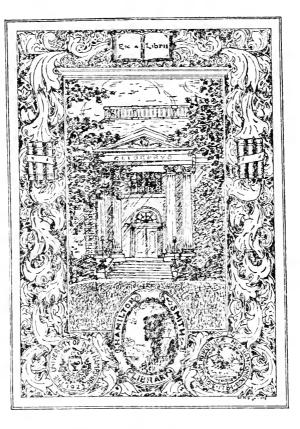
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## INSPECTION OF COMMERCIAL FERTILIZERS

## MADE FOR THE STATE DEPARTMENT OF AGRICULTURE

The inspection of commercial fertilizers reported in this bulletin was made under the direction of the Honorable Andrew L. Felker, Commissioner of Agriculture. The state inspector, Mr. Eugene D. Sanborn, collected samples of 108 brands of fertilizer materials which were offered for sale by dealers or had been delivered to consumers during the year ending June, 1933. The general character of the fertilizer materials collected is shown by the following elassification:

Complete fertilizer	86
Superphosphate (acid phosphate)	5
Nitrate of soda	1
Sulphate of ammonia	1
Cyanamid	1
Ground bone	3
Tankage	1
Natural manures	10
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## CHANGES IN THE FERTILIZER LAW

The Legislature of 1933 enacted two important changes in the fertilizer law. Section 1 has been amended to read as follows: Labeling. Every lot or pareel of commercial fertilizer or fertilizer material sold or offered or exposed for sale within this state shall be accompanied by a plainly printed statement, clearly and truly certifying the number of net pounds of fertilizer in the package, the name, brand or trademark under which the fertilizer is sold, the name and address of the manufacturer or importer, the location of the factory, and a chemical analysis stating the minimum percentage of nitrogen, of water soluble potash and of available phosphoric acid expressed in whole numbers.

The following new section 1-a has been enacted: No fertilizer or fertilizer material containing the three essential fertilizing elements nitrogen, potash and phosphoric acid may be sold or offered for sale if the total minimum plant food nutrients contained therein is less than fourteen per cent by weight, provided however that natural animal and bird manures shall be excepted from the provisions of this section.

The chief purpose of the fertilizer law is to protect the consumer against the low grade products which would doubtless soon appear upon the market if the distribution and sale of fertilizer was not under state regulation. The value of a fertilizer depends on its content of available plant food, i. e., nitrogen, phosphoric acid and potash. The presence of these constituents can only be determined by a chemical analysis. To insure that these constituents are being furnished by the manufacturer in guaranteed amounts it is necessary that each brand of fertilizer offered for sale be officially inspected and analyzed one or more times each year. When failure to meet the guarantee is proven by chemical analysis the prosecution or seizure provisions of the law may be invoked. The state official charged with the administration of the fertilizer law is the Commissioner of Agriculture. All inquiries concerning the law and all matters relative to the registration of brands should be addressed to his office in Concord.

In Table I are given the grades of complete fertilizers analyzed in this year's inspection, the number of brands found in each grade, the average analysis of each grade and the average retail price per ton.

Formula	Number of brands	Average per cent nitrogen	Average per cent total phosphoric acid	Average per cent available phos- phoric acid	Average per cent water soluble potash	Average retail price per ton
2-8-10	1	2.48	8,88	8.34	10.26	\$37.00
2 - 10 - 2	$\frac{1}{6}$	$2.48 \\ 2.28 \\ 2.22 \\ 3.17 $	10.85	10,29	2.15	28.16
2 - 12 - 4	3	2.22	12.73	11.97	4.15	34.33
3-10-4	6	3.17	10.85	10.46	3,90	34.06
3-10-6	1	3.25	10.66	10.09	6.37	30.00
1-4-0	$12 \\ 12 \\ 5$	4.34	12.84	9.54	0.00	76,00
1	12	4,13	8.84	8,40	4.07	30.70
1 - 8 - 7 1 - 8 - 8	5	4.07	8,89	8.50	7.01	33.70
4	1	4.45	8.76	8.39	8,98	31.00
4-8-10	13	4.10	8.73	8.35	9.79	39.66
4-10-5	$     \begin{array}{c}       1 \\       2 \\       1 \\       12     \end{array} $	3.85	10.11	9.68	5.56	38.00
4-10-6	1	4.41	10.71	10.50	7.20	31.00
4-124	2	4.18	13.14	12.52	4.28	65.50
5 - 8 - 6 5 - 8 - 7	1	5.35	11.44	9.54	6.59	140.00
-8-1	12	5.11	9.01	8.42	6.97	37.00
5-8-10	1	5.36	8.33	8.03	10.00	45.00
5 - 10 - 4 5 - 16 - 7	1	5.03	11.07	$\substack{10.27\\15.19}$	4.04	100.00
5 - 16 - 7 5 - 8 - 6	1	$5.00 \\ 6.38$	$16.36 \\ 9.02$		$\begin{array}{c} 7.14 \\ 6.61 \end{array}$	36.00 33.40
7 - 8 - 6	1 5	6.38 7.14	9.02 6,59	8.58	5.97	40.2
$\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{5}$	э 1	6.69	9.25	$6.42 \\ 8.71$	5.94	31.00
5 - 5 - 8		8.02	9.05	7.18	8.00	52.00
-3-3 -6-2	1 1	8.13	7.08	6.86	9.00	50.00
3-16-14	3	8.07	17.08	16.65	$\begin{array}{c}2.26\\14.22\end{array}$	47.1
-16 - 16	1	8.23	17.62	$10.03 \\ 17.32$	16.90	50.80
8-24-8	1	8.68	25,32	24.89	9.65	53.60
15 - 20 - 15	1	15.02	20,20	20.17	15.00	69.20
18 - 6 - 6	1	17.58	7.07	7.07	7.03	54.40

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## CONFORMITY TO GUARANTEE

Seventy-nine of the 108 brands analyzed equalled or exceeded the guarantees. Twenty-nine brands contained less than the guaranteed amount of one or more of the three constituents, nitrogen, available phosphoric acid and water soluble potash. No brand was found deficient in all three constituents.

	Number of Brands	Total Deficiencies
Nitrogen and available phosphorie acid	1	2
Nitrogen and potash	4	8
Nitrogen	5	5
Potash	14	14
Total phosphorie acid	<u>·</u> )	2
Available phosphoric aeid	3	3
	<u> </u>	
	29	34

A detailed summary of the deficiencies follows:

The total per cent of plant food nutrients guaranteed was less than the total per cent found in only five brands. Ten samples were deficient in nitrogen. Five of these brands were deficient less than 3 pounds of nitrogen per ton. One was deficient 8 pounds per ton and one was deficient 12.8 pounds per ton. The greatest deficiency is equivalent to about \$1.50 per ton, assuming the nitrogen present in the inorganic form and making no allowance for overrun in the other constituents which in this brand amounts to about \$1.00 per ton.

Only four samples were deficient in available phosphoric acid. Three of these deficiencies amount to less than fifty cents per ton and the maximum deficiency less than \$1.00 per ton.

There were eighteen samples deficient in potash. Sixteen of these deficiencies amount to less than fifty cents per ton. One was less than \$1.00 per ton. One deficiency was nearly \$2.00 per ton although overages in nitrogen and available phosphoric acid make up one-half the deficiency.

In the tabulation of the analyses in the following pages deficiencies of one-fourth of one per cent or more of nitrogen and one-half of one per cent or more of available phosphoric acid and water soluble potash are shown in

bold-faced type. A deficiency of more than one-half of one per cent in the total plant nutrients guaranteed is also shown in bold-faced type. The names of the manufacturers are arranged alphabetically, and under the manufacturer the different brands are arranged alphabetically or numerically by formula.

Guaranteed Found			Lot	Avanteed Avanteed Avanteed	Available Found Found	Polash beed	H Z	PER (	Per Cent
	000.00			Guaranteed	рипод	pəə			
						tasısud	րսոօյլ	bəətarısuD	punoA
AMERICAN AGRICULTURAL CHEMICAL CO. New York City, N. Y.			0						
AA Aroostook Potato Manure 5-8-7 5.00 5.15			8.94	1 8.00	8.74			7.00 20.00 20.89	20.89
Complete Manure with 10% Potash 4-8-10 4.00			8.63		8.39			9.61 22.00 22.03	22.03
Corn Favorite 3-10-4			10.31	_		4.00	4.031	17.00 17.22	17.22
Double Strength Fertilizer 8-16-14		_	17.07	_	_	14.00	14.38	4.38 38.00 38.95	38.95
Monarch 4-8-4 Fertilizer 4.00		-	8.58	8.00	8.21	4.00	3.86	$\frac{3.86}{2.86}$ 16.00 16.03	16.03
						7.00	7.03	7.03 19.00 19.51	19.51
Superphosphate 164	•		17.63	_	_	•		0 01 00 01 00 0	0000
00.1			0.00				-	19.00	00.41
Agrico 101 Aroostook With 10' ~ Fotash 3-8-10 3.00 3.30 Jamino for Com 2 10 6			8.33 10.66	6 10 00 8 10 00	8.03 10.09	6 00	-	6 37 19 00 19 79 9	15 21
2002			·		•			5.73 19.00 19.63	19.63
4.00			8.27				9.64	22.00	21.54
4.00			-	_			5.56	5.56 19.00 19.09	19.09
2.00					_	2.00	2.00	14.00	14.63
4.00				2 8.00		4.00	4.02	4.02 16.00	16.27
5-8-7 5.00			_		8.31	7.00	7.00	20.00	20.17

				-	1						I
Bowker's Stockbridge Potato and Vegetable Manure 4-8-10	4.00 3.00 2.00 1.23	$\begin{array}{c} 4.51 \\ 2.29 \\ 1.33 \\ 1.40 \end{array}$	1.00	$\begin{array}{c} 8.27 \\ 10.84 \\ 8.58 \\ 10.65 \\ 0.89 \end{array}$	8.00 8.00 10.00	$\begin{array}{c} 8.00 \\ 10.56 \\ 8.26 \\ 10.07 \\ 0.84 \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 10.00\\ 4.00\\ 10.12\\ 2.00\\ 2.00\end{array}$	22.00 17.00 22.00 14.00	22.22	
AMERICAN CYANAMID Co. NIAGARA FALLS, CANADA G. C. Aero Cyanamid Granular	22.00 22.04	22.04			-						:
APOTHECARIES HALL CO. WATERBURY, CONN.											
Liberty Bone Meal Liberty Corn 2-10-2 Liberty High Grade Corn 2-12-4 Liberty High Grade Corn 2-12-4 Liberty Market Gardeners Special 4-8-4 Liberty Potato and General Crops 4-8-10 Liberty Potato and General Crops 4-8-10 Liberty Potato and Vegetable 2-8-10 Liberty Special Fertilizer for Lawns, Trees, Shrubs, Flowers and Gardens Sheep Manure Superphosphate (Acid Phosphate)		$\begin{array}{c} 2.46 \\$	$\begin{array}{c} 24.08\\ 2.46\\ 5.246\\ 4.22\\ 4.22\\ 2.48\\ 2.142\\ 2.48\\ 2.12\\ 2.00\\ 1.00\\ 9.14\\ 3.00\\ \end{array}$	$\begin{array}{c} 221.30\\ 120.87\\ 8.8667\\ 8.8667\\ 8.88667\\ 122.84\\ 122.84\\ 9.996\\ 9$	$\begin{array}{c} 10.00 \\ 12.00 \\ 8.00 \\ 8.00 \\ 8.00 \\ 8.00 \\ 8.00 \\ 16.00 \\ 1 \end{array}$	$\begin{array}{c} 13.19\\ 12.09\\ 8.36\\ 8.34\\ 8.34\\ 8.34\\ 8.34\\ 8.34\\ 8.34\\ 8.34\\ 8.34\\ 8.34\\ 8.34\\ 12.11\\ 17.31\\$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 2.42 \\ 4.56 \\ 6.85 \\ 4.13 \\ 4.13 \\ 10.16 \\ 10.26 \\ 2.33 \\ 2.33 \end{array}$	22.000	22.06.1	8022222

	NITROGEN	GEN	PH	PHOSPHORIC ACID	RIC A	CID	¢		Te	Total
	羅		Total	tal	Available	able	POTASH	ASH	PER	Per Cent
	beetnarandeed	punoJ	Guaranteed	рипод	Guaranteed	punoA	Guaranteed	punoJ	Guaranteed	PunoJ
Atmospheric Nitrogen Corporation Hopewell, Va.										
Arcadian Nitrate of Soda	$16.00 \pm 16.23$	16.23								
C. F. Buell, Inc. Boston, Mass.										
Two-in-One Peat Poultry Manure	2.75	2.91		2.24	2.50	2.50 1.94 1.25	1.25	1.78		
Burlington Rendering Co. Burlington, Vt.										
Burlington 3-10-4 Fertilizer Burlington 4-8-4 Fertilizer Burlington 4-8-7 Fertilizer Burlington 4-8-10 Fertilizer Burlington 7-6-6 Fertilizer	3.00 4.00 4.00 4.00 7.00	3.05 4.30 4.30 3.73 6.96		$\begin{array}{c} 10.88 \\ 9.41 \\ 9.19 \\ 8.96 \\ 6.58 \\ \end{array}$	$ \begin{array}{c} 10.00\\ 8.00\\ 8.00\\ 6.00\\ 6.00 \end{array} $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 4.00 \\ 4.00 \\ 7.00 \\ 6.00 \end{array}$		3.88   17.00   17.43 4.02   16.00   17.24 7.00   19.00   19.74 <b>9.10</b> 22.00 <b>21.39</b> 6.00   19.00   19.40	3.88 17.00 17.43 4.02 16.00 17.24 7.00 19.00 19.74 <b>9.10</b> 22.00 <b>21.39</b> 6.00 19.00 19.40

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	EASTERN STATES FARMERS' EXCHANGE SPRINGFIELD, MASS. Eastern States 4-8-8 Open Formula Fertilizer Eastern States 4-10-6 Open Formula Fertilizer Eastern States 4-12-4 Open Formula Fertilizer Eastern States 8-16-16 Open Formula Fertilizer Eastern States 8-24-8 Open Formula Fertilizer Eastern States 15-20-15 Open Formula Fertilizer Eastern States 16% Superphosphate	Essex FERTILIZER CO. Bosron, MASS. Essex 2-10-2 AI Super Essex 3-10-4 Fish Brand Fertilizer for All Crops Essex 4-8-1 Market Garden Essex 4-8-10 Peerless Potato Manure Essex 5-8-7 Complete Manure

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N. H. AGR.	EXPERIMENT STATION	[Bulletin 278
1	: OK#210	1000007 <del>4</del>
punoA	64649 :	126216
	: 39222	222116
Guarantee	00000	0000000
jootuonon.)	320.222.	222.22
	1.04.04.7.0	

	NITROGEN	EN	Рн	IOHASC	PHOSPHORIC ACID	CID			TOTAL.	AL.
			To	Total	Available	able	POTASH	HS	PER	PER CENT
	Guaranteed	punog	Guaranteed	punoA	6uaranteed	punog	Guaranteed	punoJ	Guaranteed	PunoA
International Agricultural Corporation Woburn, Mass.					·			i i		
International 4-8-4 International 4-8-10 International 5-8-7 International 7-6-6 International 8-16-14 International 8-16-14 International Caribee Sheep Manure	$\begin{array}{c} 4.00\\ 5.00\\ 7.00\\ 8.00\\ 1.02 \end{array}$	4.00 4.09 4.88 <b>6.36</b> 8.08 8.08 1.56		$\begin{array}{c} 8.54\\ 9.01\\ 8.85\\ 6.84\\ 6.84\\ 17.67\\ 1.16\end{array}$	$\begin{array}{c} 8.00\\ 8.00\\ 8.00\\ 6.00\\ 16.00\\ 0.50\end{array}$	8.36 8.77 8.67 8.67 6.68 1.7.37 1.08	$\begin{array}{c} 10.00\\ 10.00\\ 7.00\\ 6.00\\ 2.00\\ 2.00 \end{array}$	$\begin{array}{c} 4.40\\ 9.62\\ 6.79\\ 6.48\\ 14.15\\ 2.02\\ 2.02\end{array}$	4.40         16.00         16.76           9.62         22.00         22.48           6.79         20.00         20.34           6.48         19.00         19.52           4.15         38.00         39.60           2.02         23.00         39.60	$\begin{array}{c} \textbf{4.40} 16.00 \ 16.76\\ \textbf{9.62} 22.00 \ 22.48\\ \textbf{6.79} 20.00 \ 20.34\\ \textbf{6.48} 19.00 \ 19.52\\ \textbf{14.15} \ \textbf{38.00} \ \textbf{39.60}\\ \textbf{2.02} \ \dots \dots \dots \dots \end{array}$
Lowell, Fertuizer Co. Boston, Mass.										
Lowell 2-10-2 Bone Brand Lowell 2-10-4 Animal Brand Lowell 3-10-4 Animal Brand Lowell 4-8-4 Corn and Vegetable Lowell 4-8-10 Potato Grower Lowell 4-8-10 Potato Grower Lowell 5-8-7 Market Garden Manure	$\begin{array}{c} 2.00\\ 3.00\\ 4.00\\ 5.00\end{array}$	2.32 3.12 4.20 5.14		$\begin{array}{c} 10.56 \\ 11.08 \\ 8.88 \\ 9.06 \\ 9.06 \\ 8.61 \\ 8.61 \\ 9.07 \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 10.04 \\ 10.56 \\ 8.32 \\ 8.63 \\ 8.60 \\ 8.60 \end{array}$	$\begin{array}{c} 2.00\\ 4.00\\ 4.00\\ 7.00\\ 7.00\end{array}$		$\begin{array}{c} 2.29\\ 4.05\\ 17.00\\ 17.03\\ 17.00\\ 16.00\\ 16.00\\ 16.59\\ 7.03\\ 19.00\\ 19.66\\ 10.29\\ 22.00\\ 22.53\\ 7.00\\ 20.00\\ 20.74\\ \end{array}$	$\begin{array}{c} 14.65\\ 17.73\\ 16.59\\ 19.66\\ 222.53\\ 220.74 \end{array}$

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Dec., 19	33]	FERTILIZER	INSPEC	TION	s, 193	.)		11
	$\begin{array}{c} 2.16 \\ 14.00 \\ 17.00 \\ 17.03 \\ 4.02 \\ 16.00 \\ 16.98 \\ 6.90 \\ 19.00 \\ 19.38 \end{array}$	$\begin{array}{c} 10.39 & 22.00 & 22.97 \\ 6.85 & 20.00 & 20.46 \\ 7.14 & 28.00 & 27.33 \\ 5.65 & 19.00 & 19.44 \\ 5.03 & 20.00 & 20.43 \end{array}$				$\begin{array}{cccccccccccccccccccccccccccccccccccc$		6.59 19.00 21.48
	14.00 17.00 16.00 19.00	222.00 220.00 28.00 20.00				16.00 22.00		19.00
		$\begin{array}{c} 0.39\\ 6.85\\ 7.14\\ 5.65\\ 5.65\\ 5.03\end{array}$		2.54		$\frac{4.14}{10.00}$	6	6.59
	$2.00 \\ 4.00 \\ 7.00$	00000		2.00		$\frac{4.00}{10.00}$		6.00
		8.49 10 8.55 8.55 15.19 6.17 8.71 8.71		1.06		8.30		9.54
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8.00 8.49 8.00 8.55 6.00 8.55 6.00 6.17 8.00 8.71		$2.00  2.50  \dots \dots  1.29  1.00  1.06  2.00  2.54$		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		5.00 $5.35$ $11.44$ $8.00$ $9.54$
	$\begin{array}{c} 0.90 \\ 0.69 \\ 0.69 \\ 1.13 \\ 8.82 \\ 8.82 \end{array}$	$\begin{array}{c} 8.98 \\ 8.85 \\ 16.36 \\ 1.24 \\ 9.25 \\ 9.25 \end{array}$		1.29		$8.78 \\ 8.61 \\ 8.61$		1.44
				:				1
	$\begin{array}{c} 2.21 \\ 3.12 \\ 4.26 \\ 4.00 \\ \end{array}$	4.09 5.00 5.00 6.69		2.50		4.07 4.12		5.35
	2.00 3.00 4.00			2.00		$4.00 \\ 4.00$		5.00
Merkimack Farmers' Exchange Concord, N. H.	Brand Brand Brand		NATURAL GUANO CO. Aurora, Ill.	Sheep Head Brand Pulverized Sheep Manure	NEW ENGLAND FERTILIZER CO. BOSTON, MASS.	New England 4-8-4 Potato and Vegetable Manure New England 4-8-10 Complete Manure	OLDS & WHIPPLE, INC. Hartford, Conn.	Luxura Plant Food

	NITROGEN	GEN	ΡH	PHOSPHORIC ACID	RIC A	CID	Ę		To	Total
			$T_0$	Total	Available	able	TOT	FOTASH	PER	PER CENT
	beetnerend	punoJ	Guaranteed	punoA	Guaranteed	punoz	Guaranteed	punoA	6uaranteed	punog
PORTLAND RENDERING CO. Portland, Me.										
Portland Organic Fertilizer 4-8-4 Portland Organic Fertilizer 4-8-7 Portland Organic Fertilizer 4-8-10 Portland Organic Fertilizer 5-8-7	$ \frac{1.00}{5.00} $	4.03 4.12 5.00		$8.79 \\ 8.76 \\ 8.39 \\ 9.02 \\ 9.02 \\$	$\begin{array}{c} 8.00\\$	8.36 8.40 8.09 8.57	$^{4.00}_{7.00}$	$\begin{array}{c} 4.00 & 16.00 & 16.39 \\ 7.00 & 10.00 & 19.58 \\ 10.26 & 22.00 & 22.47 \\ 7.13 & 20.00 & 20.70 \end{array}$	$\begin{array}{c} 16.00 \\ 19.00 \\ 22.00 \\ 20.00 \end{array}$	$\begin{array}{c} 16.35 \\ 19.58 \\ 22.47 \\ 20.70 \end{array}$
Pulverized Manure Co. Chicago, Ill.										
Wizard Brand Cattle Manure	2.00	2.16	2.16	1.22	1.00	1.04	1.00	1.70		
John Reardon & Sons Co. Cambridge, Mass.										
Ground Bone	2.47	3.73	3.73 22.88 23.52		14.77	14.77				

Rogens & Hubbard Co.
PORTLAND, CONN.
Hubbard's All Soils All Crops Fertilizer 4-8-44.00Hubbard's Corn and Grain Fertilizer 2-12-42.00Hubbard's Potato Fertilizer 5-8-75.00
SWIFT & Co. Balttimore, Md.
Vigoro for Lawns, Gardens, Flowers, Shrubbery, Trees
Loma 5.00 Soil-Prep 4-2-2 4.00

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	NITROGEN	GEN	$\mathbf{P}_{\mathbf{H}}$	PHOSPHORIC ACID	RIG A	CID			T0	TOTAL
			$T_0$	Total	Available	able	FUTASH	HSI	PER	Per Cent
	Guaranteed	punoJ	Guaranteed	punoJ	Guaranteed	punoJ	Бөөтаянда	punoJ	Guaranteed	punog
Virginia-Carolina Chemical Corp. Baltimore, Md.										
Aroostook Potato Grower 5-8-7 Owl Brand Fertilizer 2-12-4 Sheep Manure	$5.00 \\ 2.00 \\ 1.65$	$5.19 \\ 2.00 \\ 2.07 $	• •	$\begin{array}{c} \begin{array}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$ \begin{array}{c} 8.00 \\ 12.00 \\ \dots \\ \end{array} $	$\begin{array}{c} 8.72 \\ 8.72 \\ 12.62 \\ 12.00 \\ 1.85 \\ \dots \\ 1.71 \end{array} \\ 8.40 \\ 1.71 \\ 1.71 \end{array}$	$7.00 \\ 4.00 \\ 1.50 \\ $	7.32 3.79 1.78	$20.00 \\ 18.00$	7.32 20.00 20.91 3.79 18.00 17.81 1.78
WALKER-GORDON FARMS JULJUSTOWN, N. J.	Vie rec									
Driconure 1-1-1	1.00	$1.00  1.84  1.00  0.87  \dots  0.71  1.00  1.58$	1.00	0.87		0.71	1.00	1.58		

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