The

Connecticut

Agricultural

Experiment

Station,

New Haven

Inspection of

Commercial

Fertilizers 1992

BY MARY JANE INCORVIA MATTINA

Bulletin 910

March 1993

From January 1, 1992 to December 31, 1992 eighty-four samples of fertilizer were collected by inspectors of the Connecticut Department of Agriculture. They were examined by the Analytical Chemistry Department of the Connecticut Agricultural Experiment Station for compliance of the label guarantees with State of Connecticut Regulations. Included in this Bulletin are the results of the analyses of the macronutrients, nitrogen, phosphoric acid, and potash, for these samples. Additional analyses of fertilizers performed for farmers and other Station Departments are not included in this Bulletin

The results of analyses of the products from thirty-four different manufacturers are presented in Table 1. A sample is "deficient" if the analytical result for a parameter is below the guaranteed value by more than the permissible percentage established by the Association of American Feed Control Officials. Of the 84 samples examined fifteen or 17.9% were found to be deficient in one or more parameters. Nine samples or 10.7% were found to be low in nitrogen, five samples or 5.9% were low in phosphoric acid, and six samples or 7.1% were low in potash.

Table 2 shows the total tonnage of multiple nutrient fertilizers sold in Connecticut for the period indicated for selected grades. Table 3 lists the tonnage of some fertilizer materials sold in Connecticut for the same period.

The samples were collected by Melanie Attwater under the direction of Alton VanDyke, the Fertilizer Control Official for the Department of Agriculture. The analyses were performed by Craig Musante and Mamie Pyles under the direction of Dr. David Stilwell.

Mary Jane Incorvia Mattina Chief, Analytical Chemistry

Table 1. Analysis of individual fertilizer samples.

Normal
A. H. HOFFMAN, INC. Hoffman Vegetable Food 5 5.1 10 10.9 5 5.8 AGWAY Agway 23 22.4 12 14.7 18 16.7- Agway 21 21.1 8 9.9 24 23.6 Agway 15 15.2 15 17.8 15 17.1 Agway 22 22.0 10 14.3 18 19.2 Agway 18 16.4 18 18.9 18 17.7 Agway 0 0 0.5 15 18.7 30 30.4 Agway 0 0 0.5 15 18.7 30 30.4 Agway 24 21.5 12 11.4 18 20.6 Agway 24 21.5 12 11.4 18 20.6 Agway 24 21.5 12 11.4 18 20.6 Agway 24 27.5 12 11.1 18 14.7- Agway 24 18.6 12 10.0 18 25.6 Agway 24 18.6 12 10.0 18 25.6 Agway 15 12.4 15 17.5 15 14.2 ALLJACK & CO. Super K-Gro Plant Food 15 15.8 30 29.5 15 17.9 CADWELL & JONES Cadwell & Jones 10 13.5 10 10.0 10 12.0 Cadwell & Jones 10 11.1 20 22.1 20 20.0 Cadwell & Jones 5 5.3 10 8.5- 15 14.9 Cadwell & Jones 10 10.0 10 8.9- 10 10.4 Cadwell & Jones 10 10.0 10 8.9- 10 10.4 Cadwell & Jones 10 10.0 10 8.9- 10 10.4 Cadwell & Jones 10 10.0 10 8.9- 10 8.3- CELEX CORP. Super K-Gro House Plant Food 5 5.3 10 9.7 8 8.0 CHEVRON CHEMICAL CO. Ortho Vegetable Food 8 9.9 10 9.7 8 8.0 Ortho Plant Starter-Up Start 5 7.1 15 18.2 5 4.8 Ortho House Plant Food 5 5.1 10 10.3 5 5.3 CLINTON NURSERY PRODUCTS, INC. New Era Plant Food 5 5.1 10 10.3 5 5.3
Hoffman Vegetable Food 5 5.1 10 10.9 5 5.8 AGWAY
Agway 21 21.1.1 8 9.9 24 23.6 Agway 15 15.2 15 17.8 15 17.1 Agway 22 22.0 10 14.3 18 19.2 Agway 18 16.4 18 18.9 18 17.7 Agway 0 0.5 15 18.7 30 30.4 Agway 24 21.5 12 11.4 18 20.6 Agway 24 27.5 12 11.1 18 14.7 Agway 24 27.5 12 12.1 18 14.7 Agway 24 18.6 12 10.0 18 25.6 Agway 15 12.4 15 17.5 15 14.2 ALLJACK & CO. Super K-Gro Plant Food 15 15.8 30 29.5 15 17.9 CADWELL & JONES Cadwell & Jones 10 13.5 10 10.0 10 12.0 Cadwell & Jones 5 5.3 10 8.5 15 14.9 Cadwell & Jones 10 11.1 20 22.1 20 20.0 Cadwell & Jones 5 5.3 10 8.5 15 14.9 Cadwell & Jones 10 10.0 10 8.9 10 10.4 Cadwell & Jones 10 10.0 10 8.9 10 10.4 Cadwell & Jones 10 10.0 10 8.9 10 10.4 Cadwell & Jones 10 10.0 10 8.9 10 8.3 CELEX CORP. Super K-Gro House Plant Food 5 5.3 10 10.4 5 5.3 CHEVRON CHEMICAL CO. Ortho Vegetable Food 8 9.9 10 9.7 8 8.0 Ortho Plant Starter-Up Start 5 7.1 15 18.2 5 4.8 Ortho House Plant Food 5 5.3 3 CLINTON NURSERY PRODUCTS, INC. New Era Plant Food Sticks Flowering 6 6 6.8 12 15.6 6 7.4
Agway 21 21.1 8 9.9 24 23.6 Agway 15 15.2 15 17.8 15 17.1 Agway 22 22.0 10 14.3 18 19.2 Agway 18 16.4 - 18 18.9 18 17.7 Agway 0 0 0.5 15 18.7 30 30.4 Agway 24 21.5 12 11.4 18 20.6 Agway Sol-U-Green with Micronutrients 20 23.0 20 23.2 20 19.6 Agway 24 27.5 12 11.4 18 14.7 Agway 24 27.5 12 12.1 18 14.7 Agway 24 18.6- 12 10.0- 18 25.6 Agway 15 12.4- 15 17.5 15 14.2 ALLJACK & CO. Super K-Gro Plant Food 15 15.8 30 29.5 15 17.9 CADWELL & JONES Cadwell & Jones 10 11.1 20 22.1 20 20.0 Cadwell & Jones 5 5.3 10 10.0 10 12.0 Cadwell & Jones 10 11.1 20 22.1 20 20.0 Cadwell & Jones 5 5.3 10 8.5- 15 14.9 Cadwell & Jones 10 10 10.0 10 8.9- 10 10.4 Cadwell & Jones 10 10 10.0 10 8.9- 10 10.4 Cadwell & Jones 10 10 10.0 10 8.9- 10 10.4 Cadwell & Jones Plant Food 5 5 5.3 10 10.4 5 5.3 CELEX CORP. Super K-Gro House Plant Food 5 5 5.1 10 10.3 5 5.3 CHEVRON CHEMICAL CO. Ortho Vegetable Food 8 9.9 10 9.7 8 8.0 Ortho Plant Starter-Up Start 5 7.1 15 18.2 5 4.8 Ortho House Plant Food 5 5 5.1 10 10.3 5 5.3 CLINTON NURSERY PRODUCTS, INC. New Era Plant Food Sticks Flowering 6 6 6.8 12 15.6 6 7.4
Agway 15 15.2 15 17.8 15 17.1 Agway 22 22.0 10 14.3 18 19.2 Agway 18 16.4 - 18 18.9 18 17.7 Agway 0 0 0.5 15 18.7 30 30.4 Agway 24 21.5 12 11.4 18 20.6 Agway Sol-U-Green with Micronutrients 20 23.0 20 23.2 20 19.6 Agway 24 27.5 12 11.4 18 14.7 Agway 24 27.5 12 12.1 18 14.7 Agway 24 18.6 12 10.0 18 25.6 Agway 25.0 Agway 26 15 12.4 15 17.5 15 17.9 Agway 26 15 12.4 15 17.5 15 15 14.2 ALLJACK & CO. Super K-Gro Plant Food 15 15.8 30 29.5 15 17.9 CADWELL & JONES 20 10 11.1 20 22.1 20 20.0 Cadwell & Jones 10 11.1 20 22.1 20 20.0 Cadwell & Jones 10 11.1 20 22.1 20 20.0 Cadwell & Jones 10 11.1 20 22.1 20 20.0 Cadwell & Jones 10 10.0 10 8.5 15 14.9 Cadwell & Jones 10 10.0 10 8.9 10 10.4 Cadwell & Jones 10 10.0 10 8.9 10 10.4 Cadwell & Jones 10 10.0 10 10 9.7 8 8 8.0 CELEX CORP. Super K-Gro House Plant Food 5 5 5.3 10 10 9.7 8 8.0 Ortho Vegetable Food 8 9.9 10 9.7 8 8.0 Ortho Vegetable Food 5 5.1 10 10.3 5 5.3 CLINTON NURSERY PRODUCTS, INC. New Era Plant Food Sticks Flowering 6 6 6.8 12 15.6 6 7.4
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ALLJACK & CO. Super K-Gro Plant Food 15 15.8 30 29.5 15 17.9 CADWELL & JONES Cadwell & Jones 10 13.5 10 10.0 10 12.0 Cadwell & Jones 10 11.1 20 22.1 20 20.0 Cadwell & Jones 5 5.3 10 8.5- 15 14.9 Cadwell & Jones Surge (Super) 20 20.8 10 8.9- 10 10.4 Cadwell & Jones Surge (Super) 10 10.0 10 8.9- 10 8.3- CELEX CORP. Super K-Gro House Plant Food 5 5.3 10 10.4 5 5.3 CHEVRON CHEMICAL CO. Ortho Vegetable Food 8 9.9 10 9.7 8 8.0 Ortho Plant Starter-Up Start 5 7.1 15 18.2 5 4.8 Ortho House Plant Food 5 5.1 10 10.3 5 5.3 CLINTON NURSERY PRODUCTS, INC. New Era Plant Food Sticks Flowering 6 6 6.8 12 15.6 6 7.4
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Cadwell & Jones 10 13.5 10 10.0 10 12.0 Cadwell & Jones 10 11.1 20 22.1 20 20.0 Cadwell & Jones 5 5.3 10 8.5- 15 14.9 Cadwell & Jones Surge (Super) 20 20.8 10 8.9- 10 10.4 Cadwell & Jones 10 10.0 10 8.9- 10 8.3- CELEX CORP. Super K-Gro House Plant Food 5 5 5 10 10 10.4 5 5 5 3 CHEVRON CHEMICAL CO. Ortho Vegetable Food 8 9.9 10 9.7 8 8 8 0 Ortho Plant Starter-Up Start 5 7.1 15 18.2 5 4.8 Ortho House Plant Food 5 5 3 CLINTON NURSERY PRODUCTS, INC. New Era Plant Food Sticks Flowering 6 6 6 7 4 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 8
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Cadwell & Jones 10 11.1 20 22.1 20 20.0 Cadwell & Jones 5 5.3 10 8.5- 15 14.9 Cadwell & Jones Surge (Super) 20 20.8 10 8.9- 10 10.4 Cadwell & Jones 10 10.0 10 8.9- 10 8.3- CELEX CORP. Super K-Gro House Plant Food 5 5.3 10 10.4 5 5.3 CHEVRON CHEMICAL CO. Ortho Vegetable Food 8 9.9 10 9.7 8 8.0 Ortho Plant Starter-Up Start 5 7.1 15 18.2 5 4.8 Ortho House Plant Food 5 5.1 10 10.3 5 5.3 CLINTON NURSERY PRODUCTS, INC. New Era Plant Food Sticks Flowering 6 6.8 12 15.6 6 7.4
Cadwell & Jones 5 5.3 10 8.5- 15 14.9 Cadwell & Jones Surge (Super) 20 20.8 10 8.9- 10 10.4 Cadwell & Jones 10 10.0 10 8.9- 10 8.3- CELEX CORP. Super K-Gro House Plant Food 5 5.3 10 10.4 5 5.3 CHEVRON CHEMICAL CO. Ortho Vegetable Food 8 9.9 10 9.7 8 8.0 Ortho Plant Starter-Up Start 5 7.1 15 18.2 5 4.8 Ortho House Plant Food 5 5.1 10 10.3 5 5.3 CLINTON NURSERY PRODUCTS, INC. New Era Plant Food Sticks Flowering 6 6.8 12 15.6 6 7.4
Cadwell & Jones Surge (Super) 20 20.8 10 8.9- 10 10.4 Cadwell & Jones 10 10.0 10 8.9- 10 8.3- CELEX CORP. Super K-Gro House Plant Food 5 5.3 10 10.4 5 5.3 CHEVRON CHEMICAL CO. Ortho Vegetable Food 8 9.9 10 9.7 8 8.0 Ortho Plant Starter-Up Start 5 7.1 15 18.2 5 4.8 Ortho House Plant Food 5 5.1 10 10.3 5 5.3 CLINTON NURSERY PRODUCTS, INC. New Era Plant Food Sticks Flowering 6 6 6.8 12 15.6 6 7.4
Cadwell & Jones 10 10,0 10 8,9- 10 8.3- CELEX CORP. Super K-Gro House Plant Food 5 5.3 10 10.4 5 5.3 CHEVRON CHEMICAL CO. Ortho Vegetable Food 8 9.9 10 9.7 8 8.0 Ortho Plant Starter-Up Start 5 7.1 15 18.2 5 4.8 Ortho House Plant Food 5 5.1 10 10.3 5 5.3 CLINTON NURSERY PRODUCTS, INC. New Era Plant Food Sticks Flowering 6 6.8 12 15.6 6 7.4
Super K-Gro House Plant Food 5 5.3 10 10.4 5 5.3 CHEVRON CHEMICAL CO. Ortho Vegetable Food 8 9.9 10 9.7 8 8.0 Ortho Plant Starter-Up Start 5 7.1 15 18.2 5 4.8 Ortho House Plant Food 5 5.1 10 10.3 5 5.3 CLINTON NURSERY PRODUCTS, INC. New Era Plant Food Sticks Flowering 6 6.8 12 15.6 6 7.4
CHEVRON CHEMICAL CO. Ortho Vegetable Food 8 9.9 10 9.7 8 8.0 Ortho Plant Starter-Up Start 5 7.1 15 18.2 5 4.8 Ortho House Plant Food 5 5.1 10 10.3 5 5.3 CLINTON NURSERY PRODUCTS, INC. New Era Plant Food Sticks Flowering 6 6 6.8 12 15.6 6 7.4
Ortho Vegetable Food 8 9.9 10 9.7 8 8.0 Ortho Plant Starter-Up Start 5 7.1 15 18.2 5 4.8 Ortho House Plant Food 5 5.1 10 10.3 5 5.3 CLINTON NURSERY PRODUCTS, INC. New Era Plant Food Sticks Flowering 6 6.8 12 15.6 6 7.4
Ortho Vegetable Food 8 9.9 10 9.7 8 8.0 Ortho Plant Starter-Up Start 5 7.1 15 18.2 5 4.8 Ortho House Plant Food 5 5.1 10 10.3 5 5.3 CLINTON NURSERY PRODUCTS, INC. New Era Plant Food Sticks Flowering 6 6.8 12 15.6 6 7.4
Ortho Plant Starter-Up Start 5 7.1 15 18.2 5 4.8 Ortho House Plant Food 5 5.1 10 10.3 5 5.3 CLINTON NURSERY PRODUCTS, INC. New Era Plant Food Sticks Flowering 6 6.8 12 15.6 6 7.4
Ortho House Plant Food 5 5.1 10 10.3 5 5.3 CLINTON NURSERY PRODUCTS, INC. New Era Plant Food Sticks Flowering 6 6.8 12 15.6 6 7.4
New Era Plant Food Sticks Flowering 6 6.8 12 15.6 6 7.4
New Era Plant Food Sticks Flowering 6 6.8 12 15.6 6 7.4
New Era Regular Plant Food Sticks 12 12.8 6 8.7 6 7.6
New Era Plant Food 8 9.0 8 8.8 8 9.4
New Era Plant Food 4 4.5 10 11.4 10 11.6
CROP PRODUCTION SERVICES
Village Green 10 9.2- 10 7.7- 10 9.6
Village Green 10 8.7- 6 6.4 4 3.6
CPS-Kogut Xmas Tree 17 13.9- 0 14 17.7
Crop Product Services 15 15.1 0 12 11.8
Crop Product Services-Xmas Tree 18 17.3 11 11.2 17 16.7
Village Green Professional Turf Food 28 28.1 5 5.7 11 12.1
Village Green Fert. 10 9.4 10 11.7 10 9.7
Village Green Fertilizer. 10 8.3- 6 7.0 4 2.7-
Village Green 5 5.4 10 9.6 10 9.5

Table 1. Analysis of individual fertilizer samples (cont
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Table 1. Analysis of individual fertilizer samples (continued).						_
		Ν	P2O5		K2O	
	Guar%	Found%	Guar%	Found%	Guar%	Found%
CPS	10	10.2	20	20.5	20	19.5
CPS	20	19.6	10	10.0	10	9.8
DOLGCTIC FEBRUATED DIG						
DOMESTIC FERTILIZER, INC. Super K-Gro Houseplant Food Sticks.	13	13.6	4	7.3	5	7.2
Super ix-Gro Houseplant I ook Sucks.	15	13.0		7.10		
FRANK'S NURSERY & CRAFTS						
Frank's Lawn Food	28	28.1	4	5.1	8	7.8
Frank's Lawn Fertilizer	32	32.9	4	4.0	8	3.2-
Frank's All Purpose Lawn & Garden Food	12	10.1-	12	13.2	12	9.8-
Frank's All Purpose Natural Organic Fertilizer	3	3.7	4	9.2	3	4.5
GARDENA, INC./DIV. OF GALE GROUP						
Happy Garden Fert. for Vegetables	14	13.9	8	9.3	6	14.2
OD A OF STEPP A						
GRACE SIERRA Osmocote Vegetable & Bedding Plant Food	14	14.5	14	15.0	14	14.0
Peters Professional Acid Greening	17	16.1-	6	7.9	6	8.3
Peters Conc. Liquid Plant Food	5	5.6	10	10.8	5	5.7
Peters Professional All Purpose	20	19.9	20	20.4	20	19.0
Peters Professional Houseplant Food	15	16.6	30	31.6	15	15.2
GUBLER NURSERY						
Gubler Pro Blend Orchid Food	24.1	8.9		14.2		
HOLLAND BULB PRODUCTS						
Holland Bulb Booster	9	9.7	9	9.7	6	5.6
Honand Build Booster	9	9.7	9	9.7	0	3.0
HY-TROUS/FLASH SALES, INC.						
Hy-Trous Liquid Plant Food w/micronutrients	5	5.4	10	10.7	5	5.1
HYPONEX CORP.	_	<i>5</i> 7	2	5.0	0	0.2
Hyponex Effervescent Plant Food Tablets	5	5.7	3	5.0	9	9.3
JRM CHEMICAL DIVISION						
Soil Moist Plus 5-5-5 Spikes	5	12.0	5	4.4	5	3,5
LEBANON CHEMICAL CORP.						
Greenview Green Power The Longlasting Lawn Fer	t. 30	30.2	4	5.3	4	8.7
Greenview Shrub Mate	12	12.7	4 10	10.0	10	9.7
Greenview Winter Green	10	10.2	16	17.9	10	16.5
Greenview winter Green	10	10.2	10	17.9	10	10.5
LUSTER LEAF PRODUCTS, INC.						
Luster Leaf Rapid Feed Phosphorus	44	44.6.				
NATIONAL PRODUCTS DIV., INC.						
Greenaid Plant Food	8	8.9	8	8.8	8	9.3
Green Thumb Flowering Plant Food	4	4.5	10	10.6	10	11.1
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Table 1. Analysis of individual	fertilizer samples (continued).

Table 1. Analysis of individual fertilizer samples (contin	uea).	N	P2	205	K	20
	Guar%	Found%	Guar%	Found%	Guar%	Found%
NEW PLANT LIFE	0	0.2	~			
New Plant Life Fern & Ivy Plant Food New Plant Life Cactus & Succulent Food	8	8.3 1.5	7 2	6.9 3.0	5 2	4.7 2.8
New I failt Elle Cactus & Succurent I ood	1	1.5	2	5.0	2	2.0
O. M. SCOTT & SONS CO.			_			
Scott's Next Generat. All Nat. Flower, Shrub & Tree	Fd. 5	6.3	5	8.4	5	4.3
OFFSHORE VENTURES, INC.						
Squanto's Secret Plant Food	2	2.2	4	5.0	2	2.2
OPTIFLORA, INC.						
Optimara Violet Food	14	14.0	12	14.0	14	14.2
Optimara Plant Food All Purpose-Houseplants	20	21.2	5	6.7	10	9.7
PLANTABBS CORP.						
Plantabbs African Violet Plant Food	11	14.0	15	15.0	20	19.2,
DIVIOUS CORP						
RINGER CORP. Ringer Tomato Restore	6	6.8	8	7.9	4	5.5
Tangor Tomato Tostoro		0.0	O.	7.2		0.0
ROSS DANIELS, INC.		10.5	2.4	0.7.6	10	
Ross Sprinkle Feeder Flower & Garden Plant Fd. Car Ross Gro-Stakes for Fruit & Ornam. Trees & Shrubs	rt. 12	13.5 12.5	24 16	25.6 15.3	12 16	11.7 15.8
Ross Gro-Stakes Fort, for Trees & Shrubs	16	18.0	10	9.6	9	8.9
1035 CIO-States Fort. 101 Frees to Silvatos	10	10.0	10	7.0	,	0.7
SCHULTZ CO.						
Schultz Instant Liquid Plant Food	10	11.3	15	16.4	10	10.4
SIERRA CHEMICAL CO.						
Osmocote Plant Food for Potting Mixes Plus Minors	17	17.1	6	8.1	10	10.4
STERN'S MIRACLE GRO PRODUCTS, INC.						
Stern's Miracle-Gro for Roses	18	18.9	24	24.4	16	17.8
Stern's Liquid Miracle-Gro Houseplant Food	8	8.3	7	7.8	6	6.2
Stern's Miracle-Gro Plant Food Spikes	6	6.5	12	15.0	6	6.2
SUDBURY LAWN & GARDEN PRODUCTS/DIV. OF	EADNIA	M CO INC				
Granny's Bloomers for African Violets	FARINA 6	7.6	5	5.9		
Granny's Jungle Juice	2	1.9	5	5.7	4	4.7
THE ANDERSONS		1818				-
Green Thumb Tomato & Vegetable Food	8	8.0	10	11.2	8 7	7.6
Green Thumb Evergreen Tree & Shrub Food	14	15.8	7	9.7	1	7.0
THE ESPOMA CO.						
Espoma Plant-tone	4	4.7	3	4.6	2	3.4
WEATHERLY CONSUMER PRODUCTS						
Jobe's All Natural Tomato Fertilizer Stakes	4	7.1	8	10.7	8	7.5
Jobe's Fertilizer Spikes for Prize Tomatoes	8	8.6	24	23.3	8	7.9
Jobe's Plant Food Spikes for Beautiful Flowering Plan	nts 10	11.2	10	12.1	4	5.0

Table 2. Multiple Nutrient Fertilizers Shipped in Connecticut from July 1, 1991 through June 30, 1992 l

Grade	Tons	Grade	Tons
0-10-40	27.2	16-8-8	23.1
0-15-30	22.8	18-6-12	29.8
1-1-1	29.6	18-46-0	19.0
2-2-1	121.2	19-3-4	22.2
2.2-27-0	41.9	19-3-12	183.1
3-4-3	19.1	19-19-19	310
4-5-2	21	20-3-3	212
4-5-4	94	20-3-5	83.4
4-6-4	771	20-3-10	18
5-3-4	57.2	20-4-10	56
5-10-5	725.4	20-5-10	263
5-10-10	486	20-8-8	27
5-10-15	36	20-10-10	431
6-1-3	21.8	20-10-20	27.1
6-2-2	536	20-20-10	39
6.4-2-1	145	20-20-20	87.8
7-7-7	14.8	22-0-22	32.5
8-2-1	13.5	22-3-6	13.9
8-4-4	20.8	22-4-8	86.1
8-8-8	107	24-3-5	15
8-12-4	43	24-3-7	89.8
8-16-16	31.4	25-3-3	122.5
9-17-9	137.5	25-3-5	153.4
10-5-10	56.2	25-3-6	15.8
10-6-4	613	25-3-8	63.9
10-10-10	2040	25-3-9	67
10-18-10	112.4	25-4-8	22.7
10-20-10	199	25-5-5	29
10-20-15	104.4	25-5-15	12.9
10-20-20	234.3	26-3-3	29.4
11-23-10	26.5	26-4-6	
12-4-8	28.2	27-3-3	129.1
12-12-12	17.1	28-3-3	39.9
12-12-12	15.2		699
13-13-13	19.2	28-3-4	231.4
13-25-12		28-3-10	216.1
14-3-6	67.2	28-4-8	71.8
14-14-14	49.2	28-4-12	74.8
14-14-14	178.8	28-5-11	41.3
15-0-15	29.5	29-3-4	880.2
15-2-3	10.2	30-3-3	102.6
15-3-5	17.2	30-10-10	21,3
	37.8	32-4-8	119.4
15-8-12	386.3	32-5-7	43
15-10-10	88		
15-15-15	504	tonnage of above grades	15763
15-30-15	131.8	miscellaneous	18365
16-4-8	157.9	total tonnage	34128

 $^{^{1}}$ To be included in the table a grade must have been manufactured by at least two manufacturers with a total tonnage for all manufacturers of greater than 10 tons.

Table 3. Tonnages of Selected Fertilizer Materials Sold in Connecticut from July 1,1991 to June 30, 1992

CHEMICAL NITROGEN		ORGANICS	
ammonium nitrate	107	blood, dried	5
calcium nitrate	131	compost	121
nitric acid	24.4	cottonseed meal	145
urea	1213	manure	2027
		sewage sludge, activated	535
PHOSPHATES			
diammonium phosphate	nium phosphate 16 SECONDARY AND MICRONUTRIE		
bone meal, steamed	41.9	aluminum sulfate	2
superphosphate, normal	31	borax	1
superphosphate, triple	68.5	ferrous sulfate	1
phosphate, not identified	10	iron chelate	2
		magnesia	2
POTASH		gypsum	114
muriate of potash, 60%	349.8	magnesium sulfate	1
potassium-magnesium sulfate 20.1		no code	7
potassium sulfate	33		
		LIMING MATERIALS	
		limestone	319

The Connecticut Agricultural Experiment Station,

founded in 1875, is the first experiment station in America. It is chartered by the General Assembly to make scientific inquiries and experiments regarding plants and their pests, insects, soil and water, and to perform analyses for State agencies. The laboratories of the Station are in New Haven and Windsor; its Lockwood Farm is in Hamden. Single copies of bulletins are available free upon request to Publications; Box 1106; New Haven, Connecticut 06504.