

Kentucky Agricultural Experiment Station

UNIVERSITY OF KENTUCKY

THOMAS P. COOPER, Director

ANALYSES OF COMMERCIAL FERTILIZERS

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This bulletin presents the results of the inspection of commercial fertilizers sold in Kentucky during the calendar year, 1938. The 652 brands registered for sale in the State are classified as follows:

Mixed fertilizers containing nitrogen, phosphoric acid and potash	422 brands
Mixed fertilizers containing phosphoric acid and potash	49 brands
Mixed fertilizers containing nitrogen and phosphoric acid	14 brands
Superphosphates	60 brands
Bones, tankage, etc.	42 brands
Nitrogen salts	40 brands
Potash salts	25 brands

A total of 1,031 samples were analyzed of which 715 were taken by inspectors, 230 were sent by manufacturers to represent fertilizers sold in the State and 86 were sent by county agents, farmers and others. The inspection samples may be classified as follows:

Samples containing nitrogen, phosphoric acid and potash	482
Samples containing phosphoric acid and potash	48
Samples containing nitrogen and phosphoric acid	23
Superphosphates	151
Nitrogen salts	10
Potash salts	1

A tag is required to be placed on each bag of fertilizer, before it is sold or offered for sale, on which the following information is printed:

Name of fertilizer
 Name and address of manufacturer
 Guaranteed minimum analysis
 Nitrogen, percent
 Available phosphoric acid, percent
 Potash, from muriate or sulfate, percent
 Estimated value per 100 lbs.

Total phosphoric acid, in place of available phosphoric acid, is guaranteed in bone and tankage. At the bottom of the tag must be placed a stamp on which is printed the net weight of fertilizer in the package and authorization of its sale by the Director, over his facsimile signature. The estimated value is for the purpose of comparing the values of fertilizers of different grades and should not be confused with the selling price. This cannot be accurately estimated because of the many factors, some of them variable, which are included in it.

The estimated value is determined by giving arbitrary values to the ingredients and calculating the corresponding values per 100 pounds or per ton. The values used are:

	Value per pound cents	Value per unit dollars
Nitrogen	17.5	3.5
Available phosphoric acid in mixed fertilizers and in superphosphate....	6.0	1.2
Total phosphoric acid in bone	5.0	1.0
Potash in all fertilizers	6.0	1.2

A unit is 20 pounds or 1 percent of a ton. If the unit value for each ingredient is multiplied by the percent of the ingredient in the fertilizer and all the results are added, the relative commercial value per ton, or index of relative value, is obtained. This valuation is used in comparing the value of samples analyzed with manufacturers' guarantees. The valuation depends upon the actual content of fertilizer ingredients and should not be confused with the crop producing value nor with the selling price of the fertilizer.

CALCULATION FOR A 4-12-4 FERTILIZER

Nitrogen	4 x 3.5 equals	14.0
Available phosphoric acid	12 x 1.2 equals	14.4
Potash	4 x 1.2 equals	4.8
Index of relative value		<u>33.2</u>

EXPLANATION OF THE TABLES

The analyses of all samples which are considered satisfactory are found in Table I. Analyses in Table II are considered unsatisfactory, either because the estimated value is too low or because some ingredient is too low. The figures in bold-face type

are those results which are considered too low to be acceptable. Sometimes the same brand will be found in both tables, in which case it is marked in each table with a (†) dagger. Ground bone was also analyzed mechanically by sifting on a sieve with holes 1 millimeter (.04 inch) in diameter. "Fine bone" is that which passed thru this sieve; "medium bone" is that which was retained on the sieve.

INFORMATION CONCERNING THE USE OF FERTILIZERS

Those interested in the use of fertilizers for different crops should apply to the College of Agriculture, the Experiment Station, or to their County Agents, and such literature as bears on the subject in which they are interested will be sent them. Bulletin No. 322, Report on Soil Experiment Fields, Bulletin No. 379, Soil Management and Fertilization for Tobacco, and Extension Circular No. 272, Soil Management for Kentucky are of special interest to all users of fertilizers.

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
	American Agricultural Chemical Co., Cincinnati, O.		
642	0-20-0	H. W. Smith, Horse Cave	
643		J. W. Schoolcraft, Somerset	
816		Harlan Fruit Co., Harlan	
1177		C. P. Clark and Son, Owensboro	
1263		J. W. Schoolcraft, Somerset	
1264		Crab Orchard Lumber Co., Crab Orchard	
1349		H. D. Jones, Glasgow	
1350		E. T. Walker, Glendale	
1351		Norris Hardware and Seed Co., Henderson	
1352		Denton Hardware Co., Madisonville	
		Guaranteed	
817	0-10-4	J. E. Bryant, Scottsville	
1353		J. E. Bryant, Scottsville	
		Guaranteed	
644	4-12-0	J. J. Hughes, Campton	3.70
645		Crab Orchard Lumber Co., Crab Orchard	3.86
1354		C. P. Clark and Son, Owensboro	3.97
		Guaranteed	
818	2-8-4	Cornett Bros., Berea	1.82
819		Woodson Lewis, Greensburg	2.07
820		O. B. Grayson, Auburn	1.92
821		C. B. Goering, Hawesville	1.90
1355		E. T. Walker, Glendale	1.87
1356		L. D. Flanagan, Russell Springs	2.00
		Guaranteed	
646	2-10-4	L. F. Wellman, Louisa	1.85
1178		J. R. Russell, Hartford	2.01
1265		Baughman Milling Co., Stanford	1.85
1357		C. V. King, Oakland	2.00
		Guaranteed	
822	2-12-6	Woodson Lewis, Greensburg	1.98
1179		S. V. Conrad, Cloverport	1.89
1180		Denton Hardware Co., Madisonville	1.86
1266		J. W. Schoolcraft, Somerset	1.99
1267		Baughman Milling Co., Stanford	1.95
1358		C. V. King, Oakland	1.98
1359		E. T. Walker, Glendale	2.06
1360		Cayse-Yost Co., Hopkinsville	1.78
		Guaranteed	
647	3-8-6	Big Sandy Fruit Co., Pikeville	3.05
823		Lebanon Carriage and Impl. Co., Lebanon	2.76
824		R. W. Scates, Crofton	2.78
1181		C. B. Carden, Hartford	3.03
		Guaranteed	
825	3-8-6 (Sulfate)	Wilkerson Feed Co., Franklin	2.80
826		Woodson Lewis, Greensburg	3.03
827		W. H. Brock and Co., Maysville	2.75
828		C. V. King, Oakland	2.98
1361		Beaver Dam Mfg. and Supply Co., Beaver Dam	2.99
		Guaranteed	

TABLE I.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
		20.75						24.9	642
		20.05						24.1	643
ro.....		21.15						25.4	816
		21.10						25.3	1177
ab Orchard		21.20						25.4	1263
		20.75						24.9	1264
		20.55						24.7	1349
		20.45						24.5	1350
		20.75						24.9	1351
sonville		20.60						24.7	1352
		20.00						24.0	
		10.10				4.37		17.4	817
		10.30				4.55		19.0	1353
		10.00				4.00		16.8	
ab Orchard	3.70	3.92	12.45					28.7	644
ro.....	3.86	4.12	12.95					30.0	645
	3.97	4.22	12.10					29.3	1354
		4.00	12.00					28.4	
	1.82	1.82	8.65			3.86		21.4	818
	2.07	2.07	8.80			3.99		22.6	819
	1.92	1.92	8.40			4.38		22.1	820
	1.90	1.90	8.25			3.95		21.3	821
ngs.....	1.87	2.08	9.15			4.36		23.5	1355
	2.00	2.00	8.35			4.35		22.2	1356
		2.00	8.00			4.00		21.4	
	1.85	2.05	11.15			3.80		25.1	646
	2.01	2.01	10.30			4.05		24.3	1178
ord.....	1.85	2.07	12.65			4.28		27.6	1265
	2.00	2.00	11.25			4.40		25.8	1357
		8.00	10.00			4.00		23.8	
	1.98	1.98	12.55			6.17		29.4	822
	1.89	2.11	12.00			6.23		29.3	1179
isonville	1.86	2.09	12.25			6.20		29.5	1180
	1.99	1.99	12.25			6.33		29.3	1266
nford.....	1.95	1.95	12.95			5.87		29.5	1267
	1.98	1.98	12.65			6.57		30.0	1358
	2.06	2.06	12.45			6.54		30.0	1359
e.....	1.78	1.99	12.30			6.30		29.3	1360
		2.00	12.00			6.00		28.6	
ille.....	3.05	3.05	8.55			6.27		28.5	647
Co., Lebanon	2.76	2.76	8.15			5.98		26.6	823
	2.78	2.78	8.55			6.09		27.3	824
	3.03	3.03	8.65			6.41		28.7	1181
		3.00	8.00			6.00		27.3	
lin.....	2.80	3.01	7.70			0.64	5.89	27.6	825
g.....	3.03	3.03	8.15				6.24	27.9	826
sville.....	2.75	2.98	7.85				6.38	27.5	827
	2.98	2.98	8.00				6.36	27.7	828
ly Co.,									
	2.99	2.99	8.65			0.64	5.47	28.2	1361
		3.00	8.00				6.00	27.3	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
American Agricultural Chemical Co., Cincinnati, O.—Cont.			
648	3-8-6 (Muriate and Sulfate).....	Baughman Milling Co., Stanford	2.91
829		Corbett Hardware Co., Elizabethtown.....	3.01
830		J. E. Bryant, Scottsville.....	2.86
		Guaranteed	
649	3-8-10	J. W. Hicks, Upton	2.77
		Guaranteed	
650	3-10-3	Howard Mercantile Co., Olive Hill.....	2.98
651		T. D. Flanagan, Russell Springs	2.85
831		Lebanon Carriage and Impl. Co., Lebanon.....	2.84
832		McChesney V. Thompson, Trenton.....	2.58
1268		J. W. Schoolcraft, Somerset	2.97
1269		Lebanon Carriage and Impl. Co., Lebanon.....	2.88
		Guaranteed	
652	3-10-6	J. W. Winn and Son, Horse Cave.....	3.17
653		J. W. Hicks, Upton.....	3.13
654		J. W. Schoolcraft, Somerset.....	3.10
833		Harlan Fruit Co., Harlan.....	2.95
		Guaranteed	
655	4-8-6	Paintsville Grocery Co., Paintsville.....	4.03
835		Harlan Fruit Co., Harlan	4.09
		Guaranteed	
582	4-10-6	Manufacturer	4.15
		Guaranteed	
656	4-10-6 (Sulfate)	J. J. Hughes, Campton	4.18
657		E. T. Walker, Glendale	4.25
836		J. H. McClure and Son, Springfield.....	3.78
837		Ross Feed Co., Murray	3.85
838		Bedford and Tuttle, Winchester.....	3.92
839		Corbett Hardware Co., Elizabethtown.....	3.84
		Guaranteed	
1182	4-16-4	Beaver Dam Manufacturing and Supply Co., Beaver Dam	4.05
1362		Beaver Dam Manufacturing and Supply Co., Beaver Dam	4.00
		Guaranteed	
658	5-10-5	L. F. Wellman, Louisa	5.28
840		Geo. W. Hill and Co., Covington.....	5.21
841		E. C. Miller, Buechel	5.00
1183		S. V. Conrad, Cloverport	4.75
		Guaranteed	
842	4-10-4	E. C. Miller, Buechel	4.63
843		J. S. Snodgrass, New Castle.....	3.83
1184		C. P. Clark and Son, Owensboro.....	4.03
1363		C. P. Clark and Son, Owensboro.....	3.98
		Guaranteed	
1185	Ground Bone (Steamed)	Norris Hardware and Seed Co., Henderson	
1364		E. T. Walker, Glendale	
		Guaranteed	

TABLE I.

	Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
ord	2.91	2.91	8.15				3.60	2.46	27.2	648
bethtown	3.01	3.01	8.25				2.32	3.88	27.9	829
	2.86	2.86	8.40				3.44	2.62	27.4	830
		3.00	8.00				3.00	3.00	27.3	
	2.77	2.97	8.75				9.61		32.4	649
		3.00	8.00				10.00		32.1	
e Hill	2.98	2.98	10.05				3.47		26.7	650
ngs	2.85	2.85	10.45				3.28		26.5	651
o., Lebanon	2.84	2.84	10.25				3.35		26.3	831
renton	2.58	2.79	10.80				3.36		26.8	832
	2.97	2.97	10.75				3.38		27.4	1268
o., Lebanon	2.88	2.88	11.20				3.22		27.4	1269
		3.00	10.00				3.00		26.1	
Cave	3.17	3.17	10.25				6.31		31.0	652
	3.13	3.13	10.10				6.29		30.6	653
	3.10	3.10	10.05				6.27		30.4	654
	2.95	3.16	10.70				6.41		31.6	833
		3.00	10.00				6.00		29.2	
intsville	4.03	4.03	8.15				6.24		31.4	655
	4.09	4.09	8.35				6.23		31.8	835
		4.00	8.00				6.00		30.8	
	4.15	4.15	10.60				6.38		34.9	582
		4.00	10.00				6.00		33.2	
	4.18	4.18	10.30				0.64	5.60	34.5	656
	4.25	4.25	10.20					5.53	33.8	657
ingfield	3.78	4.00	10.30					6.07	33.6	836
	3.85	4.07	10.35					6.22	34.1	837
ster	3.92	3.92	10.75				1.84	4.11	33.8	838
abethtown	3.84	4.09	10.30					6.49	34.5	839
		4.00	10.00					6.00	33.2	
and Supply	4.05	4.28	18.65				4.64		42.9	1182
and Supply	4.00	4.00	16.30				4.39		38.8	1362
		4.00	16.00				4.00		38.0	
	5.28	5.28	10.05				5.60		37.3	658
gton	5.21	5.21	10.50				5.55		37.5	840
	5.00	5.00	10.55				5.28		36.5	841
	4.75	4.75	10.90				4.85		35.5	1183
		5.00	10.00				5.00		35.5	
	4.63	4.63	10.25				5.03		34.6	842
	3.83	3.83	10.15				4.09		30.5	843
sboro	4.03	4.03	10.20				4.21		31.6	1184
sboro	3.98	3.98	10.70				4.79		32.5	1363
		4.00	10.00				4.00		30.8	
Co.		2.06		28.15	55	45			35.4	1185
		2.26		27.40	76	24			35.3	1364
		2.00		27.00					34.0	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water, Nitrogen
American Agricultural Chemical Co., Cincinnati, O.—Cont.			
593	AA Raw Bone Meal	Manufacturer	
		Guaranteed	
594	Sulfate of Ammonia	Manufacturer	
		Guaranteed	
595	Sulfate of Potash	Manufacturer	
		Guaranteed	
659	6-8-6	L. F. Wellman, Louisa	5.95
660		E. T. Walker, Glendale	6.04
		Guaranteed	
640	10-6-4	Manufacturer	9.55
		Guaranteed	
American Cyanamid Co., New York, N. Y.			
1	21% 'Aero' Cyanamid Granular.....	Manufacturer	20.59
		Guaranteed	
2	Granular 'Aero' Superphosphate.....	Manufacturer	
		Guaranteed	
3	'Ammo-Phos' 16-20-0	Manufacturer	15.77
		Guaranteed	
4	'Ammo-Phos' 11-48-0	Manufacturer	10.38
		Guaranteed	
The Armour Fertilizer Works, Cincinnati, Jeffersonville, Nashville			
844	Armour's 4-8-4 (Sulfate)	Flemingsburg Mills, Flemingsburg	3.05
845		Hulette Hardware Co., Williamstown	2.33
846		J. C. Everett and Co., Maysville	2.33
1187		G. H. Harris, Cloverport	3.20
		Guaranteed	
616	Armour's 3-8-6 (Sulfate)	C. S. Brent Seed Co., Lexington	2.18
661		J. H. Peterson, Hiseville	2.24
847		Taylor County Supply Co., Campbellsville	2.19
848		Carlisle Mill and Supply Co., Carlisle	2.71
849		J. C. Everett and Co., Maysville	2.36
850		Walter McGlasson, Horse Cave	2.23
		Guaranteed	
662	Armour's 4-12-8 (Sulfate)	Durham Implement Co., Stanford	3.11
663		H. D. Jones, Glasgow	3.08
664		J. H. Peterson, Hiseville	3.09
851		Henderson and Hardy Co., Shepherdsville	3.08
852		W. H. Brock and Co., Winchester	3.57
853		Carlisle Mill and Supply Co., Carlisle	3.24
		Guaranteed	
665	Armour's 2-10-4	Burnside Milling Co., Burnside	1.59
666		J. W. Schoolcraft, Somerset	1.65
854		Ed. Allen, Smiths Grove	1.46
855		J. C. Everett and Co., Maysville	1.72
856		C. E. Martin and Co., Greenville	1.70
857		York and Massey, Scottsville	1.59
858		Taylor County Supply Co., Campbellsville	1.71

TABLE I.

	Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
		3.87		26.40	96	4			40.0	593
		3.70		22.00					35.0	
		20.92							73.2	594
		20.50							71.8	
								49.76	59.7	595
								48.00	57.6	
5.95	5.95	8.45					6.14		38.3	659
6.04	6.04	8.05					6.42		38.5	660
	6.00	8.00					6.00		37.8	
9.55	9.92	6.60					4.41		47.9	640
	10.00	6.00					4.00		47.0	
20.59	21.36								74.8	1
	21.00								73.5	
		32.60							39.1	2
		32.00							38.4	
15.77	16.00	22.30							82.8	3
	16.00	20.00							80.0	
10.38	10.96	48.45							96.5	4
	11.00	48.00							96.1	
Nashville										
ingsburg	3.05	4.05	8.30				0.64	3.65	29.3	844
Williamstown	2.33	3.88	8.25				0.72	3.66	28.7	845
sville	2.33	3.85	8.35				0.72	3.74	28.9	846
	3.20	4.21	8.75				0.72	3.53	30.3	1187
		4.00	8.00					4.00	28.4	
ngton	2.18	2.99	8.25				0.64	5.57	27.8	616
	2.24	3.07	8.15				0.64	5.75	28.2	661
Campbellsville	2.19	3.03	8.15				0.96	5.31	27.9	847
o., Carlisle	2.71	3.00	8.05					6.32	27.7	848
sville	2.36	3.08	8.85					6.19	28.8	849
Cave	2.23	3.14	8.20					6.58	28.7	850
		3.00	8.00					6.00	27.3	
tanford	3.11	3.98	12.15				0.72	7.45	38.3	662
	3.08	3.97	12.00				0.80	7.38	38.1	663
	3.09	3.98	12.30					8.18	38.5	664
	3.08	4.00	12.10				0.64	7.80	38.7	851
Chester	3.57	4.21	12.50					8.17	39.5	852
Co., Carlisle	3.24	4.19	12.55				0.88	7.48	39.8	853
		4.00	12.00					8.00	38.0	
inside	1.59	2.18	10.00				4.37		24.9	665
et	1.65	1.99	10.00				4.41		24.3	666
	1.46	1.86	10.60				4.17		24.2	854
ysville	1.72	2.05	10.75				4.33		25.3	855
eenerville	1.70	2.00	10.20				4.13		24.2	856
ille	1.59	2.00	10.65				4.28		24.9	857
Campbellsville	1.71	2.09	10.15				4.33		24.7	858

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
The Armour Fertilizer Works, Cincinnati, Jeffersonville, Nashville—Cont.			
859	Armour's 2-10-4 (Cont.)	Hatter Hardware Co., Franklin	1.63
860		N. E. West, Gamaliel	1.80
1270		Taylor County Supply Co., Campbellsville	1.65
1365		C. E. Martin and Co., Greenville	1.95
1366		Beaver Dam Manufacturing and Supply Co., Beaver Dam	1.65
		Guaranteed	
667	Armour's 20% Superphosphate	Louisa Supply Co., Louisa	
668		Barren County Hardware Co., Glasgow	
861		Wilson Hardware Co., Auburn	
862		Giltner Seed and Feed Co., Eminence	
863		Burkesville Grain and Feed Co., Burkesville	
1271		J. L. Tupman, Columbia	
1272		J. C. Everett and Co., Maysville	
1273		Robinson and Turley, Richmond	
1367		Wilson, Miles and Co., Russellville	
1368		Barren County Hardware Co., Glasgow	
1369		J. H. Peterson, Hiseville	
1370		York and Massey, Scottsville	
1371		Henderson and Hardy Co., Shepherdsville	
		Guaranteed	
669	Armour's 0-10-4 Fertilizer	Jasper Produce Co., Science Hill	
864		S. D. Haslin and Co., Gamaliel	
865		Sam Hayes, Clarkson	
1274		J. W. Schoolcraft, Somerset	
		Guaranteed	
866	Armour's 2-8-4 Fertilizer	Middlesboro Feed Co., Middlesboro	1.6
867		Taylor County Supply Co., Campbellsville	1.6
868		Sam Terry, Big Clifty	1.7
869		G. M. Haycraft and Son, Leitchfield	1.6
1275		J. L. Tupman, Columbia	1.5
1276		J. W. Schoolcraft, Somerset	1.7
1277		Woodson Lewis, Greensburg	1.9
		Guaranteed	
870	Armour's 2-12-6 Fertilizer	U. B. Sellers, Louisville	1.6
871		Jellico Grocery Co., Barbourville	1.7
872		Hadis Harvey, Breeding	1.7
874		Giltner Seed and Feed Co., Eminence	1.6
1278		J. C. Everett and Co., Maysville	1.9
1279		J. W. Schoolcraft, Somerset	1.8
		Guaranteed	
670	Armour's 3-8-6 Fertilizer	H. D. Jones, Glasgow	2.8
671		Lester L. Lynd, Ashland	2.7
1280		Taylor County Supply Co., Campbellsville	2.7
		Guaranteed	

TABLE I.

TABLE I.

	Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
ville—Cont										
klin	1.63	2.01	10.15				4.37		24.5	859
	1.80	2.29	10.30				4.01		25.2	860
	1.65	2.08	10.20				4.85		25.3	1270
ville	1.95	2.32	10.50				4.60		26.2	1365
g and										
	1.65	2.02	10.80				4.39		25.3	1366
		2.00	10.00				4.00		23.8	
			20.00						24.0	667
Co., Glasgow			19.70						23.6	668
urn			20.25						24.3	861
, Eminence			20.05						24.1	862
d Co.,										
			21.50						25.8	863
			20.55						24.7	1271
ysville			20.15						24.2	1272
hmond			20.00						24.0	1273
ssellville			20.15						24.2	1367
Co., Glasgow			20.75						24.9	1368
			20.20						24.2	1369
ille			20.50						24.6	1370
			20.80						25.0	1371
			20.00						24.0	
ce Hill			12.35				4.36		20.1	669
haniel			10.30				4.35		17.6	864
			10.15				4.23		17.3	865
et			11.90				5.78		21.2	1274
			10.00				4.00		16.8	
ddlesboro	1.69	2.09	8.50				3.94		22.3	866
	1.66	2.06	8.60				4.04		22.4	867
	1.71	2.13	8.90				4.06		23.0	868
Leitchfield	1.66	2.07	9.85				4.08		24.0	869
	1.59	2.01	8.85				4.07		22.5	1275
set	1.73	2.03	8.00				3.92		21.4	1276
urg	1.99	1.99	9.10				3.99		22.7	1277
		2.00	8.00				4.00		21.4	
	1.65	2.09	12.40				6.25		29.7	870
ourville	1.72	2.01	12.65				6.65		30.2	871
	1.74	2.13	12.20				6.11		29.4	872
o., Eminence	1.67	2.10	12.55				6.25		29.9	874
aysville	1.96	2.27	12.25				6.07		29.9	1278
set	1.81	2.11	12.00				6.19		29.2	1279
		2.00	12.00				6.00		28.6	
	2.80	3.23	8.75				5.78		28.8	670
	2.79	3.11	8.05				6.48		28.3	671
o.,	2.79	3.26	8.60				6.21		29.2	1280
		3.00	8.00				6.00		27.3	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water soluble Nitrogen
	The Armour Fertilizer Works, Cincinnati, Jeffersonville, Nashville—Cont.		
875	Armour's 3-10-3 Fertilizer	Giltner Seed and Feed Co., Eminence	2.88
876		Sam Terry, Big Clifty	2.64
877		U. B. Sellers, Louisville	2.67
		Guaranteed	
672	Armour's 4-8-4 Fertilizer	Bowman-Watts Co., Lothair	3.70
673		Jasper Produce Co., Somerset	3.67
789		F. W. Conard, Falmouth	3.70
		Guaranteed	
878	Armour's 4-12-8 Fertilizer	McLean County Hardware Co., Calhoun	3.40
1188		Atherton-Kidd Co., Livermore	3.38
		Guaranteed	
674	Armour's 4-16-4 Fertilizer	M. C. Creekmore, Pine Knot	3.79
879		Jellico Grocery Co., Barbourville	3.46
880		E. W. Simpson, Owenton	3.58
886		Ed. Allen, Smiths Grove	3.82
1372		T. J. Turley Co., Owensboro	3.61
		Guaranteed	
881	Armour's 5-10-5 Fertilizer	Home Fruit Co., Harlan	4.72
		Guaranteed	
882	Big Crop 4-12-4 Fertilizer	Jellico Grocery Co., Barbourville	3.59
		Guaranteed	
883	Big Crop 6-8-6 Fertilizer	Robinson and Turley, Richmond	5.46
		Guaranteed	
884	Nitrate of Soda	C. E. Martin and Co., Greenville	
1189		Atherton-Kidd Co., Livermore	
1190		Henderson and Hardy, Shepherdsville	
		Guaranteed	
885	Big Crop 44% Superphosphate	C. E. Martin and Co., Greenville	
		Guaranteed	
873	Armour's Half Bone Meal and Half 2-12-6	Taylor County Supply Co., Campbellsville	0.96
		Guaranteed	
	Buhner Fertilizer Co., Seymour, Ind.		
887	Buhner's 5-10-5	Farmers Grain and Produce Co., Springfield	4.83
		Guaranteed	
675	Buhner's 4-10-6	Harrison and Beck, Jamestown	3.33
888		Joe Fister, Lexington	3.45
		Guaranteed	
676	Buhner's 3-10-3	Harrison and Beck, Jamestown	2.75
		Guaranteed	
677	†Buhner's 3-8-6	Harrison and Beck, Jamestown	2.63
		Guaranteed	
1282	Buhner's 2-8-4	Harrison and Beck, Jamestown	1.75
		Guaranteed	
678	Buhner's 0-10-4	Harrison and Beck, Jamestown	
		Guaranteed	
679	Buhner's 20% Superphosphate	Harrison and Beck, Jamestown	
1283		Harrison and Beck, Jamestown	
		Guaranteed	
890	Buhner's 3-8-6 (Sulfate)	Fayette Seed Co., Lexington	2.63
		Guaranteed	

TABLE I.

TABLE I.

	Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
ville—Cont.										
Eminence	2.88	3.23	10.95				3.29		28.4	875
	2.64	3.07	10.25				3.31		27.0	876
	2.67	3.06	10.05				3.24		26.7	877
		3.00	10.00				3.00		26.1	
	3.70	4.01	8.60				4.02		29.2	672
rsset	3.67	4.00	8.40				3.98		28.9	673
	3.70	4.03	8.65				4.63		30.1	789
		4.00	8.00				4.00		28.4	
Co., Calhoun	3.40	3.69	12.40				7.85		37.2	878
ore	3.38	3.78	12.15				8.28		37.8	1188
		4.00	12.00				8.00		38.0	
ot	3.79	4.10	16.65				4.32		39.5	674
urville	3.46	3.92	16.90				4.37		39.2	879
	3.58	3.89	16.25				4.64		38.7	880
	3.82	4.21	16.60				4.66		40.3	886
ro	3.61	4.03	16.40				4.69		39.4	1372
		4.00	16.00				4.00		38.0	
	4.72	5.05	11.15				4.95		37.0	881
		5.00	10.00				5.00		35.5	
urville	3.59	4.00	12.95				4.11		34.5	882
		4.00	12.00				4.00		33.2	
mond	5.46	5.73	8.30				6.81		38.2	883
		6.00	8.00				6.00		37.8	
ville		16.08							56.3	884
ore		16.16							56.6	1189
epherdsville		16.12							56.4	1190
		16.00							56.0	
ville			44.05						52.9	885
			44.00						52.8	
Campbellsville	0.96	2.16	14.85				3.15		29.2	873
		2.00	12.00				3.00		25.0	
e Co.,							5.15		36.8	887
	4.83	5.21	10.30							
		5.00	10.00				5.00		35.5	
own	3.31	3.81	9.95				6.48		33.1	675
	3.43	3.67	10.20				8.11		34.8	888
		4.00	10.00				6.00		33.2	
own	2.79	3.09	9.90				3.63		27.1	676
		3.00	10.00				3.00		26.1	
own	2.63	2.90	8.00				6.19		27.2	677
		3.00	8.00				6.00		27.3	
own	1.72	1.93	9.10				4.60		23.2	1282
		2.00	8.00				4.00		21.4	
own			10.30				4.32		17.5	678
			10.00				4.00		16.8	
own			20.55						24.7	679
own			21.30						25.6	1283
			20.00						24.0	
n	2.61	2.93	8.25				2.72	4.21	28.5	890
		3.00	8.00					6.00	27.3	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
891	Buhner Fertilizer Co., Buhner's 4-12-0	Seymour, Ind.—Cont. Joe Fister, Lexington	3.54
680	Chilean Nitrate Sales Corp., Champion Brand Chilean Nitrate of Soda	New York, N. Y. H. D. Jones, Glasgow	
681	Consolidated Chemical Co., Camel Brand 2-8-4	Louisville, Ky. C. M. Langdon, Science Hill	2.29
1193		Star Roller Mills, Cloverport	2.04
682	Camel Brand 2-10-4	Guaranteed	1.97
1284		T. T. Coe, Jamestown	1.75
683	†Camel Brand 3-8-6	Guaranteed	2.83
1195	Camel Brand 3-8-6 (Sulfate)	T. T. Coe, Jamestown	2.88
111	Camel Brand 3-8-10	Guaranteed	3.87
112	Camel Brand 3-8-10 (Sulfate)	Star Roller Mills, Cloverport	3.90
113	Camel Brand 3-10-3	Guaranteed	4.09
114	Camel Brand 3-12-4	Manufacturer	3.91
1196	Camel Brand 4-8-4	Guaranteed	3.69
116	Camel Brand 4-8-4 (Sulfate)	Yopp Seed Co., Paducah	5.21
118	Camel Brand 4-8-6	Guaranteed	4.88
889	Camel Brand 4-10-4	Manufacturer	4.03
1197	Camel Brand 4-12-8	Guaranteed	3.77
121	Camel Brand 4-12-8 (Sulfate)	DeBord Produce Co., London	5.35
122	Camel Brand 4-12-0	Guaranteed	4.00
123	Camel Brand 5-10-5	Yopp Seed Co., Paducah	6.08
124	Camel Brand 6-8-6	Guaranteed	7.62
1198	Camel Brand 6-8-6 (Sulfate)	Manufacturer	5.01
126	Camel Brand 0-10-10 (With Lime Filler)	Star Roller Mills, Cloverport	
684	Camel Brand 0-10-4 (With Lime Filler)	Guaranteed	
		T. T. Coe, Jamestown	
		Guaranteed	

TABLE I.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
3.54	3.93 4.00	11.85 12.00						28.0 28.4	891
	16.16 16.00							56.0 56.0	680
2.29	2.61	8.25				4.68		24.7	681
2.04	2.37 2.00	8.50 8.00				4.83 4.00		24.3 21.4	1193
1.97	2.35	10.95				4.38		26.6	682
1.75	2.20 2.00	10.45 10.00				5.50 4.00		26.8 21.4	1284
2.83	3.22 3.00	8.50 8.00				6.18 6.00		28.9 27.3	683
2.88	3.32 3.00	8.20 8.00				1.20	5.07 6.00	29.0 27.3	1195
3.87	3.87 3.00	9.35 8.00				10.70 10.00		37.6 32.1	111
3.90	3.90 3.00	9.00 8.00				0.96	10.27 10.00	37.9 32.1	112
4.09	4.09 3.00	11.40 10.00				4.14 3.00		33.0 26.1	113
3.91	3.91 3.00	13.25 12.00				4.75 4.00		35.3 29.7	114
3.69	4.07 4.00	8.40 8.00				4.33 4.00		29.5 28.4	1196
5.21	5.21 4.00	9.60 8.00					4.72 4.00	35.4 28.4	116
4.88	4.88 4.00	9.40 8.00				7.16 6.00		37.0 30.8	118
4.03	4.52 4.00	10.30 10.00				4.42 4.00		33.5 30.8	889
3.77	4.13 4.00	12.05 12.00				8.22 8.00		38.8 38.0	1197
5.35	5.35 4.00	13.05 12.00					8.76 8.00	44.9 38.0	121
4.00	4.64	14.25						35.3	122
6.08	6.08 5.00	11.30 10.00				6.03 5.00		28.4 42.1 35.5	123
7.62	7.62 6.00	8.85 8.00				6.58 6.00		45.2 37.8	124
5.01	5.48 6.00	8.80 8.00				1.12	4.94 6.00	37.0 37.8	1198
		10.60				11.41		26.4	126
		10.00				10.00		24.0	
		10.60				4.68		17.7	684
		10.00				4.00		16.8	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
		Louisville, Ky.—Cont.	
128	Consolidated Chemical Co., Camel Brand 0-44-0	Manufacturer	
		Guaranteed	
1199	†Camel Brand 0-20-0 (With Lime Filler)	Yopp Seed Co., Paducah	
1285		T. T. Coe, Jamestown	
		Guaranteed	
130	Camel Brand 0-20-0 with 200 lbs. Sterilized Tobacco Stems	Manufacturer	
		Guaranteed	
131	Camel Brand Raw Bone Meal	Manufacturer	
		Guaranteed	
132	Camel Brand Steamed Bone Meal 1.60-27-0	Manufacturer	
		Guaranteed	
133	Camel Brand Steamed Bone Meal 2.47-24-0	Manufacturer	
		Guaranteed	
		Hopkinsville, Ky.	
892	Cumberland Chemical Co., Cumberland 9-18-18	Young Hardware Co., Hopkinsville	8.20
		Guaranteed	
481	Cumberland 6-8-6	Manufacturer	6.51
		Guaranteed	
482	Cumberland 5-10-5	Manufacturer	5.58
		Guaranteed	
893	Cumberland 4-16-4	Wilson and Son, Golden Pond	3.91
894		Turner and Stewart Gracey	3.97
		Guaranteed	
484	Cumberland 4-12-8	Manufacturer	4.31
		Guaranteed	
895	Cumberland 4-12-4	C. W. Buckner, Pembroke	4.28
		Guaranteed	
486	Cumberland 4-12-0	Manufacturer	4.32
		Guaranteed	
896	Cumberland 4-10-6	N. P. Hutson, Murray	3.38
897		Cayce-Yost Co., Hopkinsville	3.39
		Guaranteed	
898	Cumberland 4-10-4	Mose Dunning, Crofton	3.52
899		Planters Hardware Co., Hopkinsville	3.92
		Guaranteed	
489	Cumberland 4-8-4	Manufacturer	4.15
		Guaranteed	
490	Cumberland 3-10-3	Manufacturer	3.11
		Guaranteed	
491	Cumberland 3-8-10	Manufacturer	2.61
		Guaranteed	
900	Cumberland 3-8-6	W. L. Kimbrough and Son, Guthrie	3.03
901		C. W. Buckner, Pembroke	3.00
902		W. G. Putman, Nortonville	2.73
		Guaranteed	

TABLE I.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
		45.35 44.00						54.4 52.8	128
		20.25 20.75 20.00						24.3 24.9 24.0	1199 1285
		22.45 20.00						26.9 24.0	130
	3.88 3.70		23.70 22.00	39	61			37.3 35.0	131
	1.79 1.60		28.30 27.00	69	31			34.6 32.6	132
	1.93 2.47		28.3 24.0	66	34			35.1 32.7	133
8.20	8.58 9.00	18.20 18.00				18.46 18.00		74.0 74.7	892
6.51	6.88 6.00	8.85 8.00				6.61 6.00		42.6 37.8	481
5.58	5.92 5.00	10.15 10.00				6.16 5.00		40.3 35.5	482
3.91 3.97	4.19 4.21 4.00	16.85 17.10 16.00				4.12 4.30 4.00		39.8 40.4 38.0	893 894
4.31	4.55 4.00	12.50 12.00				9.08 8.00		41.8 38.0	484
4.28	4.28 4.00	11.95 12.00				5.26 4.00		35.6 33.2	895
4.32	4.73 4.00	12.45 12.00						31.5 28.4	486
3.38 3.39	4.16 4.16 4.00	11.20 10.40 10.00				6.67 6.53 6.00		36.0 34.9 33.2	896 897
3.52 3.92	3.87 4.27 4.00	11.30 10.60 10.00				4.16 4.34 4.00		32.1 32.9 30.8	898 899
4.15	4.59 4.00	8.40 8.00				5.39 4.00		32.6 28.4	489
3.11	3.62 3.00	10.45 10.00				4.60 3.00		30.7 26.1	490
2.61	2.99 3.00	8.65 8.00				10.70 10.00		33.7 32.1	491
3.03 3.00 2.73	3.03 3.00 2.99 3.00	8.10 8.20 8.75 8.00				6.38 6.36 6.25 6.00		28.0 28.0 28.5 27.3	900 901 902

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
493	Cumberland Chemical Co., Cumberland 2-12-6	Hopkinsville, Ky.—Cont. Manufacturer Guaranteed	2.02 1.66
903	Cumberland 2-10-4	Ratliff Hardware Co., Princeton	1.66
1200		Phoenix Milling Co., Providence Guaranteed	1.67
904	Cumberland 2-8-4	Mose Dunning, Crofton	1.65
905		J. Ruby, Central City Guaranteed	
496	Cumberland 0-12-12	Manufacturer Guaranteed	
497	Cumberland 0-10-10	Manufacturer Guaranteed	
1201	Cumberland 0-14-7	Agnes Davis, Russellville Guaranteed	
906	Cumberland 0-10-4	Mose Dunning, Crofton	
1373		Mose Dunning, Crofton	
1374		Planters Hardware Co., Hopkinsville Guaranteed	
500	Cumberland 44% Superphosphate	Manufacturer Guaranteed	
907	Cumberland 20% Superphosphate	C. W. Buckner, Pembroke	
1202		Fox Hardware Co., Madisonville	
1375		W. G. Putman, Nortonville	
1376		Planters Hardware Co., Hopkinsville	
1377		Mose Dunning, Crofton	
1378		Fox Hardware Co., Madisonville	
1379		Phoenix Milling Co., Providence	
1380		Planters Hardware Co., Hopkinsville Guaranteed	
908	Cumberland Limestone Phosphate	Salzman's Grocery, Greenville	
909		Green River Milling Co., Carrollton Guaranteed	
910	Cumberland Raw Bone Meal	C. W. Buckner, Pembroke Guaranteed	
1142	Cumberland Steamed Bone Meal	John J. Sweatt, Olmstead Guaranteed	
911	Cumberland Nitrate of Soda	Trigg County Trading Co., Cadiz Guaranteed	
506	Cumberland Sulfate of Ammonia	Manufacturer Guaranteed	
507	Cumberland 50% Muriate of Potash	Manufacturer Guaranteed	
508	Cumberland 48% Sulfate of Potash	Manufacturer Guaranteed	3.26
509	Cumberland 3-8-6 (Sulfate)	Manufacturer Guaranteed	
1203	Darling and Co., Darling's 4-16-4	Chicago, Ill. Yopp Seed Co., Paducah Guaranteed	4.23

TABLE I.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
2.02	2.40	12.25				7.07		31.6	493
	2.00	12.00				6.00		28.6	
1.66	2.06	10.45				4.24		24.8	903
1.66	2.07	10.60				4.21		25.0	1200
	2.00	10.00				4.00		23.8	
1.67	2.07	8.35				4.14		22.2	904
1.65	2.06	8.30				4.17		22.2	905
	2.00	8.00				4.00		21.4	
		12.65				12.31		30.0	496
		12.00				12.00		28.8	
		10.20				10.86		25.2	497
		10.00				10.00		24.0	
		15.05				6.84		26.3	1201
		14.00				7.00		25.2	
		10.50				4.40		17.9	906
		10.50				5.07		18.7	1373
		10.55				4.83		18.5	1374
		10.00				4.00		16.8	
		45.10						54.1	500
		44.00						52.8	
		20.85						25.0	907
		20.45						25.5	1202
		21.05						25.3	1375
		20.75						24.9	1376
		21.05						25.3	1377
		21.25						25.5	1378
		20.65						24.8	1379
		20.50						24.6	1380
		20.00						24.0	
		20.00						24.0	908
		21.90						26.3	909
		20.00						24.0	
	4.06		22.35	44	56			36.6	910
	3.50		21.50					33.8	
	1.85		27.00	61	39			33.5	1142
	2.00		27.00					34.0	
	16.04							56.1	911
	16.00							56.0	
	20.80							73.2	506
	20.50							71.8	
						54.72		65.7	507
						50.00		60.0	
							50.40	60.5	508
							48.00	57.6	
3.26	3.65	8.80					6.23	30.8	509
	3.00	8.00					6.00	27.3	
4.23	4.23	16.80				4.71		40.6	1203
	4.00	16.00				4.00		38.0	

TABLE I

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
		Chicago, Ill.—Cont.	
165	Darling and Co., Darling's 4-8-4	Manufacturer	4.31
		Guaranteed	
166	Darling's 4-8-6	Manufacturer	4.39
		Guaranteed	
1204	Darling's 3-10-3	Philpot Mills, Philpot	2.67
		Guaranteed	
168	Darling's 3-8-6	Manufacturer	3.32
		Guaranteed	
169	Darling's 2-8-4	Manufacturer	2.09
		Guaranteed	
170	Darling's 0-10-10	Manufacturer	
		Guaranteed	
912	Darling's 20% Superphosphate	W. B. Taylor, Tilford	
		Guaranteed	
		Nashville, Tenn.	
686	Davison Chemical Corp., The Empire Guano Div., Red Banner 2-8-4	Harvey and Breeding, Glasgow	1.80
913		M. L. Orange, Princeton	1.58
		Guaranteed	
914	3-8-6	M. L. Orange, Princeton	2.66
		Guaranteed	
34	3-8-6 (Sulfate)	Manufacturer	3.16
		Guaranteed	
35	Red Banner 3-10-3	Manufacturer	2.87
		Guaranteed	
36	Red Banner 4-8-4	Manufacturer	3.63
		Guaranteed	
37	Red Banner 4-8-6	Manufacturer	4.73
		Guaranteed	
38	Red Banner 4-10-4	Manufacturer	3.95
		Guaranteed	
39	Red Banner 4-12-8	Manufacturer	1.79
		Guaranteed	
40	Red Banner 5-10-5	Manufacturer	5.36
		Guaranteed	
41	Red Banner 0-10-10	Manufacturer	
		Guaranteed	
42	Red Banner 0-12-12	Manufacturer	
		Guaranteed	
43	20% Superphosphate	Manufacturer	
		Guaranteed	
44	0-10-4 Potash Mixture	Manufacturer	
		Guaranteed	
45	Raw Bone Meal	Manufacturer	
		Guaranteed	
46	Steam Bone Meal	Manufacturer	
		Guaranteed	
47	Muriate Potash	Manufacturer	
		Guaranteed	

TABLE I.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
4.31	4.31	8.90				4.31		30.9	165
	4.00	8.00				4.00		28.4	
4.39	4.39	8.75				6.47		33.6	166
	4.00	8.00				6.00		30.8	
2.67	2.94	11.00				3.49		27.7	1204
	3.00	10.00				3.00		26.1	
3.32	3.32	8.50				6.53		30.0	168
	3.00	8.00				6.00		27.3	
2.09	2.29	8.85				4.51		24.1	169
	2.00	8.00				4.00		21.4	
		10.50				10.30		25.0	170
		10.00				10.00		24.0	
		20.40						24.5	912
		20.00						24.0	
1.80	2.12	12.05				3.88		26.5	686
1.58	1.86	8.00				5.18		22.3	913
	2.00	8.00				4.00		21.4	
2.66	2.93	9.55				5.30		28.1	914
	3.00	8.00				6.00		27.3	
3.16	3.49	8.75					7.53	31.8	34
	3.00	8.00					6.00	27.3	
2.87	3.33	10.95				3.84		29.4	35
	3.00	10.00				3.00		26.1	
3.63	4.08	8.00				4.75		29.6	36
	4.00	8.00				4.00		28.4	
4.73	5.16	8.85				6.41		36.4	37
	4.00	8.00				6.00		30.8	
3.95	4.42	10.80				5.07		34.5	38
	4.00	10.00				4.00		30.8	
1.79	4.89	12.05				9.62		43.1	39
	4.00	12.00				8.00		38.0	
5.36	5.74	10.45				6.50		40.4	40
	5.00	10.00				5.00		35.5	
		10.70				12.37		27.7	41
		10.00				10.00		24.0	
		12.80				14.38		32.6	42
		12.00				12.00		28.8	
		21.15						25.4	43
		20.00						24.0	
		10.15				5.21		18.4	44
		10.00				4.00		16.8	
	3.94		23.45	48	52			37.2	45
	3.70		20.00					33.0	
	2.09		29.15	74	26			36.5	46
	2.00		27.00					34.0	
						51.20		61.4	47
						50.00		60.0	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
	Davison Chemical Corp., The Empire Guano Div.,	Nashville, Tenn.—Cont.	
48	Sulfate Ammonia	Manufacturer	
		Guaranteed	
49	Nitrate Soda	Manufacturer	
		Guaranteed	
50	6-8-6	Manufacturer	5.10
		Guaranteed	
51	Red Banner 6-8-4	Manufacturer	5.93
		Guaranteed	
52	Red Banner 5-15-5	Manufacturer	6.16
		Guaranteed	
	The Davison Chemical Corp., Hopkins Fertilizer Div.,	New Albany, Ind.	
687	Hopkins Old Time 6-8-6	Lancaster Milling Co., Lancaster	5.35
688		Harvey Ward, Munfordville	5.53
915		Lenn Webb, Hawesville	5.95
916		Buechel Produce Exchange, Buechel	5.64
		Guaranteed	
461	Hopkins Old Time 4-12-8 (Sulfate)	Manufacturer	4.19
		Guaranteed	
462	Hopkins Old Time 4-10-6	Manufacturer	4.70
		Guaranteed	
689	Hopkins Old Time 4-10-4	J. F. Smith, Brodhead	3.96
917		Frank J. Murphy, Valley Station	3.42
918		Buechel Produce Exchange, Buechel	3.81
		Guaranteed	
919	Hopkins Old Time 4-8-4	Climax Roller Mills, Shelbyville	3.85
920		G. C. McPhetridge, London	3.80
		Guaranteed	
921	Hopkins Old Time 3-10-3	Buechel Produce Exchange, Buechel	2.97
922		G. C. McPhetridge, London	3.17
1286		Conner-Hayden Co., Bardstown	2.93
		Guaranteed	
466	Hopkins Old Time 3-8-6 Muriate, 10 Sulfate	Manufacturer	3.14
		Guaranteed	
923	Hopkins Old Time 3-8-10	C. B. Nicely, Mount Vernon	2.88
		Guaranteed	
690	Hopkins Old Time 3-8-6	J. F. Smith, Brodhead	2.80
691		H. D. Jones, Glasgow	2.71
925		Frank J. Murphy, Valley Station	2.83
926		Conner-Hayden Co., Bardstown	2.76
1287		Buechel Produce Exchange, Buechel	2.36
		Guaranteed	
1288	Hopkins Old Time 2-12-6	Buechel Produce Exchange, Buechel	1.93
		Guaranteed	
927	Hopkins Old Time 2-10-4	T. I. Smith, Cane Valley	1.91
928		McFarland Implement and Seed Co., Bowling Green	1.83
		Guaranteed	

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TABLE I.

	Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
		20.80							72.8	48
		20.50							71.8	
		16.24							56.8	49
		16.00							56.0	
5.10	6.33	8.45					7.75		41.6	50
	6.00	8.00					6.00		37.8	
5.93	6.45	8.60					4.68		38.5	51
	6.00	8.00					4.00		35.4	
6.16	6.16	15.25					6.12		47.2	52
	5.00	15.00					5.00		46.5	
r	5.35	5.66	9.50				6.76		39.3	687
	5.53	5.81	9.80				6.05		39.4	688
	5.95	6.16	9.05				6.63		40.4	915
chel	5.64	5.64	8.80				6.28		37.8	916
		6.00	8.00				6.00		37.8	
	4.19	4.19	12.75					9.45	41.3	461
		4.00	12.00					8.00	38.0	
	4.70	4.95	11.00				7.88		40.1	462
		4.00	10.00				6.00		33.2	
	3.96	4.24	10.90				4.34		33.1	689
n	3.42	3.74	11.00				4.63		31.9	917
chel	3.81	4.05	12.15				4.71		34.5	918
		4.00	10.00				4.00		30.8	
	3.85	4.12	8.55				4.11		29.6	919
	3.80	4.05	8.95				4.20		30.0	920
		4.00	8.00				4.00		28.4	
echel	2.97	3.27	10.90				3.52		28.8	921
	3.17	3.45	10.55				3.70		29.2	922
	2.93	3.21	10.45				3.63		28.1	1286
		3.00	10.00				3.00		26.1	
	3.14	3.14	8.20				7.80	8.52	40.4	466
		3.00	8.00				6.00	10.00	39.3	
	2.88	3.12	8.75				10.19		33.7	923
		3.00	8.00				10.00		32.1	
	2.80	3.06	9.10				6.21		29.1	690
	2.71	2.99	9.10				6.17		28.8	691
n	2.83	3.14	8.95				6.26		29.2	925
	2.76	3.01	9.25				6.07		28.9	926
echel	2.36	2.63	9.50				7.39		29.5	1287
		3.00	8.00				6.00		27.3	
echel	1.93	2.15	13.05				6.57		31.1	1288
		2.00	12.00				6.00		28.6	
	1.91	2.22	11.10				4.83		26.9	927
Co.,										
	1.83	2.14	11.10				4.61		26.3	928
		2.00	10.00				4.00		23.8	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
	The Davison Chemical Corp., Hopkins Fertilizer Div.,	New Albany, Ind.—Cont.	
692	Hopkins Old Time 2-8-4	R. D. Reynolds, Cave City	1.87
693		J. F. Smith, Brodhead	1.77
929		Wm. P. Miller, Louisville	1.90
930		Buechel Produce Exchange, Buechel	1.85
1289		J. F. Smith, Brodhead	1.87
		Guaranteed	
473	Hopkins Old Time 0-10-10	Manufacturer	
		Guaranteed	
474	Hopkins Old Time Nitrate of Soda	Manufacturer	
		Guaranteed	4.03
475	Davco Granular 4-8-4	Manufacturer	
		Guaranteed	3.07
476	Davco Granular 3-8-6	Manufacturer	
		Guaranteed	2.26
477	Davco Granular 2-12-6	Manufacturer	
		Guaranteed	
931	Davco Granular 20% Super-phosphate	Farmers Supply Co., Eminence	
932		Keene Ice and Coal Co., Scottsville	
933		G. C. McPhetridge, London	
934		Duncan and Sherley, LaGrange	
1381		McFarland Implement and Seed Co., Bowling Green	
		Guaranteed	5.36
561	Hopkins Old Time 5-10-5	Manufacturer	
		Guaranteed	
935	Hopkins Old Time 0-10-4	V. R. Sanders, Rocky Hill	
		Guaranteed	
1205	Hopkins Old Time 20% Super-phosphate	Calvin Richards, Fordsville	
1290		Conner-Hayden Co., Bardstown	
1382		Keen Ice Co., Scottsville	
1383		H. D. Jones, Glasgow	
		Guaranteed	
1147	Hopkins Old Time Steamed Bone	Manufacturer	
		Guaranteed	
	Davison Chemical Corp., Read Phosphate Div.,	Nashville, Tenn.	
694	Red Diamond 2-8-4	W. M. Jasper, W. Somerset	2.17
936		J. E. Bryant, Scottsville	1.89
1384		Cecilian Milling Co., Elizabethtown	1.82
		Guaranteed	2.86
695	†3-8-6	W. M. Jasper, W. Somerset	3.16
696		Baughman Milling Co., Stanford	3.42
697		Harvey and Breeding, Glasgow	1.51
937		Farmers Supply Co., Middlesboro	2.81
939		Hughes Hardware Co., Franklin	2.84
1206		Farmers Supply Co., White Plains	
		Guaranteed	

TABLE I.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
1.87	2.15	8.95				4.06		23.1	692
1.77	2.02	9.20				4.35		23.3	693
1.90	2.15	9.20				4.15		23.6	929
1.85	2.19	8.20				4.86		23.3	930
1.87	2.13	8.65				4.80		23.6	1289
	2.00	8.00				4.00		21.4	
		10.70				12.37		27.7	473
		10.00				10.00		24.0	
	16.24							56.8	474
	16.00							56.0	
4.03	4.03	8.85				4.94		30.7	475
	4.00	8.00				4.00		28.4	
3.07	3.28	8.25				5.94		28.5	476
	3.00	8.00				6.00		27.3	
2.26	2.26	12.15				5.99		29.7	477
	2.00	12.00				6.00		28.6	
		21.35						25.6	931
		20.95						25.1	932
		20.90						25.1	933
		21.65						26.0	934
		20.05						24.1	1381
		20.00						24.0	
5.36	5.74	10.45				6.50		40.4	561
	5.00	10.00				5.00		35.5	
		10.60				4.37		18.0	935
		10.00				4.00		16.8	
		21.05						25.3	1205
		20.80						25.0	1290
		20.65						24.8	1382
		20.70						24.8	1383
		20.00						24.0	
	2.09		29.15	74	26			36.5	1147
	2.00		27.00					34.0	
2.17	2.42	8.80				3.69		23.5	694
1.89	2.24	10.55				3.86		25.1	936
1.82	2.22	8.50				4.67		23.6	1384
	2.00	8.00				4.00		21.4	
2.86	3.10	8.10				6.86		28.8	695
3.16	3.16	8.05				6.41		28.4	696
3.42	3.42	8.35				6.12		29.3	697
1.51	2.84	8.40				5.74		26.9	937
2.81	3.26	8.75				6.07		29.2	939
2.84	3.11	8.65				5.38		27.7	1206
	3.00	8.00				6.00		27.3	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
	Davison Chemical Corp., Read Phosphate Div., 3-8-6 (Sulfate)	Nashville, Tenn.—Cont. C. S. Brent Seed Co., Lexington	
617	.....	Guaranteed	3.29
940	Red Diamond 3-10-3	L. F. Thurmond, Murray	2.68
1207	.....	Sturgis Implement and Hardware Co., Sturgis	2.33
1291	.....	O. F. Shearer, Monticello	2.43
941	Red Diamond 4-8-4	Seay Bros., Holland	2.95
	.....	Guaranteed	
10	Red Diamond 4-8-6	Manufacturer	4.73
	.....	Guaranteed	
11	Red Diamond 4-10-4	Manufacturer	3.95
	.....	Guaranteed	
943	†Red Diamond 4-12-8	L. A. Collins, Lebanon	3.96
	.....	Guaranteed	
1209	†Red Diamond 5-10-5	O. M. Holloway, Mayfield	4.24
	.....	Guaranteed	
14	Red Diamond 0-10-10	Manufacturer	
	.....	Guaranteed	
15	Red Diamond 0-12-12	Manufacturer	
	.....	Guaranteed	
700	†20% Superphosphate	Farmers Supply Co., Ashland	
946	.....	V. C. Cooksey and Co., Fountain Run	
947	.....	J. H. and J. L. Lyons, Loretto	
1210	.....	Mayfield Milling Co., Mayfield	
1292	.....	G. M. Estes, Science Hill	
1293	.....	O. F. Shearer, Monticello	
1385	.....	E. A. Cohen, Greenville	
	.....	Guaranteed	
701	0-10-4 Potash Mixture	W. M. Jasper, W. Somerset	
948	.....	J. B. Hatcher and Co., Glasgow Junction	
1294	.....	G. M. Estes, Science Hill	
	.....	Guaranteed	
949	Raw Bone Meal	Hollingsworth-Young Hdw. Co., Bowling Green	
	.....	Guaranteed	
19	Steam Bone Meal	Manufacturer	
	.....	Guaranteed	
20	Muriate Potash	Manufacturer	
	.....	Guaranteed	
21	Sulfate Potash	Manufacturer	
	.....	Guaranteed	
22	Sulfate Ammonia	Manufacturer	
	.....	Guaranteed	
950	Nitrate Soda	Hughes Hardware Co., Franklin	
1211	.....	Guenther Hardware Co., Owensboro	
	.....	Guaranteed	
25	Red Diamond 6-8-4	Manufacturer	5.93
	.....	Guaranteed	

TABLE I.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
3.29	3.29	8.30				1.28	5.15	29.2	617
	3.00	8.00					6.00	27.3	
Co.,	2.68	3.24	10.35			3.29		27.7	940
	2.33	2.80	10.05			3.25		25.8	1207
	2.43	2.99	9.90			3.32		26.3	1291
		3.00	10.00			3.00		26.1	
	2.95	3.26	9.30			4.07		27.5	941
		4.00	8.00			4.00		28.4	
	4.73	5.16	8.85			6.41		36.4	10
		4.00	8.00			6.00		30.8	
	3.95	4.42	10.80			5.07		34.5	11
		4.00	10.00			4.00		30.8	
	3.96	4.17	12.50			9.74		41.3	943
		4.00	12.00			8.00		38.0	
	4.24	4.67	10.10			4.73		34.2	1209
		5.00	10.00			5.00		33.0	
		10.70				12.37		27.7	14
		10.00				10.00		24.0	
		12.80				14.38		32.6	15
		12.00				12.00		28.8	
Run		20.30						24.4	700
		20.10						24.1	946
		20.05						24.1	947
		20.75						24.9	1210
		20.55						24.7	1292
		20.05						24.1	1293
		20.70						24.8	1385
		20.00						24.0	
Junction		10.85				4.33		18.2	701
		10.90				4.44		18.4	948
		12.10				4.06		19.4	1294
		10.00				4.00		16.8	
		3.86	23.60	77	23			37.1	949
		3.70	20.00					33.0	
		2.09	29.15	74	26			36.5	19
		2.00	27.00					34.0	
						51.20		61.4	20
						50.00		60.0	
							50.48	60.6	21
							50.00	60.0	
								72.8	22
		20.80						71.8	
		20.50						56.3	950
boro		16.08						56.3	1211
		16.08						56.0	
		16.00						38.5	25
	5.93	6.45	8.60			4.68		35.4	
		6.00	8.00			4.00			

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
	Davison Chemical Corp., Read Phosphate Div.,	Nashville, Tenn.—Cont.	
26	Davco Homogeneous Granulated 3-10-3	Manufacturer	3.43
		Guaranteed	
1212	Davco Homogeneous Granulated 4-8-4	Mayfield Milling Co., Mayfield	4.08
1213		Guenther Hardware Co., Owensboro	3.45
		Guaranteed	
618	Davco Homogeneous Granulated 3-8-6	C. S. Brent Seed Co., Lexington	3.29
1386		Hughes Hardware Co., Franklin	2.93
		Guaranteed	
29	Davco Homogeneous Granulated 0-10-4	Manufacturer	
		Guaranteed	
1295	Davco Granulated 20% Superphosphate	J. H. and J. L. Lyons, Loretto	
1387		Hughes Hardware Co., Franklin	
1438		Marion Milling Co., Marion	
1439		Yopp Seed Co., Paducah	
		Guaranteed	6.16
31	Red Diamond 5-15-5	Manufacturer	
		Guaranteed	4.70
276	Red Diamond 4-10-6	Manufacturer	
		Guaranteed	
619	Davco Homogeneous Granulated 6-8-6	C. S. Brent Seed Co., Lexington	5.76
952		Robinson and Turley, Richmond	5.79
		Guaranteed	
621	Red Diamond 2-10-4 Black Guano	Manufacturer	1.69
		Guaranteed	
	Federal Chemical Co., Inc.,	Louisville, Ky.	1.86
953	†Federal 2-10-4	W. A. Robinson, Bremen	
		Guaranteed	3.21
703	Federal 3-10-3	Olive Hill Produce Co., Olive Hill	2.99
704		J. T. Chenault, Sonora	2.63
954		Edwards Feed Store, Campbellsville	2.97
955		Hall Seed Co., Louisville	2.56
1297		J. F. Stamper, Waynesburg	2.56
1388		Corbett Hardware Co., Elizabethtown	
		Guaranteed	2.65
957	†Federal 3-8-10	Crawford-Ferguson Co., Benton	
		Guaranteed	3.77
959	Federal 4-10-4	Hall Seed Co., Louisville	3.42
960		A. J. Bruner, Rineyville	
		Guaranteed	
1215	Federal 4-10-6	Dairymans Feed and Supply, Mayfield	3.65
1216		M. T. Riley, Paducah	3.50
		Guaranteed	

TABLE I.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
3.43	3.43 3.00	10.05 10.00				3.32 3.00		28.1 26.1	26
4.08	4.08	8.40				4.57		29.8	1212
3.45	3.89 4.00	9.30 8.00				3.96 4.00		29.5 28.4	1213
3.29	3.29	8.25				6.44		29.2	618
2.93	2.93 3.00	8.05 8.00				5.46 6.00		26.5 27.3	1386
		10.05 10.00				4.30 4.00		17.2 16.8	29
		20.75						24.9	1295
		19.80						23.8	1387
		20.25						24.3	1438
		20.20						24.2	1439
		20.00						24.0	
6.16	6.16 5.00	15.25 15.00				6.12 5.00		47.2 41.5	31
4.70	4.95 4.00	11.00 10.00				7.88 6.00		40.1 33.2	276
5.76	5.76	8.15				6.06		37.2	619
5.79	5.79 6.00	8.00 8.00				5.86 6.00		36.9 37.8	952
1.69	2.01 2.00	10.70 10.00				4.37 4.00		25.1 23.8	621
1.86	2.27 2.00	11.95 10.00				4.79 4.00		28.0 23.8	953
3.21	3.56	9.35				3.69		28.1	703
2.99	3.28	10.85				3.09		28.2	704
2.63	2.90	10.05				3.80		26.8	954
2.97	3.22	10.75				3.27		28.1	955
2.56	2.92	11.45				3.05		27.6	1297
2.56	2.95	11.20				3.07		27.5	1388
	3.00	10.00				3.00		26.1	
2.65	3.05	8.45				10.57		33.5	957
	3.00	8.00				10.00		32.1	
3.77	4.07	10.60				4.34		32.2	959
3.42	3.85 4.00	10.25 10.00				3.57 4.00		30.1 30.8	960
3.65	4.31	9.80				6.46		34.6	1215
3.50	3.94	11.30				6.14		34.7	1216
	4.00	10.00				6.00		33.2	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
	Federal Chemical Co., Inc.,	Louisville, Ky.—Cont.	
962	†Federal 5-10-5	I. K. Miller and Son., Campbellsville	4.53
964		Hall Seed Co., Louisville	4.40
		Guaranteed	
966	†Federal 6-8-6	Sowers Hardware Co., Frankfort	5.00
967		Williamsburg Hardware Co., Williamsburg	5.49
		Guaranteed	
969	Federal 4-12-0	Gentry McCauley, Versailles	3.27
		Guaranteed	
706	Federal 0-10-4	Hobart Warner, Nancy	
707		G. M. Estes, Science Hill	
970		E. C. Foltz, Louisville	
1218		Morganfield Hardware Co., Morganfield. Guaranteed	
971	Federal 0-44-0	Berea College, Berea	
		Guaranteed	
972	Federal Pure Bone 2-27-0	E. F. Pearson, Franklin	
		Guaranteed	
973	Federal Kalko-Phos 20%	Grayson County Supply Co., Leitchfield.	
1219		A. Bresler, Son and Co., Owensboro	
1389		Grayson County Supply Co., Leitchfield. Guaranteed	
947	Federal Lime Bone Phos- phate 20%	C. P. Farmer, Franklin	
1299		J. F. Stamper, Waynesburg	
1390		C. P. Farmer, Franklin	
1391		E. F. Pearson, Franklin	
		Guaranteed	
975	Money Maker 2-8-4	E. C. Foltz, Louisville	1.98
		Guaranteed	
976	Money Maker 0-20-0	E. C. Foltz, Louisville	
977		A. J. Bruner, Rineyville	
		Guaranteed	
1298	Federal 0-20-8	J. S. Squires Co., Cane Valley	
		Guaranteed	
978	Daybreak 2-8-4	Grayson County Supply Co., Leitchfield.	1.99
1392		Grayson County Supply Co., Leitchfield. Guaranteed	1.99
708	Daybreak 3-8-6	Union Grocery Co., Morehead	2.8
979		John P. Fister, Lexington	3.0
980		Grayson County Supply Co., Leitchfield.	2.8
981		Gray Tucker, Cynthiana	2.8
		Guaranteed	
709	Daybreak 4-8-4	Sandy Valley Grocery Co., Paintsville.	3.7
982		Fountain Run Feed Co., Fountain Run.	3.6
983		Denton Mercantile Co., Hillsboro	3.4
		Guaranteed	

TABLE I.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
						5.18		35.6	962
4.53	4.92	10.10				4.57		35.1	964
4.40	4.91	10.35				5.00		35.5	
	5.00	10.00				7.51		39.4	966
5.00	5.31	9.80							
						6.90		38.6	967
5.49	5.93	8.00				6.00		37.8	
	6.00	8.00						29.6	969
3.27	3.94	13.15						28.4	
	4.00	12.00						17.1	706
		10.00				4.21		17.6	707
		10.60				4.07		16.9	970
		9.65				4.43		17.1	1218
		10.30				3.93		16.8	
		10.00				4.00		53.0	971
		44.20						52.8	
		44.00						34.1	972
	2.15		26.60	84	16			34.0	
	2.00		27.00					25.1	973
		20.95						24.4	1219
		20.35						24.5	1389
		20.40						24.0	
		20.00							
		20.65						24.8	974
		20.20						24.2	1299
		20.50						24.6	1390
		20.20						24.2	1391
		20.00						24.0	
1.98	1.98	8.40				4.07		21.8	975
	2.00	8.00				4.00		21.4	
		20.55						24.7	976
		20.40						24.5	977
		20.00						24.0	
		19.50						34.9	1298
		20.00				9.60		33.6	
		8.50				4.49		23.3	978
1.99	2.19	8.25				4.00		22.3	1392
1.94	2.16	8.00				4.00		21.4	
	2.00	8.00				5.94		28.1	708
2.84	3.11	8.40				5.61		28.9	979
3.04	3.25	8.95				5.89		27.2	980
2.81	3.02	8.00				6.08		27.5	981
2.82	3.02	8.00				6.00		27.3	
	3.00	8.00				4.24		28.7	709
3.70	3.99	8.00				3.98		27.8	982
3.67	3.92	7.75				3.77		28.1	983
n Run	3.48	8.70				4.00		28.4	
	4.00	8.00							

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen	
710	Federal Chemical Co., Inc., †Daybreak 0-20-0	Louisville, Ky.—Cont.		
984		Sandy Valley Grocery Co., Ashland		
1221		Mt. Sterling Grocery Co., Mt. Sterling		
1393		Lone Oak Feed Store, Paducah		
		Wilson Hardware Co., Henderson		
		Guaranteed		
	Fox Chemical Co., Branch Federal Chem. Co., Inc.,	Louisville, Ky.		
711	Fox 2-8-4	G. M. Estes, Science Hill	2.00	
1222		Hagen-Landrum-Cook and Co., Tompkinsville	2.03	
		Guaranteed		
985		Fox 3-12-4	Wm. Stanley, South Corbin	2.87
			Guaranteed	
712		Fox 3-8-6	Burnside Milling Co., Burnside	3.06
986			A. B. Beale and Son, Murray	3.13
			Guaranteed	
713		Fox 0-20-0	J. T. Chenault, Sonora	
714			G. M. Estes, Science Hill	
987			Brown and Byerly, Vine Grove	
988			Knight Bros., Pleasureville	
1141			Henry Fulton, Frazer	
1394	Brown and Byerly, Vine Grove			
1440	A. B. Beale and Son, Murray			
			Guaranteed	
	Globe Fertilizer Co., Branch Federal Chem. Co., Inc.,	Louisville, Ky.		
715	Globe 2-8-4	A. L. Harmon and Son, Junction City	1.95	
989		I. K. Miller and Son, Campbellsville	2.06	
990		J. L. Taggart, Depoy	2.58	
991		Gentry McCauley, Versailles	2.14	
992		E. F. Pearson, Franklin	2.23	
1223		O. H. Stevens, Beaver Dam	2.15	
			Guaranteed	
716		Globe 3-8-6	A. L. Harmon and Son, Junction City	2.77
993			Berea Bargain Store, Berea	2.83
994			E. F. Pearson, Franklin	2.73
1224	G. C. Chester, Brewers		2.80	
1225	Ed. C. Hawkins, Paducah		2.20	
		Guaranteed		
995	Globe 4-8-4	E. F. Pearson, Franklin	3.5	
			Guaranteed	
717	Globe 0-20-0	L. C. Locke, Hiseville		
996		I. K. Miller and Son, Campbellsville		
1226		Finley Hardware Co., Madisonville		
1227		R. T. Horton, Utica		
1300		I. K. Miller and Son, Campbellsville		
1301		J. S. Squires and Co., Cane Valley		
1395		Finley Hardware Co., Madisonville		
1441		L. F. Thurmond, Murray		
		Guaranteed		

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
1443	Hutson Chemical Co., Hutson's Limed Superphosphate.	Murray, Ky. Dairyman's Feed and Supply Co., Mayfield	
1444		N. P. Hutson, Murray Guaranteed	
1008	International Agricultural Corp., International 6-8-6 (Sulfate)	Cincinnati, O., Wales, Tenn. H. B. Willoughby, Richmond Guaranteed	5.59
721	International 6-8-6	Cash and Cass, Brodhead Guaranteed	5.16
248	International 5-10-5	Manufacturer Guaranteed	4.49
1009	International 4-12-8 (Sulfate)	Richardson Grocery, Mt. Sterling Guaranteed	3.66
250	International 4-12-8	Manufacturer Guaranteed	3.63
722	International 4-10-6 (Sulfate)	Ingram and Murphy, Campton Woodson Lewis, Greensburg	3.08
1010		Guaranteed	3.10
1011	†International 4-16-4	Woodson Lewis, Greensburg Guaranteed	3.33
254	International 4-8-4 (Sulfate)	Manufacturer Guaranteed	3.54
255	International 4-8-4	Manufacturer Guaranteed	3.77
256	International 3-8-10	Manufacturer Guaranteed	2.83
723	International 3-8-6 (Sulfate)	Lawson Hardware Co., Greenup Carden and Carden, Irvington	2.55
1229		Guaranteed	2.61
724	International 3-8-6	C. M. Brown, W. Somerset	2.76
1013		Farris and Squires, Cane Valley	2.78
1230		M. C. Raymer, Bowling Green Guaranteed	2.89
259	International 3-10-3 (Sulfate)	Manufacturer Guaranteed	2.23
725	International 3-10-3	Ingram and Murphy, Campton	2.60
1014		W. H. Brock and Co., Maysville	2.65
1398		Cecilian Milling Co., Elizabethtown Guaranteed	2.58
1399	International 2-12-6	C. L. Jewell and Sons, Louisville Guaranteed	1.85
262	International 2-10-4 (Sulfate)	Manufacturer Guaranteed	1.59
726	International 2-10-4	C. M. Langdon, Science Hill Guaranteed	1.66
264	International 2-8-4 (Sulfate)	Manufacturer Guaranteed	1.54

TABLE I.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
		20.90						25.1	1443
		21.05						25.3	1444
		20.00						24.0	
5.59	6.21	9.20					6.31	40.4	1008
	6.00	8.00					6.00	37.8	
5.16	5.84	9.05				6.29		38.9	721
	6.00	8.00				6.00		37.8	
4.49	5.21	10.60				5.77		37.9	248
	5.00	10.00				5.00		35.5	
3.66	4.16	12.85				0.96	7.37	40.0	1009
	4.00	12.00					8.00	38.0	
3.63	4.21	12.40				7.35		38.4	250
	4.00	12.00				8.00		38.0	
3.08	3.98	11.15				0.96	4.94	34.4	722
3.10	4.01	10.90				0.96	5.00	34.3	1010
	4.00	10.00					6.00	33.2	
3.33	3.89	16.15				4.35		38.2	1011
	4.00	16.00				4.00		38.0	
3.54	4.09	8.95					3.88	29.7	254
	4.00	8.00					4.00	28.4	
3.77	4.16	9.20				4.25		30.7	255
	4.00	8.00				4.00		28.4	
2.83	3.31	8.65				9.53		33.4	256
	3.00	8.00				10.00		32.1	
2.55	3.05	8.65				1.36	5.28	29.0	723
2.61	3.06	9.90				2.24	4.47	30.6	1229
	3.00	8.00					6.00	27.3	
2.76	3.19	9.25				6.23		29.8	724
2.78	3.13	9.60				5.88		29.5	1013
2.89	2.89	8.65				6.23		28.0	1230
	3.00	8.00				6.00		27.3	
2.23	2.81	9.80				0.96	2.83	26.1	259
	3.00	10.00					3.00	26.1	
2.60	3.03	10.20				3.29		26.8	725
2.65	3.10	10.65				4.25		28.7	1014
2.58	2.92	10.40				3.26		26.6	1398
	3.00	10.00				3.00		26.1	
1.85	2.21	12.75				6.46		30.8	1399
	2.00	12.00				6.00		28.6	
1.59	2.09	10.00					4.46	24.7	262
	2.00	10.00					4.00	23.8	
1.66	2.09	10.00				3.55		23.6	726
	2.00	10.00				4.00		23.8	
1.54	1.97	8.45				0.80	3.19	21.8	264
	2.00	8.00					4.00	21.4	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
727	International Agricultural Corp., International 2-8-4	Cincinnati, O., Wales, Tenn.—Cont. Cash and Cass, Brodhead	1.61
728		C. M. Brown, W. Somerset	1.59
1015		Cecelian Milling Co., Elizabethtown	1.68
1303		Cash and Cass, Brodhead	1.64
1400		Cecelian Milling Co., Elizabethtown	1.96
266	International 4-12-0	Guaranteed	3.09
267	International 0-14-7	Manufacturer	
729	International 0-10-4	Guaranteed	
1304		C. M. Brown, W. Somerset	
1401		C. M. Brown, W. Somerset	
269	International 0-44-0	M. C. Raymer, Bowling Green	
730	†International 0-20-0	Guaranteed	
731		Manufacturer	
1016		Lawson Hardware Co., Greenup	
1305		A. M. Bristow, Horse Cave	
1306		Cecelian Milling Co., Elizabethtown	
1402		J. S. Squires and Co., Cane Valley	
1403		C. M. Brown, W. Somerset	
271	International Sulfate of Ammonia	R. M. Burnett and Son, Vine Grove	
272	International Nitrate of Soda 16%	Cecelian Milling Co., Elizabethtown	
273	International Muriate of Potash...	Guaranteed	
274	International Sulfate of Potash...	Manufacturer	
510	Joslin-Schmidt Corp., Square Brand 6-8-6	Guaranteed	5.04
511	Square Brand 6-8-6 (Sulfate)	Manufacturer	5.38
732	Square Brand 5-10-5 (Sulfate)	Guaranteed	3.98
513	Square Brand 4-10-6	Lewis Wholesale Co., Whitesburg	3.75
514	Square Brand 4-10-6 (Sulfate)	Guaranteed	3.14
1017	Square Brand 4-10-4	Manufacturer	3.38
1018		Guaranteed	3.57
516	Square Brand 4-8-4	Minges Hardware Co., Newport	3.84
1019	Square Brand 3-8-6	J. H. Fedders and Sons, Covington	2.79
		Guaranteed	

TABLE I.

	Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
Cont.	1.61	1.96	8.00				4.21		21.5	727
	1.59	1.91	8.40				4.22		21.8	728
htown	1.68	2.00	8.55				4.62		22.8	1015
	1.64	2.00	8.65				4.42		22.7	1303
htown	1.96	1.96	10.55				4.26		24.6	1400
		2.00	8.00				4.00		21.4	
	3.09	3.89	12.00						28.0	266
		4.00	12.00						28.4	
			13.50				7.31		25.0	267
			14.00				7.00		25.2	
			10.20				4.18		17.3	729
			10.40				5.14		18.7	1304
n			11.50				3.92		18.5	1401
			10.00				4.00		16.8	
			45.35						54.4	269
			44.00						52.8	
up			20.65						24.8	730
			21.60						25.9	731
htown			20.90						25.1	1016
alley			21.15						25.4	1305
			20.95						25.1	1306
Grove			21.90						26.3	1402
htown			20.50						24.6	1403
			20.00						24.0	
		21.00							73.5	271
		20.50							71.8	
		16.20							56.7	272
		16.00							56.0	
							51.60		61.9	273
							50.00		60.0	
							2.72	46.32	58.9	274
								48.00	57.6	
	5.04	5.81	8.25				6.26		37.8	510
		6.00	8.00				6.00		37.8	
	5.38	5.93	8.85				0.80	5.63	39.1	511
		6.00	8.00					6.00	37.8	
sburg	3.98	4.93	10.80				0.96	3.97	36.1	732
		5.00	10.00					5.00	35.6	
	3.75	4.37	10.60				6.41		35.7	513
		4.00	10.00				6.00		33.2	
	3.14	4.11	10.80				1.36	4.72	34.6	514
		4.00	10.00					6.00	33.2	
ort	3.38	3.92	10.40				4.48		31.6	1017
vington	3.57	4.17	10.25				4.72		32.6	1018
		4.00	10.00				4.00		30.8	
	3.84	4.29	9.50				4.60		31.9	516
		4.00	8.00				4.00		28.4	
vington	2.79	3.09	8.90				6.01		28.9	1019
		3.00	8.00				6.00		27.3	

TABLE I.

	Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
ngton	2.51	2.95	8.85				2.24	3.40	27.6	1020
		3.00	8.00					6.00	27.3	
	2.76	3.19	10.75				3.73		28.6	733
		3.00	10.00				3.00		26.1	
	1.76	2.16	8.00				4.49		22.6	520
		2.00	8.00				4.00		21.4	
	3.35	4.18	11.50						28.4	521
		4.00	12.00						28.4	
sburg			20.50						24.6	734
			20.00						24.0	
			44.30						53.2	524
			44.00						52.8	
		2.05		28.35	52	48			35.5	1231
		2.00		27.00					34.0	
		3.64		22.25	80	20			35.0	526
		3.70		22.00					35.0	
		16.08							56.3	527
		16.00							56.0	
		20.76							72.7	528
		20.50							71.8	
							51.48		61.8	529
							50.00		60.0	
								49.24	59.1	530
								48.00	57.6	
	2.22	5.68	11.40				3.53		37.8	531
		5.00	10.00				4.00		34.3	
	2.09	2.09	8.05				4.34		22.2	997
	2.71	2.93	8.80				4.25		25.9	998
on	3.80	4.11	8.55				4.16		29.6	999
ellsville	2.07	2.07	8.20				4.60		22.6	1000
ellsville	1.52	1.74	8.60				3.88		21.1	1302
		2.00	8.00				4.00		21.4	
	2.94	3.31	12.00				4.56		31.5	718
	2.56	2.85	12.50				3.73		29.5	1001
		3.00	12.00				4.00		29.7	
	2.78	3.03	9.25				5.92		28.8	1002
t	2.82	3.07	8.00				5.76		27.3	1003
	2.98	3.25	8.25				6.29		28.8	1004
el	2.29	2.55	9.85				6.44		28.5	1005
		3.00	8.00				6.00		27.3	
	3.44	3.69	8.10				4.64		28.2	1006
	3.42	4.01	8.40				4.36		29.4	1228
		4.00	8.00				4.00		28.4	
			20.85						25.0	720
on			19.50						23.4	1007
			20.50						24.6	1396
on			20.25						24.3	1442
			20.00						24.0	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
53	Knoxville Fertilizer Co., Pulverized Five-Ten-Five	Knoxville, Tenn., Nashville, Tenn. Manufacturer Guaranteed	4.69
54	Pulverized Four-Twelve-Eight ..	Manufacturer Guaranteed	3.25
55	Fulverized Four-Ten-Six	Manufacturer Guaranteed	3.66
1021	Knox Triple "A" 4-10-4	Renfro Supply Co., Williamsburg Guaranteed	3.33
58	Basic Four-Eight-Four	Manufacturer Guaranteed	3.33
1023	Basic Three-Ten-Three	Allison Shipp, Campbellsville	2.84
1024		Grays Hardware Co., Gray	2.60
1405		Otto Keith, Upton	2.57
1025	Knox 3-8-6	Greenville Feed Store, Lebanon	2.59
1026		Harris Feed Co., Franklin	2.64
735	Basic Three-Eight-Six	Guaranteed	3.16
1027		J. C. Burleson, Waynesburg	3.03
1028		Renfro Supply Co., Williamsburg	3.13
736	3-8-5	Jellico Grocery Co., Harlan	3.13
737		Guaranteed	2.45
1029		J. C. Gadberry, Hiseville	2.47
1030		Joe Aldridge, Lancaster	2.54
1232		Bohannon Coal and Feed Co., Versailles	2.37
1406	Knox 2-10-4	Farris and Squires, Cane Valley	2.48
738	Knox 2-8-4	H. B. McClary, Auburn	1.68
1031		Guaranteed	2.13
739	†Basic O-Ten-Four	Otto Keith, Upton	2.02
740		Guaranteed	
1032		C. M. Langdon, Science Hill	
1233		Dixie Feed Store, Middlesboro	
1234		Guaranteed	
1307		G. H. Bowles and Son, Glasgow	
1407		C. M. Langdon, Science Hill	
1408		Farris and Squires, Cane Valley	
1409		T. W. Hall, Elkton	
1410		J. R. Hinch, Marion	
66	Knox Magnesia Phosphate 44%	Allison Shipp, Campbellsville	
		Harris Feed Co., Franklin	
		G. H. Bowles and Son Glasgow	
		Moore Grocery Co., Central City	
		Vick Smith, Bowling Green	
		Guaranteed	
		Manufacturer	
		Guaranteed	

TABLE I.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
4.69	4.98	10.70				5.22		36.5	53
	5.00	10.00				5.00		35.5	
3.25	3.87	12.65				8.42		38.8	54
	4.00	12.00				8.00		38.0	
3.66	3.94	10.65				6.19		34.0	55
	4.00	10.00				6.00		33.2	
3.83	4.08	10.70				4.21		32.3	1021
	4.00	10.00				4.00		30.8	
3.33	3.99	8.30				4.14		28.9	58
	4.00	8.00				4.00		28.4	
2.84	3.07	10.70				3.32		27.6	1023
2.60	2.82	10.55				3.36		26.6	1024
2.57	2.98	11.25				3.39		28.5	1405
	3.00	10.00				3.00		26.1	
2.59	2.91	8.75				5.88		27.8	1025
2.64	2.95	9.25				6.08		28.7	1026
	3.00	8.00				6.00		27.3	
3.16	3.16	8.65				6.11		28.8	735
3.03	3.03	8.95				6.50		29.2	1027
3.13	3.13	8.20				6.27		28.3	1028
	3.00	8.00				6.00		27.3	
2.45	2.99	9.30				3.44	1.59	27.8	736
2.47	2.95	8.35				3.12	2.06	26.6	737
2.54	3.00	8.50				3.12	2.19	27.1	1029
2.37	2.86	8.70				3.28	2.16	27.0	1030
2.48	2.91	8.75				3.20	2.01	26.9	1232
	3.00	8.00				3.00	2.00	26.1	
1.68	1.99	10.30				4.32		24.5	1406
	2.00	10.00				4.00		23.8	
2.13	2.13	8.50				4.23		22.7	738
2.02	2.02	8.25				4.33		22.2	1031
	2.00	8.00				4.00		21.4	
		10.65				4.41		18.1	739
		10.20				4.37		17.5	740
		10.30				4.61		17.9	1032
		10.85				4.31		18.2	1233
		10.15				4.40		17.5	1234
		10.60				4.48		18.1	1307
		10.10				4.60		17.6	1407
		10.20				4.58		17.7	1408
		10.45				4.63		18.1	1409
		10.50				4.53		18.0	1410
		10.00				4.00		16.8	
		44.80						53.8	66
		44.00						52.8	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Value of Nitrogen
	Knoxville Fertilizer Co., Knoxville, Tenn., Nashville, Tenn.—Cont.		
741	Knox Magnesia Phosphate 20%....	C. M. Langdon, Science Hill	
1033		Allison Shipp, Campbellsville	
1034		J. E. Bryant, Scottsville	
1235		Ross-Hollingsworth and Co., Tompkinsville	
1309		C. M. Langdon, Science Hill	
1310		Allison Shipp, Campbellsville	
1411		G. H. Bowles and Son, Glasgow	
1412		J. E. Bryant, Scottsville	
1413		H. B. McClary, Auburn	
1445		Guenther Hardware Co., Owensboro Guaranteed	
68	Basic Magnesia Phosphate 16%....	Manufacturer	
		Guaranteed	
1035	Nitrate of Soda	Vick Smith, Bowling Green	
		Guaranteed	
70	Commercial Sulfate of Ammonia..	Manufacturer	
		Guaranteed	
73	Sulfate of Potash	Manufacturer	
		Guaranteed	
1237	Raw Bone Meal	W. Bryant Robinson, Adairville	
1414		Vick Smith, Bowling Green	
		Guaranteed	
75	Steam Bone Meal	Manufacturer	
		Guaranteed	2.89
791	Knox 3-8-8	Manufacturer	
		Guaranteed	
	Louisville Fertilizer Co., (Armour Owned), Louisville 20% Superphosphate..	Cincinnati, O., Jeffersonville, Ind, Nashville, Tenn.	
742		H. D. Jones, Glasgow	
		Guaranteed	
	Missouri Dahlia Farms Co., Nature's Plant Food Sheep Manure	St. Louis, Mo.	
1258		Manufacturer	0.55
		Guaranteed	
	Morris Fertilizer Co., Div. of Armour and Co., Morris Gold Bond 0-10-4 Fertilizer	Cincinnati, O.	
1037		Copeland and Lane, Franklin	
		Guaranteed	1.66
1038	Morris Gold Bond 2-10-4 Fertilizer	Copeland and Lane, Franklin	
		Guaranteed	
	National Chemical Co., †Big Pay 6-8-6	Louisville, Ky.	
1039		Clarence LeBus and Sons Co., Cynthia	5.54
		Guaranteed	3.37
744	Big Pay 4-16-4	W. D. Cunningham, Webbs Cross Roads	
		Guaranteed	3.63
745	Big Pay 4-8-4	W. D. Cunningham, Webbs Cross Roads	
		Guaranteed	

TABLE I.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
		20.15						24.2	741
		19.80						23.8	1033
		21.05						25.3	1034
		20.55						24.7	1235
		22.00						26.4	1309
		21.00						25.2	1310
		20.10						24.1	1411
		21.00						25.2	1412
		20.75						24.9	1413
		20.75						24.9	1445
		20.00						24.0	
		16.30						19.6	68
		16.00						19.2	
	16.00							56.0	1035
	16.00							56.0	
	20.68							72.4	70
	20.50							71.8	
						3.68	45.88	59.5	73
							48.00	57.6	
	3.90		22.40	76	24			36.1	1237
	3.68		22.55	75	25			35.4	1414
	3.70		21.50					34.5	
	2.64		27.65	61	39			36.9	75
	2.77		24.00					32.7	
2.89	3.34	8.60				8.75		32.5	791
	3.00	8.00				6.00	2.00	29.7	
		20.05						24.1	742
		20.00						24.0	
0.55	2.01	2.10				4.14		14.5	1258
	2.00	1.00				2.00		10.6	
		10.30				4.60		17.9	1037
		10.00				4.00		16.8	
1.66	2.02	10.15				4.75		25.0	1038
	2.00	10.00				4.00		23.8	
5.54	5.83	9.10				5.61		38.1	1039
	6.00	8.00				6.00		37.8	
3.37	3.60	16.45				4.95		38.3	744
	4.00	16.00				4.00		38.0	
3.63	3.87	8.05				3.86		27.9	745
	4.00	8.00				4.00		28.4	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
	National Chemical Co.,	Louisville, Ky.—Cont.	
1042	†Big Pay 3-10-3	Greenville Feed Store, Lebanon	2.67
1043		Clarence LeBus and Sons Co., Cynthia	2.77
1415		E. S. Ferrill and Son, Buffalo	2.31
		Guaranteed	
1044	†Big Pay 3-8-6	E. S. Ferrill and Son, Buffalo	3.00
1045		Boyd and Youngman, Shelbyville	3.03
1046		Greenville Feed Store, Lebanon	3.05
1238		Hook Milling Co., Hardinsburg	2.39
1311		W. D. Cunningham, Webbs Cross Roads	3.01
		Guaranteed	
747	†Big Pay 2-8-4	W. D. Cunningham, Webbs Cross Roads	1.96
1047		E. S. Ferrill and Son, Buffalo	1.91
1312		W. D. Cunningham, Webbs Cross Roads	1.34
		Guaranteed	
1417	Big Pay 0-10-4	E. S. Ferrill and Son, Buffalo	
		Guaranteed	
748	†Big Pay 0-20-0	W. D. Cunningham, Webbs Cross Roads	
1048		E. S. Ferrill and Son, Buffalo	
1313		W. D. Cunningham, Webbs Cross Roads	
1418		E. S. Ferrill and Son, Buffalo	
		Guaranteed	
	North American Fertilizer Co., Inc.	Louisville, Ky.	
1050	†North American 6-8-6	L. C. Littrell, Owenton	5.44
		Guaranteed	
1052	North American 6-8-3 (Sulfate)	W. C. Howk, Cynthia	5.76
		Guaranteed	
749	North American 5-10-5	Weddle and Turpin, Nancy	4.40
		Guaranteed	
750	North American 4-16-4	W. W. Owens, Russell Springs	3.64
		Guaranteed	
752	†North American 4-12-0	Clell Coleman and Son, Harrodsburg	3.45
		Guaranteed	
1055	North American 4-10-4	Bunton Seed Co., Louisville	3.76
		Guaranteed	
753	North American 4-8-4	Clell Coleman and Son, Harrodsburg	3.63
		Guaranteed	
754	North American 3-10-3	Otto Keith, Upton	2.33
755		Weddle and Turpin, Nancy	2.87
756		W. W. Owens, Russell Springs	2.90
1056		L. Sherman Toles, Lexington	2.46
1057		A. G. Miller, Magnolia	2.32
1314		Henry Durham, Greensburg	2.08
1315		W. W. Owens, Russell Springs	2.64
1419		A. G. Miller, Magnolia	2.48
		Guaranteed	
757	North American 3-8-6	O. E. Rippetoe, Russell Springs	3.14

TABLE I.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
2.67	2.89	9.75				3.89		26.5	1042
2.77	3.05	10.35				3.98		27.9	1043
2.31	2.69	10.25				3.67		26.1	1415
	3.00	10.00				3.00		26.1	
3.00	3.20	8.15				5.85		28.0	1044
3.03	3.24	8.30				6.16		28.7	1045
3.05	3.25	8.15				6.02		28.4	1046
2.39	2.67	8.80				7.24		28.6	1238
3.01	3.26	8.45				5.77		28.5	1311
	3.00	8.00				6.00		27.3	
1.96	1.96	8.70				5.02		23.3	747
1.91	2.22	7.90				5.96		24.4	1047
1.34	1.59	8.40				4.09		20.6	1312
	2.00	8.00				4.00		21.4	
		10.40				4.48		17.9	1417
		10.00				4.00		16.8	
		20.90						25.1	748
		20.50						24.6	1048
		19.90						23.9	1313
		19.70						23.6	1418
		20.00						24.0	
5.44	5.76	8.20				5.84		37.0	1050
	6.00	8.00				6.00		37.8	
5.76	6.10	8.45				1.60	1.91	35.7	1052
	6.00	8.00					3.00	34.2	
4.40	4.66	10.00				5.63		35.1	749
	5.00	10.00				5.00		35.5	
3.64	3.87	16.95				4.27		39.0	750
	4.00	16.00				4.00		38.0	
3.45	3.74	12.30						27.9	752
	4.00	12.00						28.4	
3.76	4.09	9.85				4.55		31.6	1055
	4.00	10.00				4.00		30.8	
3.63	3.87	7.80				5.00		28.9	753
	4.00	8.00				4.00		28.4	
2.83	3.08	9.85				3.49		26.8	754
2.87	3.11	10.25				3.39		27.3	755
2.90	3.12	10.65				3.30		27.7	756
2.46	2.73	10.00				6.33		29.2	1056
2.82	3.04	10.30				3.40		27.1	1057
2.08	2.48	10.20				4.24		26.0	1314
2.64	3.03	10.30				3.10		26.7	1315
2.48	2.89	10.00				3.40		26.2	1419
	3.00	10.00				3.00		26.1	
3.14	3.14	8.30				6.67		29.0	757

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
North American Fertilizer Co., Inc., Louisville, Ky.—Cont.			
1058	North American 3-8-6 (Cont.)	Browning Coal and Feed Co., Winchester	2.08
1059		Aaron L. Moore, Leitchfield	2.58
1060		Henry Durham, Greensburg	2.99
1061		A. G. Miller, Magnolia	2.57
		Guaranteed	
758	†North American 2-8-4	W. W. Owens, Russell Springs	1.45
1062		Henry Durham, Greensburg	1.66
1316		Henry Durham, Greensburg	1.55
1317		W. W. Owens, Russell Springs	1.64
1420		R. D. Reynolds, Cave City	1.25
		Guaranteed	
1241	†North American 0-10-4	Olden Lake, Livia	
1318		W. W. Owens, Russell Springs	
		Guaranteed	
1064	North American 0-20-0	Ivan Jett, Stamping Ground	
1319		W. W. Owens, Russell Springs	
1421		Otto Keith, Upton	
1422		R. D. Reynolds, Cave City	
		Guaranteed	
Price Chemical Co., Inc., Louisville, Ky.			
760	2-8-4	Noah Hall, Morehead	2.23
1065		W. L. Anderson and Son, Caneyville	1.72
1242		R. Z. Hook, Hardinsburg	1.87
1446		Harralson's Feed and Seed Store, Owensboro	1.67
		Guaranteed	
1066	2-10-4	Monarch Milling Co., Mt. Sterling	1.85
1067		DeBord Produce Co., London	1.82
1424		Vine Grove Feed Co., Vine Grove	1.71
		Guaranteed	
1447	2-12-6	Harralson's Feed and Seed Store, Owensboro	1.79
		Guaranteed	
761	3-8-6	Roscoe Meadows, Clay City	3.27
1068		Vine Grove Feed Co., Vine Grove	3.05
1069		Walters and Thompson, Shelbyville	3.02
1070		Pruett and Pruett, Halfway	3.16
1243		J. S. Whittinghill, Fordsville	2.85
1448		Harralson's Feed and Seed Store, Owensboro	2.73
		Guaranteed	
1071	3-8-6 (Sulfate)	Monarch Milling Co., Mt. Sterling	2.68
1072		Fox Bros., Winchester	2.84
		Guaranteed	
1073	3-8-10	Collins Hardware Co., Frankfort	2.92
1074		Ausenbaugh and Dillingham, Dawson Springs	3.10
		Guaranteed	

TABLE I.

	Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
Winchester	2.08	2.52	7.65				8.23		27.8	1058
	2.58	2.78	8.85				6.22		27.8	1059
	2.99	2.99	8.45				6.38		28.3	1060
	2.57	2.77	9.50				6.69		29.1	1061
		3.00	8.00				6.00		27.3	
	1.45	1.75	8.40				4.15		21.2	758
	1.66	1.94	8.15				4.35		21.8	1062
	1.55	1.93	8.35				4.18		21.8	1316
	1.64	1.93	9.00				4.21		22.6	1317
	1.25	1.60	8.40				4.26		20.8	1420
		2.00	8.00				4.00		21.4	
			9.85				4.08		16.7	1241
			9.85				4.24		16.9	1318
			10.00				4.00		16.8	
			19.50						23.4	1064
			19.50						23.4	1319
			19.35						23.2	1421
			19.65						23.6	1422
			20.00						24.0	
	2.23	2.55	8.70				4.63		24.9	760
eyville	1.72	2.01	8.40				4.11		22.1	1065
	1.87	2.23	8.25				5.68		24.5	1242
ore,	1.67	2.02	9.05				5.09		24.0	1446
		2.00	8.00				4.00		21.4	
ling	1.85	2.19	9.70				4.97		25.3	1066
	1.82	2.17	10.90				4.24		25.8	1067
ove	1.71	2.16	10.70				4.95		26.3	1424
		2.00	10.00				4.00		23.8	
ore,	1.79	2.25	12.75				6.22		30.7	1447
		2.00	12.00				6.00		28.6	
	3.27	3.65	8.75				5.92		30.4	761
rove	3.05	3.43	8.65				5.73		29.1	1068
byville	3.02	3.41	8.35				6.13		29.3	1069
	3.16	3.57	8.35				6.17		29.9	1070
	2.85	3.25	8.65				6.55		29.6	1243
ore,	2.73	3.17	8.70				5.72		28.4	1448
		3.00	8.00				6.00		27.3	
ling	2.68	3.06	8.35				1.28	5.08	28.4	1071
	2.84	3.27	8.00				0.96	5.65	29.0	1072
		3.00	8.00					6.00	27.3	
fort	2.92	3.33	8.65				9.88		33.9	1073
	3.10	3.53	8.45				10.66		35.3	1074
		3.00	8.00				10.00		32.1	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
	Price Chemical Co., Inc.,	Louisville, Ky.—Cont.	
1075	3-8-10 (Sulfate)	N. G. Coates, Sparta	2.80
		Guaranteed	
762	3-10-3	G. M. Hedrick, Monticello	2.98
1076		St. Matthews Produce Exchange,	2.89
		St. Matthews	2.68
1320		G. M. Hedrick, Monticello	2.84
1425		Vine Grove Feed Co., Vine Grove	
		Guaranteed	3.91
84	3-12-4	Manufacturer	
		Guaranteed	3.79
1077	4-8-4	H. W. Noland, Richmond	
		Guaranteed	5.21
86	4-8-4 (Sulfate)	Manufacturer	
		Guaranteed	5.14
87	4-10-6	Manufacturer	
		Guaranteed	
1078	4-8-6	St. Matthews Produce Exchange,	3.87
		St. Matthews	3.29
1426		Oscar Farmer and Sons, Louisville	
		Guaranteed	4.07
763	4-10-4	Roscoe Meadows, Clay City	3.78
1079		Gish Furniture Co., Central City	
		Guaranteed	4.92
90	4-12-8	Manufacturer	
		Guaranteed	3.87
1080	4-12-8 (Sulfate)	N. G. Coates, Sparta	3.94
1081		Fox Bros., Winchester	
		Guaranteed	3.45
1082	4-12-0	Mountain Dew Coal Co., Lexington	
		Guaranteed	4.86
1083	5-10-5	Walters and Thompson, Shelbyville	
		Guaranteed	5.34
1085	6-8-6 (Sulfate)	H. W. Noland, Richmond	
		Guaranteed	
96	0-10-10 (With Lime Filler)	Manufacturer	
		Guaranteed	
764	0-10-4 (With Lime Filler)	Thomas Emerson, Eubank	
		Guaranteed	
98	0-44-0	Manufacturer	
		Guaranteed	
765	0-20-0 (With Lime Filler)	G. M. Hedrick, Monticello	
1086		Gish Furniture Co., Central City	
1087		St. Matthews Produce Exchange,	
		St. Matthews	
1088		Pruett and Pruett, Halfway	
1321		Walters and Thompson, Shelbyville	
1427		J. B. Hatcher and Co., Park City	
		Guaranteed	
100	0-20-0 With 220 lb. Sterilized Tobacco Stems	Manufacturer	
		Guaranteed	

TABLE I.

Water-soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
2.80	3.18	8.40				1.52	8.80	33.6	1075
	3.00	8.00					10.00	32.1	
2.98	3.49	10.85				3.62		29.6	762
2.89	3.24	10.75				3.93		29.0	1076
2.68	3.10	10.55				3.91		28.2	1320
2.84	3.39	10.40				3.94		29.1	1425
	3.00	10.00				3.00		26.1	
3.91	3.91	13.25				4.75		35.3	84
	3.00	12.00				4.00		29.7	
3.79	4.16	8.45				4.16		29.7	1077
	4.00	8.00				4.00		28.4	
5.21	5.21	9.60					4.72	35.4	86
	4.00	8.00					4.00	28.4	
5.14	5.14	11.30				7.11		40.1	87
	4.00	10.00				6.00		33.2	
3.87	4.32	8.65				5.90		32.6	1078
3.29	3.77	10.35				5.88		32.7	1426
	4.00	8.00				6.00		30.8	
4.07	4.55	10.45				4.18		33.5	763
3.78	4.23	10.25				4.61		32.6	1079
	4.00	10.00				4.00		30.8	
4.92	5.04	13.10				9.28		44.5	90
	4.00	12.00				8.00		38.0	
3.87	4.32	12.20				1.36	6.69	39.4	1080
3.94	4.41	12.00				0.96	7.17	39.6	1081
	4.00	12.00					8.00	38.0	
3.45	4.30	12.55						30.1	1082
	4.00	12.00						28.4	
4.86	5.36	10.40				5.41		37.7	1083
	5.00	10.00				5.00		35.5	
5.34	5.75	8.40				0.96	5.19	37.6	1085
	6.00	8.00					6.00	37.8	
		10.60				11.41		26.4	96
		10.00				10.00		24.0	
		10.80				3.74		17.5	764
		10.00				4.00		16.8	
		45.35						54.4	98
		44.00						52.8	
		20.10						24.1	765
City		20.05						24.1	1086
range,		20.15						24.2	1087
		20.45						24.5	1088
elbyville		20.80						25.0	1321
City		20.75						24.9	1427
		20.00						24.0	
		22.45						26.9	100
		20.00						24.0	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water % N
		Louisville, Ky.—Cont.	
101	Price Chemical Co., Inc., Raw Bone Meal 3.70-22-0	Manufacturer	
		Guaranteed	
102	Steamed Bone Meal 1.60-27-0	Manufacturer	
		Guaranteed	
103	Steamed Bone Meal 2.47-24-0	Manufacturer	
		Guaranteed	
104	6-8-3	Manufacturer	7.59
		Guaranteed	
105	6-8-3 (Sulfate)	Manufacturer	7.86
		Guaranteed	
	Rasin-Monumental Co., Subsidiary Virginia-Carolina Chem. Corp., Inc.,	Cincinnati, O., Mt. Pleasant, Tenn.	
319	Rasin's 4-8-4	Manufacturer	4.02
		Guaranteed	
320	Rasin's 6-8-6	Manufacturer	6.25
		Guaranteed	
321	Rasin's 4-12-0	Manufacturer	3.70
		Guaranteed	
322	Rasin's 4-10-6	Manufacturer	3.90
		Guaranteed	
323	Rasin's 3-12-4	Manufacturer	3.16
		Guaranteed	
324	Rasin's 3-10-3	Manufacturer	2.57
		Guaranteed	
325	Rasin's 3-8-10	Manufacturer	3.12
		Guaranteed	
326	Rasin's 3-8-6	Manufacturer	2.81
		Guaranteed	
327	Rasin's 3-8-6 (Sulfate)	Manufacturer	2.90
		Guaranteed	
328	Rasin's 2-10-4	Manufacturer	1.79
		Guaranteed	
329	Rasin's 2-8-4	Manufacturer	1.83
		Guaranteed	
330	Rasin's 0-10-4	Manufacturer	
		Guaranteed	
331	Rasin's 20%	Manufacturer	
		Guaranteed	
	Standard Wholesale Phosphate and Acid Works,	Baltimore, Md.	
769	Standard 20% Superphosphate	Kentucky Wholesale Co., Pikeville	
1089		R. M. Burnett and Son, Vine Grove	
1449		Yopp Seed Co., Paducah	
		Guaranteed	
766	Standard 5-10-5	Kentucky Wholesale Co., Pikeville	4.16
		Guaranteed	
767	Standard 4-12-4	Kentucky Wholesale Co., Pikeville	3.88
		Guaranteed	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
768	Standard Wholesale Phosphate and Acid Works, Standard 4-8-6	Baltimore, Md.—Cont. Kentucky Wholesale Co., Pikeville Guaranteed	3.50
1090	Swift and Co., Fertilizer Works, Swift's Red Steer 5-10-5	National Stock Yards, Ill. Geo. C. Goode, Covington Guaranteed	4.62
139	Swift's Red Steer 4-16-4	Manufacturer Guaranteed	3.79
1091	†Swift's Red Steer 4-12-8 (Sulfate)	L. N. Kratzer, Mt. Sterling Guaranteed	3.85
141	Swift's Red Steer 4-12-4	Manufacturer Guaranteed	3.18
771	Swift's Red Steer 4-10-6 (Sulfate)	Beaty Bros., Science Hill	3.65
1092		Millersburg Coal and Lumber Co., Millersburg Guaranteed	3.62
143	Swift's Red Steer 4-10-6	Manufacturer Guaranteed	3.61
772	Swift's Red Steer 4-10-4	Farmers Supply Co., Harrodsburg	3.58
1093		Knight Bros., Pleasureville Guaranteed	4.29
145	Swift's Red Steer 4-8-6	Manufacturer Guaranteed	3.66
1094	Swift's Red Steer 4-8-4	Shelby Feed and Seed Co., Shelbyville	3.48
1095		L. N. Kratzer, Mt. Sterling Guaranteed	3.59
1096	Swift's Red Steer 3-12-4	Geo. C. Goode, Covington Guaranteed	2.63
148	Swift's Red Steer 3-10-3	Manufacturer Guaranteed	2.59
1097	Swift's Red Steer 3-8-6	Knight Bros., Pleasureville	2.66
1322		Farmers Supply Co., Danville Guaranteed	2.70
773	Swift's Red Steer 3-8-6 (Sulfate)	Beaty Bros., Science Hill	2.69
1098		Dorsey Bros. and Fisher, Carlisle	2.67
1099		Marcum Coal and Feed Co., Hodgenville	2.73
1100		Geo. C. Goode, Covington Guaranteed	2.54
774	Swift's Red Steer 2-10-4	Farmers Supply Co., Danville	1.71
775		Beaty Bros., Science Hill	1.71
1323		Farmers Supply Co., Danville Guaranteed	1.60
152	Swift's Red Steer 2-8-4	Manufacturer Guaranteed	1.61
153	Swift's Red Steer 0-14-7	Manufacturer Guaranteed	

TABLE I.

	Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
ville	3.50	3.96	9.00				6.32		32.2	768
		4.00	8.00				6.00		30.8	
	4.62	4.97	10.75				5.18		36.5	1090
		5.00	10.00				5.00		35.5	
	3.79	4.04	16.15				4.27		38.6	139
		4.00	16.00				4.00		38.0	
	3.85	4.25	12.30				1.04	6.91	39.2	1091
		4.00	12.00					8.00	38.0	
	3.18	3.60	12.60				4.13		32.8	141
		4.00	12.00				4.00		33.2	
	3.65	4.15	10.40					6.15	34.4	771
Co.,	3.62	3.99	10.85					6.11	34.3	1092
		4.00	10.00					6.00	33.2	
	3.61	4.00	10.10				6.34		33.7	143
		4.00	10.00				6.00		33.2	
burg	3.58	3.96	10.65				4.38		31.9	772
	4.29	4.56	10.55				4.15		33.6	1093
		4.00	10.00				4.00		30.8	
	3.66	4.02	8.35				6.23		31.6	145
		4.00	8.00				6.00		30.8	
elbyville	3.48	3.85	8.75				4.09		28.9	1094
	3.59	3.95	8.60				4.56		29.6	1095
		4.00	8.00				4.00		28.4	
	2.63	3.03	12.20				4.38		30.6	1096
		3.00	12.00				4.00		29.7	
	2.59	2.93	10.20				3.29		26.5	148
		3.00	10.00				3.00		26.1	
	2.66	2.88	8.95				6.29		28.4	1097
	2.70	3.11	9.00				1.20	4.80	28.9	1322
		3.00	8.00				6.00		27.3	
	2.69	2.97	8.80				0.72	5.19	28.1	773
rlisle	2.67	2.94	8.65				0.96	4.87	27.7	1098
Hodgenville	2.73	3.01	8.80				0.64	5.37	28.3	1099
	2.54	2.83	8.80				0.80	5.11	27.6	1100
		3.00	8.00					6.00	27.3	
	1.71	2.00	10.00				3.84		23.6	774
	1.71	1.99	10.00				4.31		24.1	775
	1.60	1.89	10.70				3.91		24.2	1323
		2.00	10.00				4.00		23.8	
	1.61	1.87	8.05				4.45		21.6	152
		2.00	8.00				4.00		21.4	
			14.20				7.52		26.1	153
			14.00				7.00		25.2	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
776	Swift and Co., Fertilizer Works, Swift's Red Steer 0-10-4	National Stock Yards, Ill.—Cont. Beaty Bros., Science Hill Guaranteed	
777	Swift's Red Steer 20% Superphosphate	Farmers Supply Co., Danville	
1101		Scottsville Feed Co., Scottsville	
1324		Farmers Supply Co., Danville Guaranteed	
156	Swift's Steam Bone Fertilizer	Manufacturer Guaranteed	
157	Swift's Raw Bone Fertilizer	Manufacturer Guaranteed	
158	Swift's Nitrate of Soda	Manufacturer Guaranteed	
159	Swift's Sulfate of Ammonia	Manufacturer Guaranteed	
160	Swift's Muriate of Potash	Manufacturer Guaranteed	
161	Swift's Sulfate of Potash	Manufacturer Guaranteed	
162	Swift's Vigoro 4-12-4	Manufacturer Guaranteed	3.99
163	Swift's Special Golf Fertilizer	Manufacturer Guaranteed	12.04
1102	Swift's Red Steer 4-12-0	Shelby Feed and Seed Co., Shelbyville Guaranteed	4.06
597	Swift's Red Steer 44% Superphosphate	Manufacturer Guaranteed	
	Tennessee Chemical Co. (Armour Owned),	Cincinnati, O., Jeffersonville, Ind., Nashville, Tenn.	
1103	Ox 2-10-4	J. H. Maholland, Franklin	1.68
1105		Sexton Bros., Murray	1.43
1106		M. L. Levi, Pembroke	1.51
1244		V. B. Nuckols, Elkton Guaranteed	1.44
1107	Ox 20% Superphosphate	S. B. Bilbro, Nortonville	
1108		Sexton Bros., Murray	
1428		V. B. Nuckols, Elkton	
1450		Sexton Bros., Murray Guaranteed	
1104	Ox 0-10-4 Fertilizer	J. H. Maholland, Franklin Guaranteed	
1245	Ox 2-12-6 Fertilizer	John W. Whittemore, Hickory Guaranteed	1.80
1109	†Ox 4-12-8 Fertilizer	Young Hardware Co., Hopkinsville Guaranteed	3.40
1246	Ox 0-10-10 Fertilizer	V. B. Nuckols, Elkton Guaranteed	

TABLE I.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
		9.35				4.62		16.8	776
		10.00				4.00		16.8	
		20.50						24.6	777
		20.95						25.1	1101
		21.35						25.6	1324
		20.00						24.0	
	1.99		26.35	83	17			33.3	156
	2.00		26.00					33.0	
	4.07		23.70	44	56			38.0	157
	3.70		23.00					36.0	
	16.20							56.7	158
	15.00							52.5	
	20.80							72.8	159
	20.50							71.8	
						49.88		59.9	160
						50.00		60.0	
							49.96	60.0	161
							48.00	57.6	
3.99	3.99	11.70				4.64		33.6	162
	4.00	12.00				4.00		33.2	
12.04	12.04	6.60				3.98		54.8	163
	12.00	6.00				4.00		54.0	
4.06	4.48	12.05						30.1	1102
	4.00	12.00						28.4	
		46.55						55.9	597
		44.00						52.8	
1.68	2.00	10.60				4.25		24.8	1103
1.43	1.95	10.25				4.07		24.0	1105
1.51	1.94	10.05				4.30		24.0	1106
1.44	1.82	11.00				4.15		24.6	1244
	2.00	10.00				4.00		23.8	
		20.45						24.5	1107
		20.05						24.1	1108
		20.65						24.8	1428
		20.15						24.2	1450
		20.00						24.0	
		10.40				4.26		17.6	1104
		10.00				4.00		16.8	
1.80	2.36	13.45				5.99		31.6	1245
	2.00	12.00				6.00		28.6	
3.40	3.84	11.65				7.99		37.0	1109
	4.00	12.00				8.00		38.0	
		10.55				9.31		23.8	1246
		10.00				10.00		24.0	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
280	Tennessee Corporation, Loma 5-10-4	Lockland, O. Manufacturer Guaranteed	4.67
281	Soil-Prep 4-2-2	Manufacturer Guaranteed	3.03
603	20% Superphosphate	Manufacturer Guaranteed	3.00
604	3-8-6	Manufacturer Guaranteed	3.90
605	4-10-6	Manufacturer Guaranteed	
	Virginia-Carolina Chemical Corp., Inc.,	Cincinnati, O., Mt. Pleasant, Tenn.	
778	V-C 4-8-4 (Sulfate)	A. T. Sanders, Lancaster Guaranteed	3.46
1111	V-C 4-10-6	Scottsville Feed Co., Scottsville	3.13
1248		Agnes Davis, Russellville Guaranteed	3.20
779	V-C 4-8-4	Polson and Co., Glasgow	3.87
1112		Richmond Hatchery, Richmond Guaranteed	3.71
1113	V-C 3-12-4	Knox County Supply Co., Barbourville	2.84
1114		P. S. Young, Caneyville	2.73
1429		Young Lumber Co., Beaver Dam Guaranteed	2.40
780	V-C 3-10-3	G. W. Bowling and Son, Catlettsburg	2.86
1115		Dyche Jones, London	2.73
1325		Dyche Jones, London	2.88
1326		A. T. Sanders, Lancaster	2.73
1430		Scottsville Feed Co., Scottsville Guaranteed	2.80
781	V-C 2-8-4	Geo. Richardson, Somerset	2.04
1116		I. K. Miller and Son, Campbellsville	1.81
1117		R. W. Scates, Crofton	1.74
1249		Young Lumber Co., Beaver Dam	1.54
1327		J. L. Tupman, Columbia	2.01
1328		I. K. Miller and Son, Campbellsville	1.96
1431		Scottsville Feed Co., Scottsville	1.89
1432		Polson and Co., Glasgow	2.05
1433		Young Lumber Co., Beaver Dam Guaranteed	2.10
1118	V-C 6-8-6	Richmond Hatchery, Richmond	5.85
1119		Woodford Spears and Sons, Paris Guaranteed	5.05
1250	†V-C 4-12-8	Agnes Davis, Russellville Guaranteed	3.54
290	V-C 4-12-8 (Sulfate)	Manufacturer Guaranteed	4.14
1121	V-C 2-10-4	Scottsville Feed Co., Scottsville Guaranteed	2.09

TABLE I.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
4.67	5.10	10.60				4.34		35.8	280
	5.00	10.00				4.00		34.3	
3.03	4.47	3.30				2.14		22.2	281
	4.00	2.00				2.00		18.8	
		20.10						24.1	603
		20.00						24.0	
3.00	3.00	8.25				6.41		28.5	604
	3.00	8.00				6.00		27.3	
3.90	4.14	10.55				6.23		34.6	605
	4.00	10.00				6.00		33.2	
3.46	3.66	8.65				1.20	4.03	29.5	778
	4.00	8.00					4.00	28.4	
3.13	3.98	10.00				6.15		33.3	1111
3.20	3.98	10.00				6.15		33.3	1248
	4.00	10.00				6.00		33.2	
3.87	4.07	9.20				4.46		30.6	779
3.71	3.97	8.70				4.71		30.0	1112
	4.00	8.00				4.00		28.4	
2.84	3.13	12.55				4.38		31.3	1113
2.73	3.02	12.90				4.09		31.0	1114
2.40	2.72	12.00				4.21		29.0	1429
	3.00	12.00				4.00		29.7	
2.86	3.13	10.50				3.30		27.5	780
2.73	3.00	10.75				3.20		27.2	1115
2.88	3.17	11.25				3.09		28.3	1325
2.73	3.00	11.00				3.02		27.3	1326
2.80	3.04	10.55				3.18		27.1	1430
	3.00	10.00				3.00		26.1	
2.04	2.04	8.45				4.26		22.4	781
1.81	2.04	8.25				4.17		22.0	1116
1.74	2.02	8.80				4.07		22.5	1117
1.54	1.99	9.35				4.41		23.5	1249
2.01	2.01	8.60				4.11		22.3	1327
1.96	1.96	8.40				4.00		21.7	1328
1.89	2.11	8.70				4.38		23.1	1431
2.05	2.05	8.65				4.20		22.6	1432
2.10	2.10	8.90				4.23		23.1	1433
	2.00	8.00				4.00		21.4	
5.85	5.85	8.70				6.23		38.4	1118
5.05	5.29	8.90				6.42		36.9	1119
	6.00	8.00				6.00		37.8	
3.54	3.75	12.60				7.55		37.3	1250
	4.00	12.00				8.00		38.0	
4.14	4.14	11.80					8.46	38.8	290
	4.00	12.00					8.00	38.0	
2.09	2.09	11.05				4.06		25.5	1121
	2.00	10.00				4.00		23.8	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
	Virginia-Carolina Chemical Corp., Inc., Cincinnati, O., Mt. Pleasant, Tenn.—Cont.		
1329	†V-C 4-12-0	A. T. Sanders, Lancaster	3.45
293	V-C 3-8-10	Guaranteed	3.23
294	V-C Granulated Aero Cyanamid.....	Manufacturer	20.75
295	V-C Sulfate of Potash	Guaranteed	
782	V-C 3-8-6	Manufacturer	2.91
1124		Geo. Richardson, Somerset	2.91
1251		Farris and Squires, Cane Valley	2.99
1125	V-C 3-8-6 (Sulfate)	W. I. Smith, Sebree	2.88
1126		Guaranteed	2.79
298	V-C 10-6-4	I. K. Miller and Son, Campbellsville	10.20
299	V-C 0-10-10	Richmond Hatchery, Richmond	
784	V-C 0-10-4	Guaranteed	
1127		Manufacturer	
1128		Guaranteed	
1330		Geo. Richardson, Somerset	
1331		Froedge and Roach, Breeding	
301	V-C 44%	Scottsville Feed Co., Scottsville	
785	V-C 20%	I. K. Miller and Son, Campbellsville	
1129		E. J. Hines, Science Hill	
1130		Guaranteed	
1252		Manufacturer	
1332		Guaranteed	
1333		Geo. Richardson, Somerset	
1434		McGregor and Cluck, Dawson Springs	
1435		Knox County Supply Co., Barbourville	
1436		Coleman Bros., Marion	
303	V-C 2-27 Steamed Bone	E. J. Hines, Science Hill	
304	V-C 3.70-20-0 Raw Bone	I. K. Miller and Son, Campbellsville	
306	V-C Sulfate of Ammonia	Scottsville Feed Co., Scottsville	
307	V-C Muriate of Potash	Cottingham Grain Co., Henderson	
1253	V-C 3-8-10	Polson and Co., Glasgow	
560	V-C 1.65-27-0 Steamed Bone	Guaranteed	
		Manufacturer	
		Guaranteed	
		Agnes Davis, Russellville	3.12
		Guaranteed	
		Manufacturer	
		Guaranteed	

I. TABLE I.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
3.45	3.80	12.45						28.2	1329
	4.00	12.00						28.4	
3.23	3.23	8.70				10.07		33.8	293
	3.00	8.00				10.00		32.1	
20.75	21.28							74.5	294
	21.00							73.5	
							49.96	60.0	295
							48.00	57.6	
2.91	3.11	8.40				6.27		28.5	782
2.91	3.13	8.55				6.19		28.7	1124
2.99	2.99	9.30				6.01		28.8	1251
	3.00	8.00				6.00		27.3	
2.88	3.11	8.30				0.96	5.44	28.5	1125
2.79	3.02	8.30				1.52	5.00	28.4	1126
	3.00	8.00					6.00	27.3	
10.20	10.40	6.60				4.05		49.2	298
	10.00	6.00				4.00		47.0	
		10.20				11.27		25.8	299
		10.00				10.00		24.0	
		10.15				4.60		17.7	784
		9.95				4.58		17.4	1127
		10.40				4.31		17.7	1128
		10.50				4.32		17.7	1330
		10.40				4.72		18.1	1331
		10.00				4.00		16.8	
		44.95						53.9	301
		44.00						52.8	
		21.00						25.2	785
		21.45						25.7	1129
		21.00						25.2	1130
		21.40						25.7	1252
		20.20						24.2	1332
		21.50						25.8	1333
		20.65						24.8	1434
		21.50						25.8	1435
		21.00						25.2	1436
		20.00						24.0	
	2.25		29.10	51	49			37.0	303
	2.00		27.00					34.0	
	3.85		21.60	88	12			35.1	304
	3.70		20.00					33.0	
	20.58							72.0	306
	20.50							71.8	
						51.68		62.0	307
						50.00		60.0	
3.12	3.12	8.00				3.84	6.31	32.7	1253
	3.00	8.00				4.00	6.00	32.1	
	2.28		27.00	63	37			35.0	560
	1.65		27.00					32.8	

TABLE I.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
	Virginia-Carolina Chemical Corp., Inc., Cincinnati, O., Mt. Pleasant, Tenn.—Cont.		
308	Mt. Pleasant 4-8-4	Manufacturer	4.02
		Guaranteed	
309	Mt. Pleasant 4-12-8	Manufacturer	4.02
		Guaranteed	
1247	Mt. Pleasant 4-10-6	Jones and Ralph, Hartford	3.63
		Guaranteed	
311	Mt. Pleasant 3-12-4	Manufacturer	3.16
		Guaranteed	
1254	Mt. Pleasant 3-10-3	Jones and Ralph, Hartford	2.84
		Guaranteed	
313	Mt. Pleasant 3-8-10	Manufacturer	3.12
		Guaranteed	
314	Mt. Pleasant 3-8-6	Manufacturer	2.81
		Guaranteed	
315	Mt. Pleasant 2-8-4	Manufacturer	1.83
		Guaranteed	
316	Mt. Pleasant 2-10-4	Manufacturer	1.79
		Guaranteed	
317	Mt. Pleasant 0-10-4	Manufacturer	
		Guaranteed	
1437	Mt. Pleasant 20%	Jones and Ralph, Hartford	
		Guaranteed	

TABLE I.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
4.02	4.02	8.35				4.40		29.4	308
	4.00	8.00				4.00		28.4	
4.02	4.22	12.00				8.20		39.0	309
	4.00	12.00				8.00		38.0	
3.63	3.92	10.60				5.81		33.4	1247
	4.00	10.00				6.00		33.2	
3.16	3.16	12.90				4.23		31.6	311
	3.00	12.00				4.00		29.7	
2.84	3.07	10.90				2.95		27.4	1254
	3.00	10.00				3.00		26.1	
3.12	3.12	8.20				10.97		33.9	313
	3.00	8.00				10.00		32.1	
2.81	3.01	7.85				6.58		27.9	314
	3.00	8.00				6.00		27.3	
1.83	2.06	7.85				4.37		21.9	315
	2.00	8.00				4.00		21.4	
1.79	2.03	10.40				4.17		24.6	316
	2.00	10.00				4.00		23.8	
		10.25				4.50		17.7	317
		10.00				4.00		16.8	
		20.70						24.8	1437
		20.00						24.0	

TABLE II.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Nitrogen %
569	American Agricultural Chem. Co., 0-10-10	Cincinnati, O. Manufacturer	3.77
834	4-8-4	Guaranteed H. W. Noland, Richmond	3.72
1186	Muriate of Potash	Guaranteed I. N. Aldridge, Dixon	
1191	The Armour Fertilizer Works, Big Crop 9-18-18 Fertilizer	Cincinnati, O., Jeffersonville, Ind., Nashville, Tenn. V. B. Nuckols, Elkton	7.72
1192		The T. J. Turley Co., Owensboro Guaranteed	8.07
1281	Buhner Fertilizer Co., †Buhner's 3-8-6	Seymour, Ind. Harris and Beck, Jamestown	2.98
1194	Consolidated Chemical Co., †Camel Brand 3-8-6	Louisville, Ky. Yopp Seed Co., Paducah	3.26
685	†Camel Brand 0-10-0 (With Lime Filler)	Guaranteed C. M. Langdon, Science Hill	
924	The Davison Chemical Corp., Hopkins Fertilizer Div., Hopkins Old Time 3-8-6 (Sulfate)	Guaranteed New Albany, Ind. L. A. Collins, Lebanon	3.41
938	Davison Chemical Corp., Read Phosphate Div., †3-8-6	Guaranteed Nashville, Tenn. B. F. Page, Oakland	2.49
698	†Red Diamond 4-12-8	Guaranteed W. M. Jasper, W. Somerset	3.81
942		Grigsby and Co., Bardstown	4.09
944		Eldred Hardware Co., Princeton	4.50
945		L. F. Thurmond, Murray	4.25
1208	†Red Diamond 5-10-5	Guaranteed Guenther Hardware Co., Owensboro	5.00
699	†20% Superphosphate	Guaranteed W. D. Dickenson, Glasgow	
702	6-8-6	Guaranteed Harrodsburg Motor Co., Harrodsburg	4.72
951		E. A. Cohen, Greenville Guaranteed	4.55
1296	Federal Chemical Co., Inc., †Federal 2-10-4	Louisville, Ky. I. K. Miller and Son, Campbellsville	1.49
1214	Federal 2-12-6	Guaranteed W. A. Robinson, Bremen	1.97
956	Federal 3-8-6 (Sulfate)	Guaranteed Gentry McCauley, Versailles Guaranteed	2.63

TABLE II.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
3.77	3.77	10.20				6.64		33.4	569
		10.00				10.00		24.0	
3.72	3.72	7.60				3.96		26.9	834
	4.00	8.00				4.00		28.4	
						48.96		58.8	1186
						50.00		60.0	
7.72	8.06	17.65				15.88		68.5	1191
8.07	8.48	18.45				16.70		71.9	1192
	9.00	18.00				18.00		74.7	
2.98	3.28	10.35				5.03		29.9	1281
	3.00	8.00				6.00		27.3	
3.26	3.49	11.60				3.35		30.2	1194
	3.00	8.00				6.00		27.3	
		18.90						22.7	685
		20.00						24.0	
3.41	3.74	9.45				1.36	1.45	27.8	924
	3.00	8.00					6.00	27.3	
2.49	2.75	10.30				5.31		28.4	938
	3.00	8.00				6.00		27.3	
3.81	4.06	13.10				6.89		38.2	698
4.09	4.09	11.20				9.49		39.2	942
4.50	4.71	12.65				6.64		39.6	944
4.25	4.66	11.00				7.70		38.8	945
	4.00	12.00				8.00		38.0	
5.00	5.38	8.30				4.46		34.1	1208
	5.00	10.00				5.00		37.0	
		18.95						22.7	699
		20.00						24.0	
4.72	5.77	8.65				5.26		36.9	702
4.55	5.33	8.95				5.96		36.6	951
	6.00	8.00				6.00		37.8	
1.49	1.87	9.70				3.79		22.7	1296
	2.00	10.00				4.00		23.8	
1.97	2.40	13.10				5.13		30.3	1214
	2.00	12.00				6.00		28.6	
2.63	3.14	8.90				0.80	4.20	27.7	956
	3.00	8.00					6.00	27.3	

TABLE II.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water Soluble Nitrogen
958	Federal Chemical Co., Inc., †Federal 3-8-10	Louisville, Ky.—Cont. Morgan and Heath, Benton Guaranteed	4.75
705	Federal 4-12-8	Earl and John Scott, Pikeville	3.77
961		A. B. Beale and Son, Murray	4.75
1217		W. L. Farris, Farmington Guaranteed	3.91
963	†Federal 5-10-5	Hogan, Landrum, Cook Co., Tompkinsville	4.25
965	†Federal 6-8-6	Guaranteed	5.04
968		Fayette Coal and Feed Co., Lexington Morgan and Heath, Benton	4.98
1220	†Daybreak 0-20-0	Guaranteed	
		Wilson Hardware Co., Henderson Guaranteed	
	International Agricultural Corp.,	Cincinnati, O., Wales, Tenn.	
1397	†International 4-16-4	C. L. Jewell and Son, Louisville Guaranteed	3.25
1012	International 4-10-4	Youtsey Bros., Alexandria Guaranteed	1.86
1404	†International 0-20-0	M. C. Raymer, Bowling Green Guaranteed	
	Kentucky Fertilizer Co., Branch Federal Chem. Co., Inc.,	Louisville, Ky.	
719	†O.K. 3-8-6	Jackson Wholesale Co., Jackson Guaranteed	2.59
	Knoxville Fertilizer Co.,	Knoxville, Tenn., Nashville, Tenn.	
1022	Knox 4-8-8	R. W. Scates, Crofton Guaranteed	4.01
1308	†Basic O-Ten-Four	C. M. Langdon, Science Hill Guaranteed	
1036	Amnite	Allison Shipp, Campbellsville	13.56
1236		Vick Smith, Bowling Green Guaranteed	14.24
72	Muriate of Potash	Manufacturer Guaranteed	
	National Chemical Co.,	Louisville, Ky.	
743	†Big Pay 6-8-6	J. W. Leach, Rowletts Guaranteed	4.93
1040	Big Pay 4-12-0	Boyd and Youngman, Shelbyville Guaranteed	3.14
1041	†Big Pay 3-10-3	E. S. Ferrill and Son, Buffalo Guaranteed	1.68
746	†Big Pay 3-8-6	O. E. Shearer, Monticello Guaranteed	2.37
1416	†Big Pay 2-8-4	E. S. Ferrill and Son, Buffalo Guaranteed	1.23

TABLE II.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
4.75	5.10	9.15				3.77		33.4	958
	3.00	8.00				10.00		32.1	
3.77	4.16	11.30				7.37		37.0	705
4.75	5.14	9.05				4.35		34.1	961
3.91	4.35	10.45				7.86		37.2	1217
	4.00	12.00				8.00		38.0	
4.25	4.61	9.80				4.94		33.8	963
	5.00	10.00				5.00		35.5	
5.04	5.46	8.95				5.60		36.6	965
4.98	5.32	8.30				3.74		33.1	968
	6.00	8.00				6.00		37.8	
		19.10						22.9	1220
		20.00						24.0	
3.25	3.66	10.10				5.05		31.0	1397
	4.00	16.00				4.00		38.0	
1.86	2.24	10.90				7.20		29.6	1012
	4.00	10.00				4.00		30.8	
		18.25						21.9	1404
		20.00						24.0	
2.59	2.86	7.10				5.03		24.6	719
	3.00	8.00				6.00		27.3	
4.01	4.27	9.55				7.19		35.0	1022
	4.00	8.00				8.00		33.2	
		15.55				2.62		21.8	1308
		10.00				4.00		16.8	
13.56	13.56							47.5	1036
14.24	14.24							49.8	1236
	15.00							52.5	
						48.08		57.7	72
						50.00		60.0	
4.93	5.24	8.65				6.04		36.0	743
	6.00	8.00				6.00		37.8	
3.14	3.49	11.60						26.1	1040
	4.00	12.00						28.4	
1.68	1.88	12.95				3.72		26.6	1041
	3.00	10.00				3.00		26.1	
2.37	2.65	7.25				7.32		26.8	746
	3.00	8.00				6.00		27.3	
1.23	1.54	8.45				4.06		20.4	1416
	2.00	8.00				4.00		21.4	

TABLE II.

Station Number	Name and Address of Manufacturer and Name of Brand	From Whom Obtained	Water, Nitrogen
1239	National Chemical Co., †Big Pay 0-20-0	Louisville, Ky.—Cont. Hook Milling Co., Hardinsburg Guaranteed	
1049	North American Fertilizer Co., †North American 6-8-6	Inc., Louisville, Ky. R. Sherman Toles, Lexington	5.17
1051		Browning Coal and Feed Co., Winchester Guaranteed	5.11
751	North American 4-12-4	W. W. Owens, Russell Springs..... Guaranteed	3.38
1053	†North American 4-12-0	Browning Coal and Feed Co., Winchester	3.14
1054		Bunton Seed Co., Louisville Guaranteed	3.11
1240	North American 3-8-6 (Sulfate) ..	Garfield Mercantile Co., Garfield Guaranteed	1.64
1063	†North American 2-8-4	Aaron L. Moore, Leitchfield Guaranteed	1.82
759	†North American 0-10-4	W. W. Owens, Russell Springs..... Guaranteed	
1423	North American Raw Bone.....	U. B. Sellers, Louisville Guaranteed	
1084	Price Chemical Co., Inc., 6-8-6	Louisville, Ky. H. W. Noland, Richmond Guaranteed	3.69
136	Swift and Co., Fertilizer Works, Swift's Red Steer 6-12-6 (Sulfate)	National Stock Yards, Ill. Manufacturer Guaranteed	2.59
770	†Swift's Red Steer 4-12-8 (Sulfate)	Beaty Bros., Science Hill Guaranteed	3.47
1110	Tennessee Chemical Co., (Armour Owned) †Ox 4-12-8 Fertilizer	Cincinnati, O., Jeffersonville, Ind., Nashville, Tenn. Sexton Bros., Murray Guaranteed	2.62
1120	Virginia-Carolina Chemical Corp., †V-C 4-12-8	Inc., Cincinnati, O., Mt. Pleasant, Tenn. M. G. Williams, Crofton Guaranteed	3.24
1122	†V-C 4-12-0	John H. Burba Co., Hodgenville	2.81
1123		Rizer Bros., Bardstown Guaranteed	2.96
783	V-C 3-8-6	Polson and Co., Glasgow Guaranteed	2.41

TABLE II.

Water Soluble Nitrogen	Total Nitrogen	Available Phosphoric Acid	Total Phosphoric Acid	Fine Bone	Medium Bone	Potash from Muriate	Potash from Sulfate	Index of Relative Value	Station Number
		18.70 20.00						22.4 24.0	1239
5.17	5.41	8.75				6.08		36.7	1049
Winchester	5.11	5.38	8.00			6.25		35.9	1051
		6.00	8.00			6.00		37.8	
gs.	3.38	3.59	11.30			7.44		35.1	751
Winchester		4.00	12.00			4.00		33.2	
	3.14	3.49	11.70					26.2	1053
	3.11	3.47	11.40					25.8	1054
		4.00	12.00					28.4	
eld	1.64	2.06	8.90			6.93		26.2	1240
		3.00	8.00				6.00	27.3	
	1.82	2.22	7.50			2.41		19.7	1063
		2.00	8.00			4.00		21.4	
gs.			8.90			3.57		15.0	759
		10.00				4.00		16.8	
	2.06		27.80	72	28			35.0	1423
	3.30		20.00					31.6	
	3.69	4.05	12.30			7.90		38.4	1084
		6.00	8.00			6.00		37.8	
	2.59	2.91	13.80			3.52	1.05	32.2	136
		6.00	12.00				6.00	42.6	
	3.47	3.87	12.45			1.28	5.72	36.9	770
		4.00	12.00				8.00	38.0	
, Ind.,									
	2.62	3.00	13.70			6.66		34.9	1110
		4.00	12.00			8.00		38.0	
sant, Tenn	3.24	3.49	12.25			6.84		35.1	1120
		4.00	12.00			8.00		38.0	
ille	2.81	3.07	13.35					26.8	1122
	2.96	3.24	13.35					27.4	1123
		4.00	12.00					28.4	
	2.41	2.41	8.90			5.75		26.0	783
		3.00	8.00			6.00		27.3	