



The Connecticut Agricultural Experiment Station

123 HUNTINGTON STREET BOX 1106 NEW HAVEN, CONN. 06504 (203) 787-7421

SPECIAL FERTILIZER ANALYSIS

by J. Gordon Hanna

The gas shortage and resulting increase in the cost of producing nitrogen raised the possibility that fertilizers arriving on the market might show more than usual deficiencies in nitrogen contents.

To check this possibility, a special sampling of 46 fertilizer mixes was made during the period March 28 through April 15, 1977, at the direction of the Commissioner of Agriculture, and followed by analyses for nitrogen in these laboratories. The results of these analyses are presented in this report.

A significant increase in the number of samples deficient in nitrogen is indicated by this sampling. This can be seen from the following comparisons, with data from three preceding annual fertilizer inspection reports:

<u>Reports</u>	<u>Percent of Nitrogen Claims Deficient</u>	<u>Average Percent of Nitrogen Relative to Claims</u>
1977 (Special)	37	99
1976	16	105
1975	13	109
1974	9	110

<u>Manufacturer</u>	<u>Grade</u>	<u>Nitrogen, %</u>		<u>Percent of Claims</u>
		<u>Claimed</u>	<u>Present</u>	
Agrico Chemical Co.	5-10-10	5	7.60	152
	10-10-10	10	6.72*	67
	10-20-20	10	15.0	150
	15-10-10	15	14.1*	94
	20-10-10	20	17.0*	85
Agway, Inc.	5-10-10	5	4.43*	89
	10-10-10	10	9.00*	90
	15-6-32	15	16.6	111
	15-8-12	15	15.0	100
	15-15-15	15	15.1	101
	21-5-7	21	21.1	104
	22-6-8	22	22.4	102
	25-14-14	25	28.6	114
	29-9-12	29	30.0	103
Cadwell and Jones	5-10-5	5	3.90*	78
	5-10-10	5	4.38*	88
	10-6-4	10	6.04*	60
	10-10-10	10	9.84	98
	10-10-10	10	8.56*	86
	12-8-8	12	12.0	100
	15-10-10	15	13.1*	87
	20-10-10	20	19.1*	96
	32-7-5	32	31.1	97
	25-5-10	25	21.8*	87
Fer-Mel	11-4-7	11	12.8	116
	21-6-11	21	21.7	103
Heritage House Products	5-10-5	5	3.37*	67
	5-10-10	5	7.04	141
	5-10-10	5	6.16	123
	6-3-6	6	5.72	95
	10-10-10	10	12.4	124
	10-10-10	10	8.86*	89
	10-10-10	10	10.2	102
	10-10-10	10	10.1	101
	10-10-10	10	9.50	95
	15-10-10	15	14.8	99
	30-4-4	30	30.9	103
	24-4-8	24	25.5	106
	8-10-10	8	6.04*	76
	10-6-4	10	10.3	103
	10-6-4	10	10.4	104
	15-8-12	15	12.7*	85
	15-15-15	15	15.0	100
19-19-19	19	15.7*	83	
O. M. Scott and Sons	30-3-10	30	31.0	103
	26-3-3	26	26.6	102

Average percent of claims

99

Percent of claims deficient

37

Starred items are low in nitrogen content.