Quality and Quantity of Pesticides Sold in Connecticut — 1985
By Lester Hankin and Paul E. Waggoner
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A new feature of this annual Bulletin reporting the quality of pesticides and related products is information on the quantity of restricted pesticides sold in Connecticut.

When the Connecticut Act regulating the distribution, sale and transportation of pesticides became effective in 1964, it required that the Commissioner of the Department of Agriculture and Natural Resources and the Director of this Station purchase and analyze samples of pesticides offered for sale in Connecticut and publish the results. Beginning with the report of inspections for 1964 published in Bulletin 682 of this Station, the character and composition of pesticides has been reported annually.

People are worried about pesticides. To learn whether we should worry more or less, the logical course is first learning the quantity sold.

Section 22a-50 of the Connecticut General Statutes specifies that pesticides that may adversely affect the environment shall be classified for "restricted use" by the Commissioner of Environmental Protection. The law states: "In the event that the commissioner determines that the pesticide, when applied in accordance with its directions for use, warnings and cautions and for the uses for which it is registered, or for one or more of such uses, or in accordance with a widespread and commonly recognized practice, may generally cause, without additional regulatory restrictions, unreasonable adverse effects on the environment, including injury to the applicator, he shall classify the pesticide, or the particular use or uses to which the determination applies, for restricted use...." Thus, examining the restricted pesticides is examining the potent ones.

Beginning in 1979, Stephen Hitchcock and Bradford Robinson of the Department of Environmental Protection have recorded the sales of restricted pesticides sold in the state. The quantity of pesticides sold, of course, does not precisely show use. Use is the sales in the State, plus the pesticides bought outside the State and used here, and minus the pesticides bought here and used elsewhere. Although the sales are not precisely the use, the sales do show where large quantities are used and indicate the trend in the use of potent pesticides.

The sales of restricted pesticides for 1979 to 1984 were reported in Bulletin 831 of the Station, which answered the question: "Where is the next strategic place to reduce pesticide use?" The quantity and toxicity of restricted pesticides sold changed little from 1979 to 1984. A surprisingly large portion of the restricted pesticides sold was used to manage pests in the soil. Thus, the answer to the question is "In the soil". Bulletin 831 promised that with the cooperation of the Department of Environmental Protection the Station would continue to publish the quantity of restricted pesticides sold in the State, and that promise is fulfilled in Table 1 of this Bulletin.

The amount of restricted pesticides sold in Connecticut was less in 1985 than during any of the years from 1979 through 1984.

To reveal the cause of this substantial decrease, the pesticides were first classified into broad groups according to the pests they were intended to control: rodents; weeds, fungi, and
Table 1. The quantity of active ingredients in restricted pesticides sold annually in Connecticut and recorded by the Department of Environmental Protection. To show the trend in sales, the quantity of all ingredients sold is shown. To show the use of the pesticides, the percentages of the annual total sold for the control of five classes of pests are tabulated. The gaseous fumigant, methyl bromide, and a small quantity of "other" are tabulated separately.

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Quantity sold for control of groups of pests shown as percentage of total quantity sold.

insects controlled by spraying; soil pests, such as nematodes and insects controlled by injection or drenching of the soil; the gaseous fumigant methyl bromide; and a miscellany including bird repellants. The sales of each group is shown as a percentage of the annual totals. Although soil pesticides comprised more than half the weight sold in 1985 as they had during 1979-1984, their percentage fell from 56 to 53%. Between 1984 and 1985 the sale of methyl bromide fell from 12 to 6% of the total weight sold.

Since sales of methyl bromide and, especially, soil pesticides are large but comprised a smaller percentage of the total in 1985 than in 1984, their decrease was obviously the major cause of the decrease in sales from 1984 to 1985 of all restricted pesticides. Whereas the sales of pesticides for rodents, weeds and fungi changed less than a ton between the years and sales of insecticides declined only 2 tons, the sales of methyl bromide decreased 7 tons and of soil pesticides fully 18 tons.

Toxicity as well as quantity of pesticides is, of course, important. In Bulletin 831 a measure called "Hazard" was calculated by dividing the quantity of a pesticide ingredient sold by the dose that is acutely toxic to 50% of a group of test animals. This dose is called LD50 and is expressed as mg dose per kg body weight of the test animals, which are usually rats. LD50 was available from the literature for 96 of the 103 active ingredients sold sometime during 1979-85; methyl bromide is the only ingredient sold in large quantity that has no published LD50. Hazard was calculated for the 96. During 1979-84 this Hazard changed little. From 1984 to 1985, however, Hazard decreased fully 32%, and 26 of the 32 percentage points or eight-tenths of the total decrease were the decrease in the Hazard of soil pesticides.

Although one may not be certain how this remarkable decrease in the sales of potent soil pesticides came about, it is reasonable to attribute it to a logical response to the discovery in groundwater of the soil pesticide, ethylene dibromide or EDB. Since no EDB had been sold in Connecticut during 1979-84, its prohibition in the winter of 1984-85 could not cause the decrease in sales of pesticides. Rather, the discovery of EDB in groundwater and the ensuing troubles evidently evoked widespread and voluntary restraint in using all soil pesticides despite the need to control the pests. Since soil pesticides are the strategic place to reduce pesticide use, the total sales of all restricted pesticides fell by a quarter and the Hazard of all restricted pesticides fell by a third in a single year.
A cost was, of course, exacted for the decrease. In one example, a survey for nematode-free soil by the scouts of this Station was substituted for the treatment of land. In another the laborious dipping by nurserymen of plants in containers was substituted for the treatment of soil with EDB. In these cases, the cost exacted was labor. In other cases the cost may have been smaller yield. Although the Station is experimenting with a range of alternative treatments to manage soil pests, pesticides are still the most effective means, and the decreased use of soil pesticides may have exacted a toll of decreased yield. Despite these costs, however, the goal of reducing pesticide use was achieved during 1985. Pesticide sales in 1986 will show if this reduction in the use of pesticides is a trend.

Now, we turn to the report of the quality of pesticides that continues the series begun with sampling in 1984.

The quality of pesticides, pool products, and pet preparations collected during 1985 is shown by the chemical analyses reported in this Bulletin. The 257 samples were collected by inspectors of the Connecticut Department of Environmental Protection.

Table 2 shows individual samples representing 403 guarantees for active ingredients from 65 manufacturers. The manufacturers of three samples were not known. Following the names of the manufacturers are the brands of the products and the active ingredients. The percent guarantee is then shown followed by the percent found. Values followed by a minus sign (−) were deficient in amount of active ingredient; values followed by a plus sign (+) were excessive.

Two criteria determine if samples are satisfactory. The first is that a sample cannot contain a deficiency or excess of active ingredient. Deficiencies and excesses are determined according to Laboratory Verification Guidelines established by the U.S. Environmental Protection Agency. Overall, 5.8% of the 254 samples were deficient in at least one active ingredient and 0.8% were excessive in at least one active ingredient. For 403 guarantees for active ingredient, only 4.8% were deficient and 0.5% were excessive. The second criterion is that a sample is unsatisfactory if it contains an ingredient not listed on the label. No unlisted ingredients were found in any samples tested.

Table 3 summarizes the number of samples tested from each manufacturer, the number of guarantees for active ingredients, the number of deficiencies or excesses, and the average percent of guarantee.

Analyses were performed by Martha Fuzesi, Richard Hastings, Mary Alice DeFrancesco, and Dennis Migneault. Samples were collected by Marshall Beott, Douglas Griswold, and Maria Walker. Pesticide laws are administered by the Commissioner of the Department of Environmental Protection.
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<th>Manufacturer, Product Name &amp; Active Ingredient</th>
<th>% Guarantee</th>
<th>% Found</th>
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Table 2. Analysis of Individual Samples (continued).

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Table 2. Analysis of Individual Samples (continued).

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Table 2. Analysis of Individual Samples (continued).

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<td>1.09</td>
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Table 2. Analysis of Individual Samples (continued).

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Table 2. Analysis of Individual Samples (continued).

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Table 2. Analysis of Individual Samples (continued).

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<th>% Found</th>
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<td>Fogging Spray</td>
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<td>Gaston Johnston Corp.</td>
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<td>Johnstone No Roach</td>
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<td>Malathion</td>
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<td>Diazinon</td>
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Table 2. Analysis of Individual Samples (continued).

<table>
<thead>
<tr>
<th>Manufacturer, Product Name &amp; Active Ingredient</th>
<th>% Guarantee</th>
<th>% Found</th>
</tr>
</thead>
</table>
| Hartz Mountain Corp.  
Hartz 2 in 1 Flea & Tick Powder for Dogs  
2-Chloro-1-(2,4,5-trichlorophenyl)  
Vinyl dimethyl phosphate | 3.0 | 3.10 |
| ICT Americas, Inc.  
Havoc Rodenticide Bait Pack  
Brodifacoum | 0.005 | 0.0048 |
| International Spike  
Jobe's Insecticide for Evergreen Shrubs  
Disyston | 1 | 1.09 |
| Jobe's Insecticide for Flowering Shrubs  
Disyston | 1 | 1.03 |
| It Works  
IT WORKS  
Boric acid | 40 | 44.4 |
| Sulfur | 5 | 4.85 |
| The Original Roach Croaker  
Boric acid | 50 | 51.7 |
| J & L Adikens, Inc.  
Gro-Well Benomyl Fungicide  
Benomyl | 50.00 | 51.40 |
| Gro-Well Bordeaux Mixture  
Copper | 12.75 | 13.55 |
| Gro-Well Borer Killer  
Lindane | 5 | 4.9 |
| Gro-Well Zineb Fungicide  
Zineb | 75.00 | 86.46 |
| King Company  
King Cockroach Killer  
Boric Acid | 99.9 | 97.6 |
| King Cockroach Killer  
Boric Acid | 99.9 | 98.9 |
| King Cockroach Killer  
Boric Acid | 99.9 | 98.2 |
| Knight Oil Corp.  
Knight Spray Nine  
n-Alkyl dimethyl benzyl ammonium chloride | 0.19 | 0.15 |
| n-Alkyl dimethyl ethylbenzyl ammonium chloride | 0.19 | 0.15 |
| Sodium metasilicate | 0.57 | 0.67 |
| Lynwood Labs  
Shoo-fly Hornet Jet Bomb  
Diazinon | 0.500 | 0.500 |
| Pyrethrins | 0.025 | 0.027 |
| Fipronil butoxide, tech. | 0.262 | 0.235 |
| Miller Chem. & Pert./Pratt Gabriel Div.  
Pratt Bordo-Mix  
Copper | 12.75 | 12.38 |
| Pratt Diazinon AG 4 E Insect Spray  
Diazinon | 48 | 47.2 |
| Pratt Fruit Tree Spray  
Malathion | 6.0 | 7.70 |
| Methoxychlor | 10.0 | 9.77 |
| Captan | 6.0 | 5.80 |
| Sulfur | 25.0 | 25.20 |
| Pratt Methoxychlor-25 Insect Spray  
Methoxychlor | 25.0 | 25.30 |
### Table 2. Analysis of Individual Samples (continued)

<table>
<thead>
<tr>
<th>Manufacturer, Product Name &amp; Active Ingredient</th>
<th>% Guarantee</th>
<th>% Found</th>
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<td><strong>Pratt Red Arrow Insect Spray</strong></td>
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<tr>
<td>Pyrethrins</td>
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<td>Rotenone</td>
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<tr>
<td>Piperonyl butoxide, tech.</td>
<td>3.0</td>
<td>3.06</td>
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<tr>
<td><strong>Pratt Tomato and Vegetable Dust or Spray</strong></td>
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<td>Duraban</td>
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<td>0.30</td>
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<td>Nott Mole - Nobs</td>
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<td><strong>Old Fox Chemical Co.</strong></td>
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<tr>
<td>2,4-D (Isocyclic ester)</td>
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<td>2,4-DP (Butoxystanol ester)</td>
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<td>Dicamba acid</td>
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<td>Oxford D'Germ</td>
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<tr>
<td>Phosphoric acid</td>
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<tr>
<td>Dodecyl benzene sulfonic acid</td>
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<td>Hydrogen chloride</td>
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<td>Sulfuric acid</td>
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<td><strong>Oxford Spro-Fect</strong></td>
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<td>0.053</td>
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<td>d-Limonene</td>
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<td>76.80</td>
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Table 2. Analysis of Individual Samples (continued).

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<th>Manufacturer, Product Name &amp; Active Ingredient</th>
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<th>% Found</th>
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<td>Pic Corp.</td>
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<td>100</td>
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<td>2,4-D (Dimethylamine salt)</td>
<td>0.260</td>
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<tr>
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<td>0.025</td>
<td>0.022</td>
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<tr>
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<td>0.020</td>
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<tr>
<td>Residex Corp.</td>
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<tr>
<td>Pest Pro Power Wasp and Hornet Freeze</td>
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<td>0.49</td>
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<td>Roach Croaker</td>
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<td>12.00</td>
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<td>Rockland Zineb Garden Fungicide</td>
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<td>Super K-Gro Rose and Floral Dust</td>
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<td>S. C. Johnson &amp; Son, Inc.</td>
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Table 2. Analysis of Individual Samples (continued).

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<th>% Found</th>
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<td>9.9</td>
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<td>2,4-D (Diethanolamine salt)</td>
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<td>York Mouse &amp; Rat Pack with Rozol Chlorophacinone</td>
<td>0.005</td>
<td>0.0049</td>
</tr>
<tr>
<td>Talon-9</td>
<td>0.005</td>
<td>0.0042</td>
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<tr>
<td>Brodifacoum</td>
<td></td>
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</tr>
<tr>
<td>Velsicol Chem. Corp.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gold Crest Ramik Pro Rodenticide Bait Pack</td>
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</tr>
<tr>
<td>Diphacinone</td>
<td>0.005</td>
<td>0.0052</td>
</tr>
<tr>
<td>Walco-Linck Co.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tat Heavy Duty Aerosol Wet Spray</td>
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</tr>
<tr>
<td>Pyrethrins</td>
<td>0.075</td>
<td>0.099</td>
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<tr>
<td>Piperonyl butoxide</td>
<td>0.375</td>
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<tr>
<td>Tat Roach Trap</td>
<td>2.00</td>
<td>1.98</td>
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</table>
Table 2. Analysis of Individual Samples (continued).

<table>
<thead>
<tr>
<th>Manufacturer, Product Name &amp; Active Ingredient</th>
<th>% Guarantee</th>
<th>% Found</th>
</tr>
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<tbody>
<tr>
<td>Woodlet's, Inc.</td>
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<tr>
<td>Woodlet's Ozium Glycolized Air Sanitizer</td>
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<td></td>
</tr>
<tr>
<td>Triethylene glycol</td>
<td>4.4</td>
<td>4.20</td>
</tr>
<tr>
<td>Propylene glycol</td>
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<td>4.75</td>
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<tr>
<td>Woolfolk Chem. Works, Inc.</td>
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<td></td>
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<tr>
<td>Security Ferbam Fungicide</td>
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<td></td>
</tr>
<tr>
<td>Verbam</td>
<td>76.0</td>
<td>76.52</td>
</tr>
<tr>
<td>Security Lime Sulphur</td>
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<td></td>
</tr>
<tr>
<td>Calcium polysulfide</td>
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<td>31.6</td>
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<tr>
<td>Security Amitrol Liquid Herbicide</td>
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</tr>
<tr>
<td>Amitrole</td>
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<td>21.20</td>
</tr>
<tr>
<td>York Chemical Co., Inc.</td>
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<td></td>
</tr>
<tr>
<td>Certox Boric Acid Roach Killer</td>
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<td></td>
</tr>
<tr>
<td>Boric acid</td>
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<tr>
<td>Certox Last Step Rodenticide</td>
<td></td>
<td></td>
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<tr>
<td>Brodifacoum</td>
<td>0.005</td>
<td>0.0043</td>
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<tr>
<td>York Diazinon &amp; E</td>
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<td>Diazinon</td>
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<tr>
<td>Zena Corp.</td>
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<tr>
<td>Zena Super Fogger</td>
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<td>Baygon</td>
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<td>DDVF</td>
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</table>
Table 3. Summary for each manufacturer of number of products tested, number of guarantees for active ingredients, number of guarantees deficient or excessive, and average percentage of guarantee.

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Number of products tested</th>
<th>Number of guarantees</th>
<th>Number of guarantees deficient(-) or excessive(+)</th>
<th>Average % of guarantee</th>
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<tr>
<td>3 M Agric. Products</td>
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<td>1</td>
<td>0</td>
<td>103</td>
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<tr>
<td>Aeroxon Products</td>
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<td>1</td>
<td>0</td>
<td>110</td>
</tr>
<tr>
<td>Agway</td>
<td>29</td>
<td>43</td>
<td>0</td>
<td>102</td>
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<tr>
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<td>0</td>
<td>100</td>
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<td>0</td>
<td>99</td>
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<tr>
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<td>Bell Labs</td>
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<td>1</td>
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<td>Carter-Wallace</td>
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<td>8</td>
<td>0</td>
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<td>Chemiso</td>
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<tr>
<td>d-Con Co.</td>
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<td>J &amp; L Adikes</td>
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<tr>
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<td>Woodlet's</td>
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<td>Woolfolk Chem. Works</td>
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