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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 109 brands of fertilizer materials which were offered for sale by dealers or had been delivered to consumers during the year ending June, 1932. The general character of the fertilizer materials collected is shown by the following classification:

Complete fertilizer	85
Superphosphate (acid phosphate)	6
Nitrate of Soda	1
Sulphate of ammonia	2
Ground bone	4
Tankage	1
Natural manures	10
	100

#### THE FERTILIZER LAW

The New Hampshire fertilizer law applies to all fertilizer materials offered for sale, whether mixed materials in the form of complete fertilizers or unmixed materials as superphosphate (acid phosphate), nitrate of soda, ground bone, tankage, etc. Under the provisions of the law every manufacturer or dealer who shall sell or offer for sale any fertilizer material shall furnish with each lot or package a clearly printed statement certifying the brand name under which it is sold, the name and address of the manufacturer, the number of net pounds the package contains and a chemical analysis stating the minimum percentages of nitrogen, of available phosphoric acid and of water soluble potash. No person shall sell or offer for sale any pulverized leather, hair or wool waste, peat, garbage tankage, or any inert material whatsoever, without an explicit printed statement of the fact conspicuously fixed to every package of such material. The state official in charge of the administration of the fertilizer law is the Commissioner of Agriculture.

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	3	2.19	8.92	8.40	10,09	\$35.40
2-10-2	0	2.06	11.06	10.23	2.09	30.00
2-12-4	1	2.10	13,15	12.52	4.29	42.50
3-10-4	ŝ	2.40	10.00	12,97	6.90	28.80
36	1	3.45	10.59	10.25	4.00	35.20
4-6-10	1	4 33	6 75	6.55	10.094	37.00
4-8-4	13	4.07	9.01	8.30	4.04	25.80
4-8-7	4	4.02	8.93	8.90	6.87	35.50
4-8-8	1	4.49	8.49	8.31	9.33	31.20
4	12	4.09	8.87	8.30	9.95	41.80
4-10-5	1	4.17	10.91	10.00	5.31	37.00
4 - 12 - 4	3	4.26	12.94	12.52	4.62	31.10
5-8-7	15	5.09	8,95	8.36	6.96	41.20
5-8-10	1	5.07	8.65	8.23	10.23	55.00
5-104	1	5.07	11.22	10.12	4.00	120.00
5-16-7	1	5.33	17.23	16.41	6.91	40.00
/b	õ	7.15	6.64	6.35	5.77	43.60
7 8 6	1	0.88	9.59	8.65	5.17	37.00
	1	7.29	8,62	8.40	6.86	45.00
8-16-14	1	2.80	8,75	8.25	2.37	60.00
8-16-16	2	2.02	10.43	15,98	14.43	53.50
10 - 16 - 20	1	9.03	16.54	16.33	16,98	53.00
10 10 - 20	1	0.00	10.04	10.20	20.10	62.00

TABLE I

In Table I are given the grades of complete fertilizers collected, the number of brands found in each grade, the average analysis of each grade and the average retail price per ton. This table is prepared to call the purchaser's attention to the greater values to be secured in certain of the higher grades.

#### CONFORMITY TO GUARANTEE

Forty of the 109 brands analyzed were found to contain less than the guarantee of one or more of the three constituents. The total number of guarantees on the 109 brands was 307, the total number of deficiencies 46, the per cent of the guarantees deficient 15.0. In last year's inspection this figure was 11.7 per cent. The previous year it was 13.0 per cent. Many of the deficiencies were comparatively negligible, the small deficiency in one constituent being offset in value by overrun in other constituents.

A detailed summary of the deficiencies in the 40 brands which failed to meet the guarantees follows:

	Number of Brands	Total Deficiencies
Nitrogen, total phosphoric acid, available		
phosphoric acid and potash	0	0
Nitrogen, total phosphoric acid and		
potash	0	0
Nitrogen, available phosphoric acid and potash	1	3
Nitrogen, total phosphoric acid and avail-		
able phosphoric acid	0	0
Nitrogen and total phosphoric acid	0	0
Nitrogen and available phosphoric acid	0	0
Nitrogen and potash	2	4
Nitrogen	10	10

Total phosphoric acid, available phos-		
phorie acid and potash	0	0
Total phosphoric acid and potash	0	- 0
Available phosphoric acid and potash	0	0
Potash	21	21
Total phosphoric acid and available phos-		
phorie aeid	2	4
Total phosphorie acid	2	2
Available phosphoric acid	2	2
	40	.16

#### NITROGEN DEFICIENCIES

One hundred three brands were guaranteed to contain nitrogen in amounts varying from 1.00 per cent to 20.56 per cent. Thirteen brands failed to meet the guarantee. Five of these brands were deficient less than 2 pounds of nitrogen per ton. Six were deficient more than 2 pounds but less than 4.5 pounds per ton. One was deficient 6.2 pounds per ton and one 6.6 pounds per ton. The greatest deficiency is equivalent to only about \$1.00 per ton, assuming the nitrogen present in the inorganic form.

#### PHOSPHORIC ACID DEFICIENCIES

One hundred seven brands were guaranteed to contain phosphoric acid. Nine brands failed to meet the guarantees. Two were deficient in total phosphoric acid, five in available phosphoric acid and two in both total and available phosphoric acid. None of these deficiencies amount to as much as \$1.00 per ton.

#### POTASH DEFICIENCIES

Ninety-five samples were guaranteed to contain potash. Twenty-four failed to meet the guarantee. None of the deficiencies amount to as much as \$1.00 per ton.

#### UNIFORMITY IN GUARANTEES

The movement for national uniformity in stating fertilizer guarantees has made rapid progress. There are now not more than four states which have not adopted the proposed method. The changes were sponsored not only by the state officials charged with the enforcement of the fertilizer laws but also by the National Fertilizer Association, the leading agricultural papers and the Association of Official Agricultural Chemists. The principal changes which have been put into effect were those proposed in last year's bulletin as follows:

1. When fertilizers are registered with the state fertilizer control official the guaranty shall be stated in terms of nitrogen and not in terms of ammonia.

2. Grades or analyses of mixed fertilizers shall be expressed in whole units and not in fractions or decimals

3. Trade or brand names shall include the numerals giving the minimum percentage of each plant food in the order - nitrogen, available phosphoric acid, and potash.

Results of the change already apparent are the elimination of fractional guarantees, a fractional increase in the amount of nitrogen in many brands and a decrease in the uneconomical multiplicity of grades.

In the tabulation of the analyses in the following pages deficiencies of two-tenths of one per cent or more are 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.

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	NITRO	GEN	P	HOSPHC	BRIC AC	(ID)	Por	ASH
			TOLS	1	INVAL	Iaure		
	bəət		рәәұ		рәәұ		pəəq	
	นธารมมี	punog	nsreut	puno	nerent	punog	nsrant	punog
	~		)	 [	)	E -	)	1
CULTURAL CHEMICAL CO. V YORK CITY					•			
vith 10% Potash 4-8-10	4.00	4.09		8.76	8.00	8.16	10.00	10.00
F-	3.00	3.14		11.17	10.00	10.52	4.00	3.68
"ertilizer 8-16-14	8.00	8.31		16.91	16.00	16.40	14.00	14.00
4-8-4	4.00	3.95		8.53	8.00	8.01	4.00	3.80
anure 4-8-7	4.00	4.06		9.54	8.00	8.67	7.00	7.00
h Fertilizer 2-8-10	2.00	2.13		8.91	8.00	8.16	10.00	10.09
%			:	17.55	16.00	16.67		
	2.00	7.20		7.11	6.00	6.57	6.00	5.64
L-8-	5.00	5.19		8.87	8.00	8.17	2.00	6.77
	3.00	3.45	:	10.52	10.00	10.12	6.00	6.94
es and Shrubs 7-6-6	00.7	00.7		1.03	6.00	6.57	0.00	6.00
1d 4-8-10	4.00	4.13		9.05	8.00	8.70	10.00	10.11
-0	4.00	4.17		10.91	00.01	10.00	0.00	5.31
Jre 0-8-7	00.0	01.0		10.01	8.00	8.10	00.1	6.79
ardan Phosnhata 9-10-9	00.0	010		10.89	10.00	10.15	9.00	1.01
Toulin Cuon Monimo E 0 7	100	100		10.01	00.01	2000	00.1	
arth or of mainte a-a- i mining	0.00	0.00		10.0	0.00	110.0	100.1	60.0

10.00 1.87 <b>3.64</b> 2.43 2.43		$10.08 \\ 7.06 \\ 4.49$	10.88 6.86				3.10
$\begin{array}{c} 10.00\\ 10.00\\ 2.00\\ 10.00\\ 2.00\\ 2.00 \end{array}$		$10.00 \\ 7.00 \\ 4.00$	10.00 6.00				3.00
$\begin{array}{c} 8.55\\ 8.28\\ 8.28\\ 10.35\\ 10.84\\ 8.16\\ 0.68\end{array}$		6.55 8.54 8.61	8.53     8.40     17.38				0.63
$\begin{array}{c} 8.00\\ 8.00\\ 10.00\\ 10.00\\ 0.70\\ 0.70 \end{array}$		6.00 8.00 8.00	8.00 8.00 16.00				
9.03 9.10 9.10 111.07 111.14 8.64 <b>0.80</b>		$6.75 \\ 8.78 \\ 8.91 \\ 8.91$	8.85     8.62     8.62     17.82				0.77
1.00							0.75
$\begin{array}{c} 4.08\\ 4.00\\ 2.13\\ 3.14\\ 4.04\\ 1.27\\ 1.27\end{array}$		$4.33 \\ 5.22 \\ 4.21 \\ 4.21 \\ 1.21 \\ $	$2.24 \\ 7.29$		16.07		1.40
$\begin{array}{c} 4.00 \\ 4.00 \\ 3.00 \\ 1.23 \\ 1.23 \end{array}$		4.00 5.00 4.00	2.00		16.00		1.46
Bowker's Stockbridge Potato and Vegetable Manure 4.8.10 Bradley's Complete Manure with 10% Potash 4.8.10 Bradley's Eclipse Fertilizer 2-10-2 Bradley's XL Fertilizer 3-10-4 F. Frank Coe's Standard Potato Fertilizer 4.8-10 Pulverized Sheep and Goat Manure	APOTHECARIES HALL CO. WATERBURY, CONN.	4-6-10	Liberty Potato and Vegetable 2-8-10	ATMOSPHERIC NITROGEN CORPORATION HOPEWELL, VA.	Arcadian Nitrate of Soda	Joseph Breck & Sons Boston, Mass.	Breck's Ram's Head Brand Pulverized Sheep Manure

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HSK.		punoJ		<b>9.29</b> 4.05	4.08 6.77	<b>9.47</b> 4.16				$14.86 \\ 2.54$
POT		b993naranteed		10.00 4.00	4.00	$10.00 \\ 4.00$				$14.00\\2.00$
an	lable	punoA		8.52	8.21 8.06	$   \frac{8.11}{12.02} $				15.55 0.86
DRIC AC	Avail	Guaranteed		8.00 10.00	8.00	$^{8.00}_{12.00}$				16.00
HOSPH(	otal	punoA		9.01 11.00	8.81 8.48	$8.63 \\ 12.85$				$15.95 \\ 0.94$
Р	To	Guaranteed								0.50
OGEN		punoA		2.19 3.05	$3.92 \\ 4.00$	$\frac{4.00}{4.19}$		20.93		$8.02 \\ 1.33$
NITR		Guaranteed		2.00 3.00	4.00 4.00	4.00		20.56		$8.00 \\ 1.23$
			BURLINGTON RENDERING CO. BURLINGTON, VT.	Burlington 2-8-10 Fertilizer Burlington 3-10-4 Fertilizer	Burlington 4-8-4 Fertilizer Burlington 4-8-7 Fertilizer	Burlington 4-8-10 Fertilizer	CONNECTICUT COKE CO. New HAVEN, CONN.	Arcadian Sulphate of Ammonia	CONSOLIDATED RENDERING CO. BOSTON, MASS.	Jorenco 8-16-14

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L	ee., 1932]		FERTILIZ	ER INS	SPECTION, 19	32		9
	2.37		$3.82 \\ 10.00 \\ 7.13 \\ \dots$		6.90 9.33 5.65 16.98		$\begin{array}{c} 2.33 \\ 4.05 \\ 3.86 \end{array}$	
	2.00		4.00 10.00 7.00		$6.00 \\ 8.00 \\ 4.00 \\ 16.00 \\ \cdots \cdots$		$2.00 \\ 4.00 \\ 4.00$	
	8.25 16.70		8.41 8.17 8.39		$\begin{array}{c} 12.97\\ 8.31\\ 8.31\\ 12.89\\ 16.33\\ 32.23\\ 32.23\end{array}$		$10.20 \\ 10.31 \\ 8.06$	
	 6.00 16.00		8.00 8.00 8.00		$12.00\\8.00\\16.00\\32.00\\32.00$		$10.00 \\ 10.00 \\ 8.00$	
	$26.53 \\ 9.65 \\ 8.75 \\ 17.58 $		$9.56 \\ 9.07 \\ 9.09 \\ 25.33$		$13.06\\8.49\\8.49\\13.09\\16.67\\32.38$		$11.38 \\ 11.02 \\ 9.25$	
	22.00 9.15 		24.00		32.50			
	1.74 8.31 7.80		$\begin{array}{c} 4.02 \\ 4.08 \\ 5.14 \\ 2.80 \end{array}$		2.46 4.49 4.68 8.03		2.02 3.08 4.01	
	2.05 7.41 8.00		$\begin{array}{c} 4.00\\ 4.00\\ 5.00\\ 2.00\end{array}$		2.00 4.00 8.00		2.00 3.00 4.00	_
	Ground Bone	JOHN C. DOW CO. BOSTON, MASS.	Dow's 4-8-4 Fertilizer	EASTERN STATES FARMERS' EXCHANGE Springfield, Mass.	Eastern States 2-12-6 Open Formula Fertilizer Eastern States 4-8-8 Open Formula Fertilizer Eastern States 4-12-4 Open Formula Fertilizer Eastern States 8-16-16 Low Chorine Special Eastern States 32% Double Superphosphate	ESSEX FERTILIZER CO. BOSTON, MASS.	Essex A1 Super 2-10-2	

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	NITROG	EN	PI	0HdS01	RIC AC	B	P01	ASH
			Tot	al	Avail	lable		
 Guaranteed	6uaranteed	punoA	beetnaranD	punoJ	Guaranteed	punoA	Guaranteed	punoA
Essex 4-8-10 Peerless Potato Manure 4.0 Essex 5-8-7 Complete Manure 5.0	4.00 $5.00$	4.15		8.83 9.11	8.00 8.00	8.23 8.39	10.00 7.00	<b>9.71</b> 6.88
HUDSON VALLEY FUEL CORPORATION TROY, N. Y.								
Nusoil Sulphate of Ammonia	0.50 2	96.03						******
INTERNATIONAL AGRICULTURAL CORP. Woburn, Mass.								
30ne Meal 2.4	2.47 3.00	2.52	22.00	$24.40 \\ 9.96$	10.00	9.46	4.00	4.39
international 4-8-4	4.00 4.00	$4.01 \\ 4.22$		$8.22 \\ 8.58$	$8.00 \\ 8.00$	8.00 8.22	$4.00 \\ 10.00$	$4.00 \\ 10.05$
international Caribee 5-8-7 5.0	5.00 5.00	$\frac{4.89}{5.28}$		$8.54 \\ 8.58 \\ $	$8.00 \\ 8.00$	8.00 8.00	7.00	7.00
nternational 7-0-0 7.0 7.0 10-16-20 7.0 10.00	0.00	7.25		6.31 16.54	6.00	6.11	0.00	5.78
International 16% Superphosphate				17.38	16.00	16.68		

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4.39 4.00 6.73 5.79		$2.31 \\ 4.16 \\ 4.00$	<b>6.72</b> 9.86 7.00	6.91 5.62 5.17		2.75
4.00 4.00 7.00 6.00		2.00 4.00	$\left  \begin{array}{c} 7.00 \\ 10.00 \\ 7.00 \end{array} \right $	$7.00 \\ 6.00 \\ 5.00$		2.00
10.15 8.19 8.19 6.00		$10.13 \\ 10.28 \\ 8.49$	$8.16 \\ 8.59 \\ 9.02 \\ 9.02 \\ 16 \\ 102 \\ 1$	$16.41 \\ 6.50 \\ 8.65$	1	1.11
10.00 8.00 8.00 6.00		$10.00 \\ 10.00 \\ 8.00$	8.00 8.00	$16.00 \\ 6.00 \\ 8.00$		1.00
$11.50\\8.99\\9.11\\6.15$		$11.05 \\ 11.17 \\ 9.44$	9.07 9.27 9.34	$ \begin{array}{c} 17.23 \\ 6.62 \\ 9.59 \end{array} $	·	1.29
3.27 4.16 5.00 7.00		2.03 3.22 4.14	4.02 4.08 5.17	5.33 7.31 6.88		2.34
3.00 5.00 7.00		2.00 3.00 4.00	4.00 4.00 5.00	7.00 7.00		2.00
Lowell FERTILIZER Co. Boston, Mass. Lowell 3-10-4 Animal Brand for All Crops Lowell 4-8-4 Corn and Vegetable Lowell 5-8-7 Market Garden Manure	Merrimack Farmers' Exchange Concord, N. H.	Merrinack Brand 2-10-2 Merrimack Brand 3-10-4 Merrimack Brand 4-8-4	Merrimack Brand 4.8-7 Merrimack Brand 4.8-10 Merrimack Brand 5.8-7	Merrimack Brand 5-16-7 Special Potato Fertilizer Merrimack Brand 7-6-6 Top Dressing	Natural Guano Co. Aurora, Ill.	Sheep Head Brand Pulverized Sheep Manure

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ASH		Found		$\begin{array}{c} 4.00 \\ 10.00 \\ 7.00 \end{array}$				2.51
PoT.		b997navau2		$\begin{array}{c} 4.00 \\ 10.00 \\ 7.00 \end{array}$				3.00
9	able	punog		8.24 8.23 8.63				0.49
RIC AC	Avail	b993naranteed		8.00 8.00 8.00				0.75
OHASOH	tal	punoA		$9.27 \\ 8.95 \\ 9.32$		26.25		0.65
Ч	Tot	Guaranteed				25.17		
DGEN		panoA		4.09 4.12 5.18		2.12		1.30
N ITR(		Guaranteed		$4.00 \\ 5.00$		2.08		1.50
			NEW ENGLAND FERTILIZER CO. BOSTON, MASS.	New England 4-8-4 Potato and Vegetable Manure New England 4-8-10 Complete Manure New England 5-8-7 Market Garden Manure	NEW ENGLAND RENDERING CO. BRIGHTON, MASS.	Ground Bone	Pacific Manure & Fertilizer Co. San Francisco, Cal.	Groz-It Brand Pulverized Sheep Manure

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4.03	7.00	2.03 4.38 7.23 7.23 10.22	1.30	2.73	4.08
4.00	2.00	$2.00 \\ 4.00 \\ 7.00 \\ 7.00 \\ 10.00 \\ $	1.30	2.00	4.00
8.56	8.52	$10.30\\8.48\\8.21\\8.32\\8.32\\8.23\\8.23$	1.88	1.14	8.55
8.00	8.00	10.00 $8.00$ $8.00$ $8.00$ $8.00$ $8.00$ $8.00$	2.50	1.00	8.00
9.08	8.92	$10.98 \\ 8.74 \\ 8.53 \\ 8.65 \\ 8.65 \\ 8.65 \\ 8.65 \\ 10.98 \\ 10$	1.98	1.32	9.29
			2.75		
4.14	4.93	2.00 4.06 5.00 5.07	5.09	1.67	4.01
4.00	5.00	2.00 4.00 5.00 5.00	4.93	2.00	4.00
PARMENTER & POLSEY FERTILIZER Co. Boston, Mass. P&P 4-8-4 Corn and Vegetable Fertilizer	P&P 5-8-7 Potato and Vegetable PORTLAND RENDERING CO. PORTLAND, ME.	Portland Organic Fertilizers 2-10-2	PREMIER POULTRY MANURE CO. CHICAGO, ILL. Premier Brand Pulverized Poultry Manure	PULVERIZED MANURE CO. CHICAGO, ILL. Wizard Brand Pulverized Sheep Manure	Rogers & HUBBARD Co. Portland, Conn. Hubbard's All Soils All Crops Fertilizer 4-8-4

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Тоtal         Тotal         Available           Сот and Grain Fertilizer 2-12-4         2.00         5.00         5.00         5.00         2.00         2.13         Available           Corn and Grain Fertilizer 5-8-7         2.00         5.00         5.00         5.00         8.08         8.50         7.00           Superphosphate         8.98         8.99         8.00         8.13         100         1010         1010         1010         1010         100         1010         1010         100         1010         100         100         100         100         1010         100         1010         1010         1010         1010         1010         10100         1011         100         1		NITRO	GEN	Р	HOSPHC	RIC AC	OI	P01	ASH
and Grain Fertilizer 2-12-4         2.00         5.00         5.01         Cuaranteed Cuaranteed           and Grain Fertilizer 2-12-4         2.00         5.01         13.01         12.01         12.01           to be Fertilizer 5-8-7         2.00         5.01         5.03         8.93         8.00         8.551         7.00           erphosphate         3.93         1.341         16.00         18.23         4.00           ta 8.94         8.93         8.93         8.03         8.251         7.00           ta 8.94         1.35         1.44          1.351         4.00           ta 8.94         8.93         8.03         8.23         7.00         3.75           ta 8.94         8.93         8.03         8.23         7.00         3.75           ta 8.94         1.35         1.44          1.05         0.75         0.96         3.75           maure          BALTINORE, MD.         1.35         1.44          1.05         0.75         0.96         3.75           ms. Gardens, Flowers, Shrubbery, Trees         4.00         3.92          1.2.83         12.00         12.64         4.00           rex. Go.				Tot	al	Avai	lable		
and Grain Fertilizer 2-12-4 2.00 2.13 2.00 12.51 4.00 4.00 erphosphate 2.00 5.00 5.00 5.00 8.00 12.51 4.00 erphosphate 2.00 12.51 1.00 18.23 7.00 14.8-7 16.00 18.23 7.00 14.8-7 16.00 18.23 7.00 14.8-7 1.05 0.75 0.96 3.70 14.8-7 1.05 0.75 0.96 3.70 14.8-7 1.05 0.75 0.96 3.70 14.8-7 1.05 0.75 0.96 3.70 14.8-7 1.05 0.75 0.96 3.70 14.8-7 1.05 0.75 0.96 3.70 14.8-7 1.05 0.75 0.96 3.70 14.8-7 1.05 0.75 0.96 3.70 14.8-7 1.05 0.75 0.96 3.70 14.8-7 1.05 0.75 0.96 3.70 14.8-7 1.05 0.75 0.96 3.70 14.8-7 1.05 0.75 0.96 3.70 1.05 0.96 3.70 1.05 0.75 0.96 3.70 1.05 0.75 0.96 3.70 1.05 1.00 1.01 12.5 1.0		Guaranteed	punog	Guaranteed	punoA	beetnarandeed	punoA	Guaranteed	рипод
perprosphate         and test	n and Grain Fertilizer 2-12-4	2.00 5.00	2.13 5.00		13.01 8.98	$12.00\\8.00$	12.51 8.50	$\frac{4.00}{7.00}$	4.19 7.10
4 -8-7        4.00       -4.00        8.62       8.00       8.28       7.00         t Manure        1.35       1.44        1.05       0.75       0.96       3.70         Swift & Co.       Baltimode, MD.       1.35       1.44        1.05       0.75       0.96       3.70         Swift & Co.       Baltimode, MD.       4.00       3.92        12.89       12.00       12.64       4.00         vns, Gardens, Flowers, Shrubbery, Trees       4.00       3.92        12.89       12.00       12.64       4.00         Tennessee Corporation       -       -       -       12.89       12.00       12.64       4.00         Tennessee Corporation       -       -       -       -       12.89       12.00       12.64       4.00         Tennessee Corporation       -       -       -       -       -       4.00         Tennessee Corporation       -       -       -       -       10.00       10.12       4.00	perphosphate	4.00	4.20		18.47 8.99	16.00 8.00	18.23 8.10	4.00	4.00
SWIFT & CO.         BALTHORE, MD.           BALTHORE, MD.         BALTHORE, MD.           rns, Gardens, Flowers, Shrubbery, Trees         4.00         3.92          12.89         12.00         12.64         4.00           TENNESSEE CORPORATION         5.00         5.07          11.22         10.00         10.12         4.00	1 4-8-7	$4.00 \\ 1.35$	$4.00 \\ 1.44$		$8.62 \\ 1.05$	8.00 0.75	$8.28 \\ 0.96$	$7.00 \\ 3.75$	$7.00 \\ 3.96$
<ul> <li>TENNESSEE CORPORATION</li> <li>TENNESSEE CORPORATION</li> <li>TENNESSEE CORPORATION</li> <li>TO CCKLAND, O.</li> <li>5.00</li> <li>5.07</li> <li>11.22</li> <li>10.00</li> <li>10.12</li> <li>4.00</li> </ul>	Swift & Co. Balthore, Md.								
Tennessee Corporation Lockland, O. 5.07 11.22 10.00 10.12 4.00	ns, Gardens, Flowers, Shrubbery, Trees	4.00	3.92		12.89	12.00	12.64	4.00	4.04
	Tennessee Corporation Lockland, O.								
		5.00	5.07		11.22	10.00	10.12	4.00	4.00

VIRGINIA CAROLINA CHEMICAL CORP. NEW YORK CITY 2 Aroostook Potato Grower 5-8-7	5.00 2.00 1.64	5.20 2.17 1.85	0.75	$\begin{array}{c} 9.19 \\ 13.29 \\ 1.92 \end{array}$	8.00 12.00	$   \begin{array}{c}     8.63 \\     12.52 \\     1.84   \end{array} $	7.00 4.00 1.50	F.4.01
WALKER-GORDON FARMS JULIUSTOWN, N. J. conure 1-1-1	1.00	2.15	1.00	0.88		0.77	1.00	н Н







