	....	....	100.0	Conn. Agr. Expt. Sta., Bul. 300, 355 (1929).
Mechling Bros. Chemical Co., Camden, N.J. Crown Brand Wettable.....	95.00	96.48	....	....	....	....	....	....	....	N. J. Agr. Expt. Sta. Bul. 594, 7 (1935).
Mechling Bros. Chemical Co., Camden, N.J. Mechling's Superfine Dusting.....	....	99.45	....	....	....	....	....	....	....	N. J. Agr. Expt. Sta., Bul. 548, 7 (1932).

Mechling Bros. Chemical Co., Camden, N.J. Sulfur Dust.....	....	99.50	....	....	....	....	....	99.0	24.6	9.2	N. J. Agr. Expt. Sta., Bul. 459, 8 (1927).
Meyer, Wilson & Co., San Francisco, Cal. Flowers of Sulphur K. R.....	99.00	99.10	0.90	....	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 28 (1927).
Montgomery, Ward & Co., Portland, Oreg. Dusting.....	98.50	96.20	....	....	....	....	....	....	....	....	Oreg. Agr. Expt. Sta., Cir. 95, 14 (1929).
Murphy Oil Co., East Whittier, Cal.....	....	99.73	0.27	none	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 26 (1923).
National Sulphur Co., Inc., New York, N.Y. Magnetic Spray Wettable.....	98.50	99.08	....	....	....	....	....	....	....	....	N. J. Agr. Expt. Sta., Bul. 594, 7 (1935).
Chas. C. Navlet Co., Berkeley, Cal. Neutral Brand Dusting.....	99.00	98.20	0.30	1.10	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 28 (1927).
Chas. C. Navlet Co., Berkeley, Cal. Neutral Sulphur, Superfine Flour.....	99.50	99.13	0.24	0.63	....	Milled	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 58, 23 (1925).
Niagara Sprayer & Chemical Co., Middle- port, N. Y. Kolofog.....	30.00	38.62	....	....	....	....	....	....	....	....	Maine Agr. Expt. Sta., Official Inspections 150, 121 (1933)
Niagara Sprayer & Chemical Co., Sebasto- pol, Cal. Niagara Aeroplane Dusting.....	98.00	99.00	0.20	0.80	....	Ground	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 24 (1930).
Niagara Sprayer & Chemical Co., Middle- port, N. Y. Niagara Dusting Sulfur. Sulfodust.....	93.00	92.40	....	....	....	....	....	....	....	....	Conn. Agr. Expt. Sta., Bul. 258, 371 (1924).
Niagara Sprayer & Chemical Co., Middle- port, N. Y. Niagara Free Flowing Dusting	92.00	92.44	....	....	....	....	....	....	....	98.92	Conn. Agr. Expt. Sta., Sample 5610.
Niagara Sprayer & Chemical Co., Middle- port, N. Y. Niagara Kolodust.....	90.00	90.10	....	....	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 28 (1927).
Niagara Sprayer & Chemical Co., Middle- port, N. Y. Niagara Superfine Dusting..	99.50	99.70	0.20	0.10	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 28 (1927).
Niagara Sprayer & Chemical Co., Middle- port, N. Y. Niagara Supreme Dusting 99½% Pure.....	99.50	99.87	....	....	....	....	....	....	....	....	N. J. Agr. Expt. Sta., Bul. 485, 8 (1929).
Niagara Sprayer & Chemical Co., Middle- port, N. Y. Vesuvius Sublimed Flowers..	100.00	99.85	0.09	0.06	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 66, 21 (1926).
Dr. O'Toole, Sacramento, Cal.....	....	99.46	0.10	0.44	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 26 (1923).

TABLE XXXII. SULPHUR—Continued.

Manufacturer or Distributor and Brand	Sulphur		Water	Ash	Acidity as Sulphuric Acid	Type	Fineness			Publication
	Guaranteed	Found					100 Mesh	200 Mesh	300 Mesh	
Pacific Guano & Fertilizer Co., Berkeley, Cal. Cropmaker Flowers.....	100.00	99.50	0.40	0.10	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 28 (1927).	
Pacific Guano & Fertilizer Co., Berkeley, Cal. Producer Flowers.....	100.00	99.64	0.25	0.11	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 28 (1927).	
Pacific Guano & Fertilizer Co., Berkeley, Cal. Sunkist Dusting.....	99.00	97.45	0.35	1.60	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 28 (1927).	
Pascal, Dubedat & Co. P. D. C. Rooster Flowers.....	....	99.44	0.39	0.17	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 66, 21 (1926).	
H. K. Patch, Los Angeles, Cal. Premek (Reversible Colloidal).....	50.00	52.56	40.00	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 24 (1930).	
Public Service Electric & Gas Co., Camden, N. J. Flotation Sulfur Paste.....	35.00	36.32	54.59	....	....	....	....	....	N. J. Agr. Expt. Sta., Bul. 577, 8 (1934).	
Richards Import & Export Co. Union....	99.62	99.57	0.38	0.05	....	Sublimed	....	....	Cal. Dept. Agr., Spec. Pub. 58, 24 (1925).	
D. Rubino. Angelo Pontillo.....	90.00	99.71	0.08	0.21	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 66, 21 (1926).	
San Francisco Sulphur Co., San Francisco, Cal. Anchor Brand.....	100.00	99.75	0.11	0.15	0.13	Sublimed	....	....	Cal. Dept. Agr., Spec. Pub. 101, 24 (1930).	
San Francisco Sulphur Co., San Francisco, Cal. Asti Sublimed.....	100.00	100.00	....	....	....	Sublimed	....	....	Cal. Dept. Agr., Spec. Pub. 58, 24 (1925).	
San Francisco Sulphur Co., San Francisco, Cal. Diamond S Flour.....	100.00	99.65	0.23	0.12	....	Milled	....	....	Cal. Dept. Agr., Spec. Pub. 58, 24 (1925).	
San Francisco Sulphur Co., San Francisco, Cal. Eagle Sublimed Flowers.....	100.00	99.38	0.22	0.40	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 29 (1927).	
San Francisco Sulphur Co., San Francisco, Cal. Electric Super Adhesive.....	99.80	99.80	0.15	0.10	0.05	Ground	....	....	Cal. Dept. Agr., Spec. Pub. 101, 24-25 (1930).	

San Francisco Sulphur Co., San Francisco, Cal. Owl Superfine Flour .....	99.50	98.69	0.18	0.56	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 29 (1927).
San Francisco Sulphur Co., San Francisco, Cal. Red Flag Velvet Flowers.....	100.00	99.64	0.28	0.09	....	Sublimed	....	....	....	Cal. Dept. Agr., Spec. Pub. 58, 24 (1925).
San Francisco Sulphur Co., San Francisco, Cal. Swan Brand Superfine Ventilated Dusting.....	98.50	98.13	0.30	1.57	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 29 (1927).
San Francisco Sulphur Co., San Francisco, Cal. Ventilated .....	....	99.59	0.25	0.16	....	....	....	97.00	....	Cal. Dept. Agr., Spec. Pub. 34, 26 (1923).
San Francisco Sulphur Co., San Francisco, Cal. X L Sublimed.....	99.80	99.83	0.07	0.10	....	Milled	....	....	....	Cal. Dept. Agr., Spec. Pub. 66, 21 (1926).
Sherwin-Williams Co., Cleveland, O. Mulsoid.....	95.00	94.73	....	....	....	....	....	....	....	N. J. Agr. Expt. Sta., Bul. 594, 7 (1935).
The Sherwin-Williams Co., Cleveland, O. Sherwin-Williams Dusting.....	100.00	99.80	0.07	0.13	....	Milled	....	....	....	Cal. Dept. Agr., Spec. Pub. 58, 24 (1927).
The Sherwin-Williams Co., Cleveland, O. Sherwin-Williams Ultra Brand Flowers..	100.00	99.59	0.22	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 29 (1927).
The Sherwin-Williams Co., Cleveland, O. Sherwin-Williams Zephyr Brand Flowers	100.00	99.43	0.38	0.20	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 29 (1927).
Stauffer Chemical Co. Anchor Velvet Flowers.....	100.00	99.60	0.10	0.30	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 29 (1927).
T. D. Urbahns, Sacramento, Cal. Ortho Sprays-Milled <sup>5</sup> .....	85.00	90.24	2.02	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 26 (1923).
T. D. Urbahns, Sacramento, Cal. Wet-O- Dry XX Wettable Dosch.....	70.00	71.84	....	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 34, 26 (1923).
Western Sulphur Co., Oakland, Cal. Bear Brand Bleaching.....	100.00	99.50	0.50	....	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 29 (1927).
Western Sulphur Co., Oakland, Cal. Cream of Sulphur.....	90.00	90.13	0.51	7.83	....	Milled	....	....	....	Cal. Dept. Agr., Spec. Pub. 58, 25 (1925).
Western Sulphur Co., Oakland, Cal. Poppy Dusting.....	98.00	99.08	0.15	0.78	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 75, 29 (1927).
Western Sulphur Industries, Sebastopol, Cal. Carnation Brand Dusting.....	98.00	97.85	0.10	1.90	0.05	Ground	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 25 (1930).

TABLE XXXII. SULPHUR—Continued.

Manufacturer or Distributor and Brand	Sulphur		Water	Ash	Acidits as Sulphuric Acid	Type	Fineness			Publication
	Guaranteed	Found					100 Mesh	200 Mesh	300 Mesh	
Western Sulphur Industries, Sebastopol, Cal. Super Poppy Colloidal and Poppy Ventilated Dusting.....	97.00	96.85	0.40	1.60	0.05	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 25 (1930).
Western Sulphur Industries, Porterville, Cal. Super Poppy Dusting.....	....	98.03	0.20	1.20	0.07	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 25 (1930).
Western Sulphur Industries, Sebastopol, Cal. W. W. Brand Western Wettable Black Gas.....	87.00	88.25	0.30	8.50	....	....	....	....	....	Cal. Dept. Agr., Spec. Pub. 101, 25 (1930).
T. & S. C. White Co., New York, N. Y. Sulphur Dust 100%—300 Mesh.....	....	....	....	....	....	....	....	100.00	....	Conn. Agr. Expt. Sta., Bul. 300, 358 (1929).
Yolo County Purchasing & Selling Corp., Woodland, Cal. Ortho.....	99.00	99.46	0.32	0.23	....	....	....	83.16	....	Cal. Dept. Agr., Spec. Pub. 34, 26 (1923).

<sup>1</sup> Guaranteed calcium polysulphide 3.5 percent; inert 6.5 percent.

<sup>2</sup> Calcium hydroxide, guaranteed 10.00 percent; found, 7.14 percent.

<sup>3</sup> Manganous sulphate ( $MnSO_4 \cdot 4H_2O$ ) 8.72 percent; skim milk powder 22.98 percent.

<sup>4</sup> Copper sulphate 2.73 percent.

<sup>5</sup> Guaranteed: Calcium thiosulphate 4.58 percent; gypsum 1.63 percent; casein 0.46 percent.