

KENTUCKY

AGRICULTURAL EXPERIMENT STATION

OF THE

State College of Kentucky.

BULLETIN No. 102.

COMMERCIAL FERTILIZERS.

LEXINGTON, KENTUCKY.

September, 1902.

KENTUCKY Agricultural Experiment Station.

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Address of the Station—LEXINGTON, KY.

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ADDRESS:

KENTUCKY AGRICULTURAL EXPERIMENT STATION,
LEXINGTON, KY.

Bulletin No. 102.

Analyses of Commercial Fertilizers.

Number of Brands. There were 310 different brands of commercial fertilizers registered from January 1, to August 20, 1902. Of these different brands, 170 were complete fertilizers, or fertilizers containing all three of the essential ingredients, namely: phosphoric acid, nitrogen and potash; 38 were acid phosphates, or superphosphates; 8 contained a mixture of acid phosphate and nitrogen compounds only; 42 acid phosphate and potash salts only; and 52 were classed as bones or tankage.

Samples Collected and Analyzed. Two hundred and twenty-eight samples were collected by deputy inspectors, or were sent by farmers from various parts of the state; 346 samples were those sent in by firms as official samples; of these samples, 500 were analyzed by the Station.

Results of the Analyses. The results of the analyses show that of the 500 samples analyzed, 55, representing 49 brands and 23 firms, fell so far below the guaranteed analyses in phosphoric acid, nitrogen or potash, or any two, or all three of these ingredients, that the deficiencies could not be

accounted for by variations in sampling or analysis. It is probable that in most cases, variations can be accounted for by hurried or careless mixing at the factories, or gross mistakes in shipping one brand for another, but in one or two instances, the results show a desire on the part of the manufacturer to guarantee a higher percentage of the essential ingredients than the goods contain.

The great majority of the manufacturers, however, have furnished in most instances, fertilizers fully up to guarantee.

The following table gives the names of all manufacturers legally selling fertilizers in the State this year up to August 20, and the number of samples analyzed of each firm's fertilizers taken from various places in the State or furnished by the manufacturers.

The table also shows in how many of these samples there was a serious deficiency of either phosphoric acid, nitrogen or potash, and in how many the percentages of these constituents are such as to be considered acceptable, from the point of view of the buyer, either because they equal or exceed the percentage guaranteed by the manufacturer, or because a slight deficiency in one constituent is, in the Director's judgment, fully made up by an excess in one or both of the others. Under the heading "Relative Value Per Ton," is shown in how many instances the "estimated value per ton" calculated from our analysis, equals or exceeds the value calculated from the manufacturer's minimum guaranteed analysis, and in how many it is too low, reasonable allowance having been made for unavoidable variations. This table should be carefully studied. It concisely reviews each firm, showing how the samples of fertilizers taken from various places in the State compare with what was guaranteed. In order, however, to see the amount of variations from the guaranteed analyses, this table should be studied in connection with the table of results of analyses, which follows this introduction. This table can be easily referred to, as the names of the firms are arranged in alphabetical order.

NAME OF MANUFACTURER.	No. of Samples Analyzed.	Phosphoric Acid.		Nitrogen.		Potash.		Relative Value Per Ton.	
		No. Acceptable.	No. Too Low.	No. Acceptable.	No. Too Low.	No. Acceptable.	No. Too Low.	No. Acceptable.	No. Too Low.
The Abbott & Martin Rendering Co.....	4	4	0	2	0	3	0	4	0
Amer. Ag. Chem. Co., Cleveland Dryer Works	11	11	0	7	0	6	1	11	0
Amer. Ag. Chem. Co.....	2	2	0	2	0	0	0	2	0
The Armour Fertilizer Works.....	22	21	1	14	3	13	2	21	1
Peter Backer & Son	1	1	0	1	0	0	0	1	0
Geo. S. Bartlett.....	4	4	0	3	1	3	1	4	0
Bowker Fertilizer Co	6	6	0	3	0	3	0	6	0
C. S. Brent.....	4	4	0	4	0	1	2	4	0
The Buckeye Phosphate Co.....	10	9	1	6	0	5	1	10	0
The Cincinnati Phosphate Co.....	6	6	0	3	0	2	1	6	0
Continental Fertilizer Co	22	22	0	15	0	16	0	22	0
The Currie Fertilizer Co.....	18	13	5	15	0	13	0	15	3

NAME OF MANUFACTURER.	No. of Samples Analyzed.	Phosphoric Acid.		Nitrogen.		Potash.		Relative Value Per Ton.	
		No. Acceptable.	No. Too Low.	No. Acceptable.	No. Too Low.	No. Acceptable.	No. Too Low.	No. Acceptable.	No. Too Low.
Duncan & Bro.....	9	9	0	9	0	5	1	9	0
The Empire Guano Co.....	13	13	0	8	0	9	2	13	0
Fox Chemical Co.....	23	23	0	14	0	12	3	23	0
Furman Farm Improvement Co.....	4	4	0	3	0	4	0	4	0
Globe Fertilizer Co.....	30	30	0	24	1	19	4	30	0
The Hardy Packing Co.....	12	12	0	10	0	9	0	12	0
The Jarecki Chemical Co.....	16	15	1	10	0	10	1	15	1
J. B. Jones.....	6	2	4	6	0	4	0	5	1
The Jones Fertilizing Co.....	14	14	0	11	0	8	0	14	0
Kaufman Fertilizer Co.....	5	3	2	4	0	4	0	5	0
Louisville Fertilizer Co.....	25	25	0	18	0	17	0	25	0
P. B. Mathiason Mfg. Co.....	3	3	0	3	0	3	0	3	0

C. N. Meriwether	2	2	0	2	0	0	2	0	0	0	2	0
Michigan Carbon Works	16	15	1	13	0	11	0	16	0	0	16	0
Nelson Morris & Co.	9	8	1	8	0	5	0	9	0	0	9	0
National Fertilizer Co.	18	17	1	10	0	11	5	18	0	0	18	0
North-Western Fertilizing Co.	23	19	4	19	0	15	1	23	0	0	23	0
The Ohio Farmers Fertilizer Co.	13	13	0	11	0	10	0	13	0	0	13	0
Packers Fertilizer Association	14	14	0	9	0	11	0	14	0	0	14	0
Queen City Fertilizer Co.	4	4	0	4	0	3	1	4	0	0	4	0
Read Phosphate Co.	14	13	1	8	1	11	1	14	0	0	14	0
Ruhl & Pero	2	2	0	2	0	0	0	2	0	0	2	0
Standard Guano & Chemical Manufacturing Co.	1	1	0	1	0	0	0	1	0	0	1	0
Swift & Co.	26	26	0	21	1	17	0	25	1	0	25	1
Tennessee Chemical Co.	24	24	0	17	0	16	2	24	0	0	24	0
Virginia-Carolina Chemical Co., S. W. Travers & Co., Branch	10	10	0	6	0	7	1	10	0	0	10	0
Virginia-Carolina Chemical Co., Memphis Division	4	4	0	3	0	4	0	4	0	0	4	0
Wake Fertilizer Co.	3	3	0	3	0	3	0	3	0	0	3	0
Wood, Stubbs & Co.	6	6	0	5	0	6	0	6	0	0	6	0

It is evident from the preceding table that while most of the fertilizers examined ran above the minimum guarantee, yet a thorough and careful inspection seems essential. It is hoped that farmers will generally take advantage of Section 8 of the fertilizer law, and when they purchase fertilizers, at least in quantity, that they will take a sample in accordance with Section 8 and send it to the Station for free analysis.

Essentials in Taking a Sample. 1. Take it at the time of purchase, and if possible in the presence of agent or seller. 2. Take a sample from not less than two bags, and from one additional bag for every ten purchased; mix these samples carefully and take at least a pint of this mixed sample, put it into a fruit jar, seal, box and express to M. A. Scovell, Director, Lexington, Ky. 3. Take the sample in the presence of at least one witness, and have the witness sign the required certificate. 4. The certificate for free analysis to be sent *by mail* and should be in accordance with the law as given in Section 8.

If the sample is taken in accordance with the above directions it may be sent by express and the charges will be paid by the Station.

Form of Certificate. A good form of certificate is the following, and blank certificates will be sent free to any farmer requesting the same.

CERTIFICATE FOR FREE ANALYSIS.

..... 190
M. A. SCOVELL, Director, Lexington, Ky.:

This is to certify that I am not a dealer in, or agent for the sale of any fertilizer, and that the fertilizer, a sample of which I have sent by express to you for free analysis was purchased by me 190.. for my own use and not for sale.

I further certify that the sample was taken at the time of purchase from at least 10 per cent. of the sacks or other packages comprising the whole lot purchased, and that it was taken as provided in Section 8 of the fertilizer law, in the

following described manner, to wit :
.....
.....
.....

Upon receipt of the analysis from you, I agree to furnish you with a tag taken from one of the sacks sampled, the name and address of the firm or agent of whom the fertilizer was purchased, and the amount purchased.

(Signature)

(P. O. Address)

Signature of Witnesses :
.....
.....

Should, however, any farmer desire to take a sample and not have a blank certificate at hand, he may write one in full like the form above given, or take the sample in presence of seller and witness and so mark it that he can identify it subsequently in a certificate, and send it at once to the Experiment Station with the request that the station furnish form of certificate, such certificate to be filled out upon receipt covering the sample and properly signed by sender and witnesses and sent by return mail to the Station.

Section Providing for Free Analysis. The section of the Fertilizer Law, providing for the taking of samples for free analysis is as follows:

SEC. 8. Any person not a dealer in, or agent for the sale of any fertilizer who may purchase any commercial fertilizer in this State for his own use and not for sale, may take a sample of the same for analysis, which analysis shall be made by the said Experiment Station free of charge. Such sample for free analysis shall be taken by the purchaser in presence of the person, company or agent selling the fertilizer from at least ten (10) per cent. of the sacks or other packages comprising the whole lot purchased, and shall be thoroughly mixed and at least one pound of the material after mixing must be put into a jar or can, securely sealed and marked in such a way as to surely identify the sample and show by whom it was sent, without giving the name of the fertilizer or the person from whom it was purchased, and must be forwarded to the Director of the Kentucky Agricultural Experiment Station, Lexington,

Ky. The purchaser shall also send with the sample a certificate signed by himself and witness, or by two witnesses, stating that the sender has purchased the fertilizer for his own use and not for sale, and that the sample was taken in the manner prescribed in this section. Provided, however, that if the person, company or agent shall refuse to witness the taking of the sample, then the sample may be taken at the time of the purchase in the manner already described in the presence of two witnesses who shall certify to the manner of taking the sample. The purchaser shall preserve the official label from one of the bags or other packages sampled to be sent to the Director after having received the report of analysis of the sample, and at the same time he shall furnish to the Director the name and address of the firm of whom the fertilizer was purchased and the amount purchased; and any person having sent a sample for free analysis, under the provisions of this section, who shall, after having received the report of analysis of the same, refuse to furnish the required information, shall thereafter forfeit the privilege of free analysis of fertilizers under this section. But if any sample shall have been submitted for free analysis without all the requirements of this section having been complied with, the Director shall inquire into the case and may accept the sample for free analysis if he believes that it is a fair sample of the fertilizer as it was delivered to the purchaser.

Values Used.—In calculating the relative value per ton, the following values have been used:

Soluble and reverted phosphoric acid in mixed fertilizers.....	6c per lb.
Soluble and reverted phosphoric acid in plain acid and unacidulated phosphates.....	5c per lb.
Insoluble phosphoric acid in mixed fertilizers.....	2c per lb.
Insoluble phosphoric acid in plain acid phosphates.....	Nothing.
Phosphoric acid in fine bone.....	4c per lb.
Phosphoric acid in medium bone.....	3c per lb.
Fine bone is all that passes through a sieve with meshes one-twenty-fifth inch square. Medium bone passes through a sieve with meshes one-sixth inch square, but does not include fine bone.	
Nitrogen in all fertilizers.....	15c per lb.
Potash in all fertilizers, from sulphate.....	6c per lb.
Potash in all fertilizers, from muriate.....	5c per lb.

The term "Potash from muriate" does not indicate necessarily that the manufacturers used muriate of potash in fur-

nishing the potash; they may have used sulphate of potash, or other salts of potash, but in all fertilizers where the term "Potash from muriate" is used there is enough chlorine present to combine with the potash, either from salt in the tankage used, or the potash salts used, as muriate, kainit, carnallite, etc. As the objection to the use of muriate of potash arises from the chlorine present in this salt, it likewise follows that chlorine in a fertilizer is objectionable, whether put in with the potash or otherwise. The using of sulphate of potash where there is chlorine present in other ingredients of the fertilizer will not obviate the injurious effect of the chlorine, and therefore we take this method of showing chlorine present by designating the potash as "from muriate."

Explanation of the Table. In the table of analyses, following the name of each brand will be found the analysis of the sample furnished by the manufacturer at the time the fertilizer was entered for sale and which was accompanied by an affidavit giving the guaranteed analysis. This is the analysis that is marked "manufacturer" in the column headed "From Whom Obtained." If any other analyses of the same brand have been made, they will be found following this analysis. These samples have been collected by deputy inspectors or sent in by farmers. The manufacturer's guarantee is printed last in *italic* figures.

The figures in the table which are set in bold face type are those results which, in the judgment of the Director, were too low to be acceptable. Where the total phosphoric acid in samples of bone is marked with (*) it indicates that the bone contains soluble phosphoric acid. This soluble phosphoric acid is an indication of either the addition of acid phosphate to the bone, in which case it would not be a pure raw bone, or else that the bone containing this soluble phosphoric acid was not strictly a pure or high grade bone, but contained trashy materials, which carried with them the soluble phosphoric acid.

The names of the manufacturers are arranged in alphabetical order, and all the analyses of the same brand have been grouped together.

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
9485	The Abbott & Martin Rendering Co., Columbus, O. Standard Phosphate.....	Manufacturer
9486	Star Phosphate	Manufacturer
9487	Ideal Grain Grower	Manufacturer
9488	Harvest King.....	Manufacturer
	A. D. Adair & McCarty Bros., Atlanta, Ga. Amer. Ag. Chem. Co., New York, N. Y., Clev. Dryer Wks.	See Furman Farm Improvement Co.
9502	Horsehead Phosphate	Manufacturer
9844		W. B. Morgan, Bedford.....
9503	Ohio Seed Maker	Manufacturer
9504	Ohio Seed Maker with Potash..	Manufacturer
9845		Elvis Austin, Beaver Dam
9505	XXX Phosphate.....	Manufacturer
9846		Elvis Austin, Beaver Dam
9506	Tobacco, Potato & General Crop Fertilizer	Manufacturer
9847		R. W. Newman, Lewisburg.....
9507	Phospho Bone	Manufacturer
9848		R. W. Newman, Lewisburg.....
	American Agr'l Chem. Co., New York.	
9508	Ground Bone	Manufacturer
9849		J. H. & M. F. Winfree, Hopkinsville

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED												Relative Value Per Ton.	Station Number.
Phosphoric Acid							Nitrogen.	Equivalent to Ammonia.	Potash.				
In Fine Bone.	In Medium Bone.	Soluble.	Reverted.	Available.	Insoluble.	Total.			From Muriate.	From Sulphate.			
				9.76	8.66	18.42						\$9.76	9485
		6.00	3.00	9.00		10.00						9.00	
				10.53	1.38	11.91			1.10	1.77		16.41	9486
		5.00	3.00	8.00		9.00			2.00			12.00	
				7.19	2.06	9.25	1.07	1.30	1.23			13.89	9487
		4.00	3.00	7.00		8.00	0.82	1.00	1.00			12.26	
				10.44	1.16	11.60	1.39	1.69	1.82			18.98	9488
		5.00	3.00	8.00		9.00	1.23	1.50	2.00			15.69	
				11.45	0.26	11.71						11.45	9502
				12.26	1.13	13.39						12.26	9844
		8.00	2.00	10.00		12.00						10.00	
				10.72	1.46	12.18	1.90	2.31				19.14	9503
		7.00	3.00	10.00		12.00	1.65	2.00				17.75	
				8.84	1.79	10.63	1.81	2.20	2.30			19.06	9504
				9.20	1.94	11.14	1.65	2.00	2.01			18.78	9845
		5.00	3.00	8.00		10.00	1.65	2.00	2.00			17.35	
				16.17	0.23	16.40						16.17	9505
				13.92	0.33	14.25						13.92	9846
		12.00	2.00	14.00		16.00						14.00	
				8.76	1.13	9.89	1.11	1.35	4.41			18.70	9506
				9.08	1.37	10.45	0.99	1.20	3.51			17.93	9847
		5.00	3.00	8.00		10.00	0.82	1.00	4.00			16.86	
				12.04	1.11	13.15	1.01	1.23	0.55			18.47	9507
				10.71	2.20	12.91	1.34	1.63	1.22			18.97	9848
		7.00	3.00	10.00		12.00	0.82	1.00	1.00			16.26	
14.53	6.83					21.36	2.72	3.30				23.88	9508
17.08	5.69					22.77	2.31	2.80				24.00	9849
						20.00	2.47	3.00				19.41	

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
	The Armour Fertilizer Works, Chicago, Ill.	
9362 9850	Bone Meal.....	Manufacturer Dunagan & Kirtley, Horse Cave
9363 9851	Raw Bone Meal.....	Manufacturer Ross & Duncan, Beard
9364 9852	Grain Grower	Manufacturer Henry E. Lewis, Hodgenville..
9365 9853 9876	Bone, Blood & Potash.....	Manufacturer T. J. Turley & Co., Owensboro Jas. Pollard, Mt. Carmel.....
9366 9854	White Burley & Black Tobacco..	Manufacturer Jno. T. Hopkins, Jr., Henderson
9367 9855	Wheat, Corn & Oats Special....	Manufacturer Wesley & Singleton, Eubanks
9368 9856	Tobacco Grower	Manufacturer Dunagan & Kirtley, Horse Cave
9369 9857	Ammoniated Bone with Potash..	Manufacturer T. J. Turley & Co., Owensboro
9370	Star Phosphate.....	Manufacturer
9371 9858	Phosphate & Potash	Manufacturer Turley & Co., Hartford.....
9372 9859	Cereal Phosphate	Manufacturer Christmas & Cary, Glasgow ...

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.													
In Fine Bone.	In Medium Bone.	Phosphoric Acid.					Total.	Nitrogen.	Equivalent to Ammonia.	Potash.		Relative Value per Ton.	Station Number.
		Soluble.	Reverted.	Available.	Insoluble.	From Muriate.				From Sulphate.			
21.01	3.42					24.43	2.55	3.10				\$26.51	9362
21.80	3.25					25.05	2.65	3.22				27.34	9850
						24.00	2.47	3.00				21.81	
11.96	14.62					26.58	3.60	4.37				29.14	9363
20.54	4.82					25.36	3.71	4.50				30.45	9851
						22.00	3.71	4.50				24.33	
				8.38	0.41	8.79	1.94	2.36	2.36			18.40	9364
				8.99	1.01	10.00	1.39	1.69	1.97			17.33	9852
		6.00	2.00	8.00		10.00	1.65	2.00	2.00			17.35	
				9.14	1.16	10.30	3.85	4.67	1.18	5.55		30.82	9365
				14.11	0.68	14.79	3.10	3.76		2.97		30.06	9853
				11.11	1.38	12.49	3.51	4.26	1.54	5.40		32.43	9876
		6.00	2.00	8.00		10.00	4.12	5.00		7.00		31.16	
				8.59	1.64	10.23	2.69	3.27	1.48	3.21		24.37	9366
				7.31	4.49	11.80	2.98	3.62	3.42			22.93	9854
		6.00	2.00	8.00		10.00	2.88	3.50		4.00		23.84	
				7.61	0.31	7.92	0.96	1.17	1.35			13.48	9367
				7.54	0.78	8.32	0.79	0.96	1.20			12.93	9855
		5.00	2.00	7.00		9.00	0.82	1.00	1.00			12.66	
				8.42	0.36	8.78	1.56	1.89	1.50	3.44		20.55	9368
				8.93	0.60	9.53	1.65	2.00	4.92			20.83	9856
		6.00	2.00	8.00		10.00	1.65	2.00		5.00		21.35	
				6.92	0.64	7.56	2.69	3.27	1.78	0.87		19.45	9369
				9.66	1.02	10.68	1.99	2.42	2.66			20.63	9857
		4.00	2.00	6.00		8.00	2.47	3.00		2.00		17.81	
				16.31	0.40	16.71						16.31	9370
		10.00	4.00	14.00		16.00						14.00	
				10.60	0.27	10.87				1.68	0.44	15.04	9371
				10.21	0.17	10.38				1.74		14.06	9858
		6.00	4.00	10.00						2.00		14.00	
				10.05	0.38	10.43						10.05	9372
				12.00	4.81	16.81						12.00	9859
		6.00	4.00	10.00		12.00						10.00	

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
10058	Peter Backer & Son, Troy, Ind. Grower No. 9, Pure Raw Bone..	Manufacturer
9743	Geo. S. Bartlett, successor to Cin. Dis. Co., Cin., O. Indian Brand Tob. & Potato Fert	Manufacturer
9744 9863	Indian Brand Gilead Phosphate	Manufacturer Grant McDaniel, Vanceburg ...
9745	Indian Brand Ohio Valley Phos	Manufacturer
9433	Bowker Fertilizer Co., Boston, New York, Cincinnati. Bowker's Fish Guano	Manufacturer
9434	Bowker's Harvest Bone	Manufacturer
9435	Bowker's Dis. Bone Phosphate..	Manufacturer
9436	Bowker's Dissolved Bone Phos- phate with Potash.	Manufacturer
9437	Bowker's Soluble Bone	Manufacturer
9438	Bowker's Bone Meal	Manufacturer
9779 10005	C. S. Brent, Lexington, Ky. Brent's Tob. & Hemp Special ..	Manufacturer D. J. & A. G. Prewit, Thomson
9780	Brent's Raw Bone Meal	Manufacturer
9781	Brent's Grain Grower.....	Manufacturer

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.												
Phosphoric Acid.							Nitrogen.	Equivalent to Ammonia.	Potash.		Relative Value per Ton.	Station Number.
In Fine Bone.	In Medium Bone.	Soluble.	Reverted.	Available.	Insoluble.	Total.			From Muriate.	From Sulphate.		
10.38	13.77					24.15 23.00	4.21 3.00	5.11 3.64			\$29.19 22.80	10058
				9.03 9.00	1.68 12.00	10.76 2.47	2.64 3.00	3.20 3.00		4.81 5.00	25.26 25.41	9743
				9.68 10.73 9.00	1.73 2.29 12.00	11.41 13.02 2.47	2.74 2.09 2.47	3.33 2.54 3.00	1.54 2.00	2.18	23.15 21.61 21.41	9744 9863
				8.32 8.00	1.75 11.00	10.07 1.65	1.99 2.00	2.42 2.00		1.81	18.82 17.75	9745
				8.37 8.00	2.02 9.00	10.39 0.75	0.86 0.91	1.04 3.22	3.22 3.00		16.65 15.25	9433
				7.81 8.00	1.00 10.00	8.81 0.75	0.84 0.91	1.02 1.00	1.30 1.00		13.59 13.65	9434
				10.59 10.00	2.98 11.00	13.57 11.00					10.59 10.00	9435
				9.90 10.00	2.62 11.00	12.52 11.00			1.27 1.00		14.20 13.40	9436
				14.29 14.00	3.34 15.00	17.63 15.00					14.29 14.00	9437
16.85	4.21					21.06 20.00	1.87 1.50	2.27 1.82			21.62 16.50	9438
				6.81 6.60 5.00	1.79 2.09	8.60 8.69	3.86 4.25 4.00	4.69 5.16 4.86	2.60 2.46	5.29 4.53 10.00	29.42 29.41 30.00	9779 10005
20.04	4.70					24.74 22.00	3.74 3.71	4.54 4.50			30.07 24.33	9780
				10.27 8.00	2.34 10.00	12.61 1.65	1.82 2.00	2.21 2.00	1.94 2.00		20.66 17.35	9781

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
	The Buckeye Phosphate Co., Columbus, O.	
9442	Buckeye Special Blood & Pot ash Mixture	Manufacturer
9364		A. C. Broad, Milton
9443	Buckeye Wheat Maker.....	Manufacturer
9865		A. C. Broad, Milton
9444	Buckeye Bone Meal.....	Manufacturer
9866		Henry Dutchkey, Stephensport
9445	Buckeye Extra Superphosphate	Manufacturer
9867		A. C. Broad, Milton
9615	Complete Fertilizer	Manufacturer
9868		A. C. Broad, Milton
	The Cincinnati Phosphate Co., Cincinnati, O.	
9458	Capital Wheat Grower	Manufacturer
9459	Capital Grain and Grass Grower	Manufacturer
9460	Capital Dissolved Bone and Pot-ash	Manufacturer
9461	Capital Superphosphate	Manufacturer
9462	Capital Ground Bone.....	Manufacturer
9463	Capital Tobacco Food.....	Manufacturer

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.													
In Fine Bone.	In Medium Bone.	Phosphoric Acid.					Nitrogen.	Equivalent to Ammonia.	Potash.		Relative Value Per Ton.	Station Number.	
		Soluble.	Reverted.	Available.	Insoluble.	Total.			From Muriate.	From Sulphate.			
				8.28	1.37	9.65	1.12	1.36			4.44	\$19.18	9442
				9.59	1.48	11.07	0.84	1.02	4.36			18.98	9864
				8.00			0.82	1.00			4.00	16.86	
				10.13	1.68	11.81					2.82	16.21	9443
				8.96	2.58	11.54			2.35			14.13	9865
				10.00							2.00	14.40	
18.52	5.53					24.05	3.88	4.71				29.78	9444
20.71	3.65					24.36	3.31	4.02				28.69	9866
						20.00	1.65	2.00				16.95	
				14.34	2.67	17.01						14.34	9445
				16.25	0.97	17.22						16.25	9867
				14.00								14.00	
				10.67	2.11	12.78	1.32	1.60	3.66			21.26	9615
				10.23	1.54	11.77	0.83	1.01	1.91			17.30	9868
				8.00			0.41	0.50			2.50	13.83	
				14.43	1.98	16.41						14.43	9458
				14.00		15.00						14.00	
				10.08	1.64	11.72	0.82	1.00			1.33	16.82	9459
				10.00		11.00	0.82	1.00	1.00			15.86	
				11.96	1.88	13.84					2.43	18.02	9460
				12.00		13.00			3.00			17.80	
				13.04	2.07	15.11						13.04	9461
				12.00		13.00						12.00	
20.40	7.54					27.94	2.30	2.79				27.74	9462
						20.00	2.47	3.00				19.41	
				8.11	1.38	9.49	0.86	1.04			3.56	17.13	9463
				8.00		9.00	0.82	1.00			4.00	17.26	

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
	Cleveland Dryer Works (see Continental Fertilizer Co, Nashville, Tenn.)	Amer. Ag. Chem. Co.)
9204	Bear Special Tobacco Grower...	Manufacturer
9773		Geo. L. Dobyns, Mt. Gilead.....
9205	Bear Special Corn Grower.....	Manufacturer
9877		J. M. Gray, Tolesboro
9206	Bear High Grade Tobacco & Potato Grower	Manufacturer
9878		J. M. Cary, Greenville.....
9207	Bear Ammoniated Phosphate ...	Manufacturer
9879		J. V. Fentress, Caneyville.....
9208	Bear Special Dissolved Bone.....	Manufacturer
9880		Depp & Holman, Glasgow
9209	Bear Beef, Blood & Bone.....	Manufacturer
9881		J. V. Fentress, Caneyville.....
9210	Bear Tobacco Grower	Manufacturer
9882		Winter & Everett, Maysville ...
9211	Bear Phosphate	Manufacturer
9212	Bear Potash Mixture	Manufacturer
9213	Bear Corn & Wheat Special.....	Manufacturer
9883		J. W. Kelly, Leitchfield.....
9214	Bear High Grade Dis. Bone.....	Manufacturer
9337	Bear Bone Meal.....	Manufacturer

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.												
In Fine Bone.	In Medium Bone.	Phosphoric Acid.					Nitrogen.	Equivalent to Ammonia.	Potash.		Relative Value per Ton.	Station Number.
		Soluble.	Reverted.	Available.	Insoluble.	Total.			From Muriate.	From Sulphate.		
				9.37	0.70	10.07	1.07	1.30	0.64	1.01	\$16.58	9204
				8.00	1.24	9.24	1.10	1.34		1.70	15.44	9773
		5.00	3.00	8.00		9.00	0.82	1.00		1.50	14.26	
				9.02	0.70	9.72	0.69	0.84		1.52	14.99	9205
				10.00	0.55	10.55	0.46	0.56		1.23	15.08	9877
		5.00	3.00	8.00		9.00	0.41	0.50		1.50	13.03	
				8.79	1.00	9.79	1.72	2.09	1.24	3.33	21.35	9206
				8.79	1.55	10.34	1.39	1.69		3.55	19.60	9878
		4.00	3.00	7.00		8.00	1.65	2.00		4.00	18.55	
				8.62	1.05	9.67	0.65	0.79			12.71	9207
				10.06	1.04	11.10	0.42	0.51			13.75	9879
		5.00	3.00	8.00		9.00	0.41	0.50			11.23	
				8.23	0.83	9.06				1.22	11.67	9208
				7.72	1.04	8.76	0.45	0.55		1.05	12.29	9880
		4.00	3.00	7.00		8.00				1.00	10.00	
				11.10	2.00	13.10	1.79	2.17		3.32	23.47	9209
				10.67	1.78	12.45	2.00	2.43		2.17	22.11	9881
		6.00	4.00	10.00		11.00	1.65	2.00		2.00	19.75	
				8.84	0.88	9.72	2.71	3.29	1.00	5.20	26.33	9210
				8.36	2.12	10.48	2.37	2.88		6.39	25.66	9882
		5.00	3.00	8.00		9.00	2.47	3.00		6.00	24.61	
				12.34	1.45	13.79					12.34	9211
		7.00	5.00	12.00		13.00					12.00	
				11.21	0.64	11.85				2.72	16.97	9212
		6.00	4.00	10.00		11.00				2.00	14.80	
				10.23	0.75	10.98				0.77	13.50	9213
				10.47	1.30	11.77	0.36	0.44		0.69	14.99	9883
		6.00	4.00	10.00		11.00				0.50	13.00	
				15.91	1.25	17.16					15.91	9214
		8.00	6.00	14.00		15.00					14.00	
22.16	1.17					23.33	0.59	0.72			20.20	9337
						20.00	0.82	1.00			14.46	

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
	Continental Fertilizer Co.	
9338	Bear Raw Bone.....	Manufacturer
9973	Bear Special Wheat Grower	Manufacturer
	The Currie Fertilizer Co., Louisville, Ky.	
9511	Currie's Acid Phosphate.....	Manufacturer
9895		W. H. Lillard, Danville.....
9512	Currie's Alkaline Bone.....	Manufacturer
9513	Currie's Corn & Wheat Special..	Manufacturer
9896		C. W. Quiggins, Elizabethtown
9514	Currie's Soluble Bone	Manufacturer
9897		Wm. Leming, Hodgenville.....
9515	Currie's Corn Grower	Manufacturer
9516	Currie's Climax Tobacco & Potato Grower.....	Manufacturer
9517	Currie's Golden Leaf Tobacco	
9898	& Potato Grower.....	Manufacturer
		Wm. Leming, Hodgenville.....
9518	Currie's Tob. & Potato Grower..	Manufacturer
9519	Currie's Dissolved Bone	Manufacturer
9949	Currie's Raw Bone Meal.	Manufacturer
9974		Kirkpatrick & Bros., Greenville
9950	Currie's Fine Ground Raw Bone Meal.....	Manufacturer

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.												
Phosphoric Acid.							Nitrogen.	Equivalent to Ammonia.	Potash		Relative Value per Ton.	Station Number.
In Fine Bone.	In Medium Bone.	Soluble.	Reverted.	Available.	Insoluble	Total.			From Muriate.	From Sulphate.		
22.70	4.01					26.71	2.43	2.95			\$27.86	9338
						20.00	2.47	3.00			19.41	
		4.00	3.00	8.03	0.87	8.90	0.96	1.17		1.42	14.57	9973
				7.00		8.00	0.82	1.00	1.00		12.26	
				14.62	3.21	17.83					14.62	9511
				11.82	3.53	15.35					11.82	9895
				13.50							13.50	
				9.97	3.88	13.85				2.15	16.09	9512
				10.00		11.00				2.00	14.80	
				8.62	3.83	12.45	1.00	1.21	1.69		16.56	9513
				9.94	3.80	13.74	0.93	1.13	1.02		17.26	9896
				10.00		12.50	0.82	1.00		1.00	16.66	
				7.73	6.19	13.92	0.80	0.97	1.88		16.04	9514
				9.89	3.31	13.20	1.05	1.27	1.45		17.79	9897
				10.00		12.00	1.03	1.25		1.50	17.69	
				8.35	6.08	14.43	0.84	1.02	1.89		16.86	9515
				10.00		12.50	1.03	1.25		1.50	17.89	
				8.27	6.05	14.32	0.80	0.97	1.84		16.58	9516
				9.50		12.00	1.03	1.25		1.50	17.29	
				9.11	4.23	13.34	1.94	2.36	3.89		22.33	9517
				9.40	5.59	14.99	1.55	1.88	3.98		22.15	9898
				8.00		9.50	1.65	2.00		3.50	19.35	
				8.68	2.49	11.17	1.60	1.94	4.36	4.86	26.41	9518
				7.00		9.00	1.65	2.00		8.00	23.75	
				8.51	5.22	13.73	2.03	2.46	2.36		20.75	9519
				8.00		10.00	1.65	2.00		2.00	17.75	
8.53	13.91					22.44	3.93	4.77			26.96	9949
10.87	11.31					22.18	3.90	4.73			27.19	9974
						19.00	3.09	3.75			20.67	
11.28	6.35					*17.63	1.89	2.29			18.50	9950
						15.00	1.65	2.00			13.95	

* Contains Soluble Phosphoric Acid.

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
	The Currie Fertilizer Co.	
9951	Currie's Butchertown Raw Bone Meal	Manufacturer
9952	Currie's Wheat Grower.....	Manufacturer
	Duncan & Bro., Lagrange, Ky.	
9610	Tiger Corn and Wheat Special..	Manufacturer
9899		Mfrs. Warehouse.....
9611	Tiger Corn and Wheat Grower..	Manufacturer
9612	Tiger Tobacco & Potato Grower	Manufacturer ..
9900		Mfrs. Warehouse.....
9613	Tiger Bone Meal.....	Manufacturer
9901		Mfrs. Warehouse.....
10138	Tiger Guano	Manufacturer
10139	Tiger Raw Bone Meal.....	Manufacturer
	The Empire Guano Co., Nashville, Tenn.	
9320	Empire High Grade Tobacco Grower	Manufacturer
9904		Choat & Webb, Guthrie
9321	Empire Favorite	Manufacturer
9905		Durham, Blakeman & Cantrell, Greensburg
9322	Empire Wheat Grower	Manufacturer
9323	Empire Wheat & Corn Grower..	Manufacturer

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.												Relative Value Per Ton.	Station Number.
Phosphoric Acid.						Nitrogen.	Equivalent to Ammonia.	Potash.					
In Fine Bone.	In Medium Bone.	Soluble.	Reverted.	Available.	Insoluble.			Total.	From Muriate.	From Sulphate.			
12.35	5.30					*17.65 15.00	1.71 1.65	2.08 2.00	1.40 0.75			19.59 14.70	9951
				10.37 10.00	4.70	15.07 12.50	0.90 1.03	1.09 1.25	1.60 1.50			18.62 17.59	9952
				7.72 9.30 7.00	4.48 4.75	12.20 14.05 12.00	1.35 1.30 0.82	1.64 1.58 1.00		1.36 0.61		16.73 18.33 14.36	9610 9899
		5.00	2.00										
				10.70 10.00	1.24	11.94 11.00	0.86 0.82	1.04 1.00		1.67		17.92 16.86	9611
				8.36 7.77 7.00	1.06 1.98	9.42 9.75 8.00	1.81 1.65 1.65	2.20 2.00 2.00	1.04 0.76	3.38 2.58 4.00		20.98 18.92 18.55	9612 9900
		4.00	3.00										
19.03	4.76					23.79	2.96	3.59				26.96	9613
25.16	3.11					28.27	2.15	2.61				28.45	9901
						22.00	2.47	3.00				20.61	
				10.80 10.00	1.87	12.67 11.00	1.76 1.65	2.14 2.00		3.09		22.70 19.35	10138
		6.00	4.00										
14.69	9.00					23.69	3.44	4.18				27.47	10139
						22.00	3.71	4.50				24.33	
				8.50 8.79 8.00	1.18 1.00	9.68 9.79	1.79 1.87 1.65	2.17 2.27 2.00	1.16	7.22 6.63 8.00		25.86 24.52 24.15	9320 9904
				11.34	2.89	14.23	1.01	1.23	3.37			21.17	9321
				13.45 10.00	1.06	14.51	0.62 0.82	0.75 1.00	2.03 3.00			20.45 17.46	9905
				7.98 8.00	4.81	12.79	1.71 1.65	2.08 2.00	2.48 2.00			19.11 16.55	9322
				11.12 10.00	2.98	14.10	0.96 0.82	1.17 1.00	1.29 1.00			18.70 15.46	9323

*Contains Soluble Phosphoric Acid.

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
	The Empire Guano Co.	
9324 9906	Empire Tobacco Grower	Manufacturer Durham, Blakeman & Cantrell, Greensburg
9325 9907	Empire Bone and Potash	Manufacturer Durham, Blakeman & Cantrell, Greensburg
9326	Empire Potash Mixture	Manufacturer
9327 9903	Empire Acid Phosphate.....	Manufacturer Wesley & Singleton, Eubanks.
	Fox Chemica Co., Branch, Federal Chem. Co., Louisville, Ky.	
9419 9912	Fox Special Tobacco Grower ...	Manufacturer Adams & McChord, Winch'st'r
9420 9913	Fox Tobacco Grower.....	Manufacturer Gus Gibson & Son, Cloverport.
9421	Fox Wheat and Corn Grower ...	Manufacturer
9422	Fox Grain Grower	Manufacturer
9423 9914	Fox Bone and Blood	Manufacturer Gus Gibson & Son, Cloverport.
9424 9915	Fox Alkaline Bone.....	Manufacturer Adams & McChord, Winch'st'r
9425 9916	Fox Bone and Potash	Manufacturer Dickey & Co , Glasgow.....
9426 9917	Fox A. A. Acid Phosphate..	Manufacturer J. M. Whitworth, Caneyville...

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
	Fox Chemical Co.	
9427 9918	Fox Formula	Manufacturer J. M. Whitworth, Caneyville..
9428 9919	Fox Grain Special.....	Manufacturer Elvis Austin, Beaver Dam.....
9598	Fox Phosphate of Potash.....	Manufacturer
9599 9920	Fox Acid Phosphate	Manufacturer Elvis Austin, Beaver Dam.....
9762	Fox Ground Bone	Manufacturer
9774	Fox Raw Bone.....	Manufacturer
	Furman Farm Improvement Co., Atlanta Ga.	
9343	Furman High Grade Fertilizer..	Manufacturer
9344	Buffalo Bone Fertilizer.....	Manufacturer
9345	Furman Soluble Bone ..	Manufacturer
9346	Farish Furman Formula	Manufacturer
	Globe Fertilizer Co., Branch, Federal Chemical Co., Louisville Ky.	
9408 9922	Globe Special Tobacco Grower..	Manufacturer W. B. Brewer, Fairview.....
9409	Globe Potato Grower	Manufacturer
9410 9923	Ky. Standard Tobacco Grower..	Manufacturer Bassett & Stone, Leitchfield.....

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.												
In Fine Bone.	In Medium Bone.	Phosphoric Acid.					Nitrogen.	Equivalent to Ammonia.	Potash.		Relative Value per Ton.	Station Number.
		Soluble.	Reverted.	Available.	Insoluble.	Total.			From Muriate.	From Sulphate.		
				12.40	0.74	13.14	1.18	1.43		3.28	\$22.66	9427
				12.40	1.97	14.37	1.22	1.48		2.87	22.77	9918
				11.00			0.82	1.00		3.00	19.26	
				10.68	0.45	11.13	0.54	0.66		1.15	16.00	9428
				9.16	1.15	10.31	0.77	0.93		1.52	15.58	9919
				9.00			0.41	0.50		1.50	13.83	
				10.01	0.24	10.25				4.00	16.91	9598
				9.00						4.00	15.60	
				14.04	1.06	15.10					14.04	9599
				14.78	1.04	15.82					14.78	9920
				14.00							14.00	
19.76	5.57					25.33	2.97	3.61			28.06	9762
						22.90	2.47	3.00			21.15	
15.08	7.10					22.18	3.81	4.63			27.75	9774
						20.00	3.29	4.00			21.87	
				10.76	0.56	11.32	1.73	2.10	2.57		20.89	9343
		8.00	2.00	10.00			1.65	2.00	2.00		18.95	
				9.26	1.70	10.96	1.95	2.37	2.19		19.83	9344
		6.00	2.00	8.00			1.65	2.00	2.00		16.55	
				11.49	0.97	12.46	0.87	1.06	1.25		18.04	9345
		8.00	2.00	10.00			0.82	1.00	1.00		15.46	
				9.89	0.50	10.39			2.24		14.31	9346
		8.00	2.00	10.00					2.00		14.00	
				9.22	0.90	10.12	2.46	2.99	0.92	8.12	29.46	9408
				9.09	0.74	9.83	2.34	2.84	1.00	8.01	28.84	9922
				8.00			2.47	3.00		10.00	29.01	
				10.50	1.10	11.60	2.51	3.05	0.82	3.05	25.05	9409
				8.00			3.29	4.00		4.00	24.27	
				9.56	2.52	12.08	2.36	2.87		2.92	23.06	9410
				10.08	1.45	11.53	2.95	3.58	0.72	2.40	25.13	9923
				8.00			2.47	3.00		3.00	20.61	

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
	Globe Fertilizer Co.	
9411	Big Four Tobacco Grower	Manufacturer
9924		L. C. Goering, Hawesville
9412	Eagle Wheat & Corn Grower ..	Manufacturer
9413	Progress Corn & Wheat Grower	Manufacturer
9925		Dunagan & Kirtley, Horse Cave
9414	Globe Bone Dust	Manufacturer
9926		J. H. Woosley, Caneyville
9415	Bone & Potash	Manufacturer
9927		J. H. Woosley, Caneyville
9416	Big Four Phosphate.	Manufacturer
9417	Braden Formula	Manufacturer
9928		W. Lewis & Bro., Greensburg ..
9418	Globe Grain Grower	Manufacturer
9591	Globe Sol. Vegetable Manure...	Manufacturer
9929		W. B. Brewer, Fairview.....
9592	Phosphate of Potash	Manufacturer
9593	Globe Bone Meal.....	Manufacturer
9930		E. L. Faris, London
9594	Golden Harvest Bone Meal	Manufacturer
9931		E. L. Faris, London
9595	Globe Wheat Grower.....	Manufacturer

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.												
In Fine Bone.	In Medium Bone.	Phosphoric Acid.					Nitrogen.	Equivalent to Ammonia.	Potash.		Relative Value Per Ton.	Station Number.
		Soluble.	Reverted.	Available.	Insoluble.	Total.			From Muriate.	From Sulphate.		
				10.14	1.45	11.59	1.63	1.98		1.62	\$19.58	9411
				8.29	1.42	9.71	2.53	3.07		2.16	20.70	9924
				8.00			1.65	2.00		2.00	16.95	
				10.08	1.91	11.99	1.76	2.14		1.18	19.56	9412
				8.00			1.65	2.00		2.00	16.95	
				9.03	2.52	11.55	2.21	2.68		1.11	19.81	9413
				10.35	1.27	11.62	2.31	2.80		2.50	22.86	9925
				9.00			1.65	2.00		1.00	16.95	
				8.95	1.96	10.91	1.35	1.64		1.05	16.83	9414
				10.76	1.33	12.09	1.12	1.36		0.87	17.84	9926
				9.00			0.82	1.00		1.00	14.46	
				11.81	0.32	12.13	0.43	0.52		1.16	16.98	9415
				12.64	0.43	13.07	0.53	0.64		0.92	18.03	9927
				11.00			0.41	0.50		1.00	15.63	
				8.89	0.91	9.80				0.81	12.00	9416
				8.00						1.00	10.80	
				12.45	0.64	13.09	1.12	1.36		3.23	22.44	9417
				11.91	1.02	12.93	1.29	1.57		3.82	23.15	9928
				11.00			0.82	1.00		3.00	19.26	
				10.90	0.42	11.32	0.52	0.63		1.25	16.31	9418
				9.00			0.41	0.50		1.50	13.83	
				9.52	2.47	11.99	2.65	3.22		2.79	23.71	9591
				8.31	1.36	9.67	2.64	3.20	0.88	2.31	22.08	9929
				8.00			2.47	3.00		3.00	20.61	
				10.77	0.32	11.09				3.96	17.80	9592
				9.00						4.00	15.60	
14.95	7.03					21.98	3.70	4.49			27.28	9593
9.15	11.65					20.80	4.32	5.24			27.27	9930
						20.00	3.29	4.00			21.87	
				9.63	3.99	13.62	3.16	3.84			22.64	9594
				11.61	3.29	14.90	2.48	3.01			22.69	9931
				10.00			2.47	3.00			19.41	
				10.75	2.06	12.81	2.08	2.53		1.83	22.16	9595
				10.00			1.65	2.00		2.00	19.35	

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
9596	Globe Fertilizer Co. Globe Acid Phosphate.....	Manufacturer
9597	Acorn Acid Phosphate	Manufacturer
9761	Acorn Bone Meal.	Manufacturer
9819	Potash Special.....	Manufacturer
	The Hardy Packing Co., Chicago, Ill.	
9522	Hardy's Southern Phosphate ...	Manufacturer
9792		W. F. Scott, East View.....
9523	Hardy's Crop Producer.....	Manufacturer
9790		Green Wilyard, East View
9806		J. D. Harned, Sadler
9524	Hardy's Corn & Wheat Grower	Manufacturer
9789		Green Wilyard, East View.....
9525	Hardy's Tankage, Bone & Pot'sh	Manufacturer
9811		A. E. Nacke, East View
9526	Hardy's Tob. & Potato Special..	Manufacturer
9791		W. F. Scott, East View.....
10014	Hardy's Packers Raw Bone.....	Manufacturer
	The Jarecki Chemical Co., Sandusky and Cincinnati, O.	
9448	Pure Ground Bone	Manufacturer
9937		J. M. Whitworth, Caneyville...
9449	O. K. Fertilizer... ..	Manufacturer

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.												
Phosphoric Acid.							Nitrogen.	Equivalent to Ammonia.	Potash.		Relative Value per Ton.	Station Number.
In Fine Bone.	In Medium Bone.	Soluble.	Reverted.	Available.	Insoluble.	Total.			From Muriate.	From Sulphate.		
				14.48 <i>14.00</i>	0.81	15.29					\$14.48 <i>14.00</i>	9596
				10.50 <i>10.00</i>	1.27	11.77					10.50 <i>10.00</i>	9597
19.73	5.57					25.30 <i>22.90</i>	2.94 <i>2.47</i>	3.57 <i>3.00</i>			27.94 <i>21.15</i>	9761
				12.95 <i>10.00</i>	0.35	13.30				1.40 <i>2.00</i>	17.36 <i>14.40</i>	9819
				10.38 <i>14.70</i> <i>9.00</i>	8.16 <i>1.47</i>	18.54 <i>16.17</i> <i>10.00</i>					10.38 <i>14.70</i> <i>9.00</i>	9522 9792
				7.37 <i>8.51</i>	2.29 <i>1.47</i>	9.66 <i>9.98</i>	1.15 <i>1.47</i>	1.40 <i>1.78</i>	1.38 <i>1.96</i>		14.59 <i>17.17</i>	9523 9790
				8.23 <i>7.00</i>	5.04 <i>8.00</i>	13.27 <i>8.00</i>	0.67 <i>0.82</i>	0.81 <i>1.00</i>		1.23 <i>1.00</i>	15.39 <i>12.46</i>	9806
				9.97 <i>8.54</i> <i>8.00</i>	2.38 <i>2.19</i>	12.35 <i>10.73</i> <i>9.00</i>	0.66 <i>1.20</i> <i>0.41</i>	0.80 <i>1.46</i> <i>0.50</i>	3.63 <i>2.92</i>		18.52 <i>17.65</i> <i>14.23</i>	9524 9789
				9.94 <i>8.95</i> <i>8.00</i>	1.70 <i>1.23</i>	11.64 <i>10.18</i> <i>9.00</i>	1.40 <i>2.72</i> <i>1.23</i>	1.70 <i>3.30</i> <i>1.50</i>	3.88 <i>4.63</i>		20.69 <i>24.02</i> <i>16.09</i>	9525 9811
				9.67 <i>7.91</i> <i>8.00</i>	1.88 <i>0.88</i>	11.55 <i>8.79</i> <i>9.00</i>	1.76 <i>3.65</i> <i>1.65</i>	2.14 <i>4.43</i> <i>2.00</i>	4.20 <i>6.86</i>		21.83 <i>27.65</i> <i>19.75</i>	9526 9791
18.88	10.16					29.04 <i>27.00</i>	1.30 <i>1.23</i>	1.58 <i>1.50</i>			25.10 <i>19.89</i>	10014
20.19 22.44	7.47 3.35					27.66 <i>25.79</i> <i>20.00</i>	2.41 <i>2.96</i> <i>2.47</i>	2.93 <i>3.59</i> <i>3.00</i>			27.86 <i>28.84</i> <i>19.41</i>	9448 9937
				6.64 <i>6.00</i>	2.03	8.67 <i>7.00</i>	0.48 <i>0.41</i>	0.58 <i>0.50</i>	0.71 <i>0.50</i>		10.93 <i>9.33</i>	9449

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
9450 9938	The Jarecki Chemical Co. Phosphate and Potash.....	Manufacturer Hines & Swope, Science Hill..
9451 9634	Lake Erie Fish Guano	Manufacturer J. F. Hale, Brock
9452	Fish and Potash Grain Special..	Manufacturer
9453 9939	Number One Fish Guano.....	Manufacturer Hines & Swope, Science Hill..
9454 9940	C. O. D. Phosphate	Manufacturer Hines & Swope, Science Hill..
9455	St. Bernard Phosphate	Manufacturer
9456 9941	Fish & Potash, Pot. & Tob. Food	Manufacturer J. M. Whitworth, Caneyville...
9457	Dissolved Bone with Potash	Manufacturer
9306	J. B. Jones, Louisville, Ky. Raw Bone Meal.....	Manufacturer
9307	Tobacco and Potato Grower	Manufacturer
9308 9794	Corn Grower	Manufacturer M. H. Webb, Simpsonville.....
9309	Wheat Grower.....	Manufacturer
9310	Ammoniated Bone Meal.....	Manufacturer

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.												
Phosphoric Acid.							Nitrogen.	Equivalent to Ammonia.	Potash.		Relative Value Per Ton.	Station Number.
In Fine Bone.	In Medium Bone.	Soluble.	Reverted.	Available.	Insoluble.	Total.			From Muriate.	From Sulphate.		
				9.87	1.52	11.39				2.18	\$15.07	9450
				9.99	2.16	12.15			1.91		14.76	9938
				10.00		11.00			2.00		14.40	
				10.16	1.87	12.03	1.63	1.98		1.41	19.52	9451
				10.45	1.79	12.24	1.56	1.89	1.34		19.28	9634
				10.00		11.00	1.65	2.00	1.00		18.35	
				10.00	1.59	11.59	1.36	1.65		2.49	19.71	9452
				9.00		10.00	1.23	1.50	2.00		16.89	
				10.17	1.64	11.81	0.93	1.13		1.29	17.20	9453
				11.80	1.66	13.46	0.93	1.13	1.29		18.90	9939
				10.00		11.00	0.82	1.00	1.00		15.86	
				14.07	2.29	16.36					14.07	9454
				12.83	4.98	17.81					12.83	9940
				14.00		15.00					14.00	
				12.81	2.09	14.90					12.81	9455
				12.00		13.00					12.00	
				8.01	1.50	9.51	0.88	1.07		3.56	17.12	9456
				9.44	1.79	11.23	0.90	1.09	2.04	2.15	19.37	9941
				8.00		9.00	0.82	1.00		4.00	17.26	
				11.61	2.00	13.61				2.52	17.75	9457
				12.00		13.00			3.00		17.80	
20.42	5.11					25.53	3.87	4.70			31.02	9306
						21.50	3.50	4.25			23.40	
				9.24	4.08	13.32	3.13	3.80		5.86	29.14	9307
				10.00		12.00	2.88	3.50		5.50	28.04	
				7.73	3.57	11.30	2.52	3.06		1.73	20.35	9308
				6.95	4.36	11.31	2.44	2.96		1.77	19.52	9794
				9.00		11.00	2.47	3.00		1.50	20.81	
				8.12	3.42	11.54	2.30	2.79		2.26	20.72	9309
				9.00		11.00	1.70	2.06		2.00	19.10	
11.14	1.97					*13.11	2.15	2.61			16.54	9310
						15.00	2.06	2.50			15.18	

*Contains Soluble Phosphoric Acid.

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
	The Jones Fertilizing Co., Cincinnati, O.	
9602	Bone Meal	Manufacturer
9603	Ammoniated Bone Meal.....	Manufacturer
9604	Corn and Wheat Grower	Manufacturer
9605 9955	Tobacco and Potato Grower	Manufacturer
		J. B. Benjamin, Providence
9606 9956	Miami Valley.....	Manufacturer
		J. B. Benjamin, Providence
9607 9957	Jones' Reliable	Manufacturer
		Thos. E. Hedges, Rectorville..
9608 9958	Jewel Phosphate.....	Manufacturer
		J. W. Webb & Son, Vanceburg
9609	Acid Phosphate.....	Manufacturer
10140	Potash Mixture.....	Manufacturer
10141	High Grade Dissolved Bone.....	Manufacturer
	Kaufman Fertilizer Co., Indianapolis, Ind.	
9629	Special Potato & Tob. Fertilizer	Manufacturer
9630	Harvest King.....	Manufacturer
9631	Banner Crop Grower	Manufacturer

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.													
In Fine Bone.	In Medium Bone.	Phosphoric Acid.					Total.	Nitrogen.	Equivalent to Ammonia.	Potash.		Relative Value per Ton.	Station Number.
		Soluble.	Reverted.	Available.	Insoluble.	From Muriate.				From Sulphate.			
13.74	9.95					*23.69 20.00	3.68 3.29	4.47 4.00			\$28.00 21.87	9602	
				8.06 5.00	9.06	17.12 15.00	4.01 4.12	4.87 5.00			25.32 22.36	9603	
				11.57 9.00	2.26	13.83 10.00	1.20 0.82	1.46 1.00		1.77 1.00	20.50 14.86	9604	
				11.51 10.22 10.00	3.88	15.39 15.44 12.00	2.18 1.85 1.65	2.65 2.25 2.00		3.52 4.00 4.00	26.12 24.70 22.55	9605 9955	
				13.59 10.70 10.00	2.80	16.39 16.90 12.00	1.72 1.77 1.65	2.09 2.15 2.00	0.74	1.74 1.98 2.00	25.42 23.01 20.15	9606 9956	
				8.70 9.06 8.50	2.72	11.42 14.80 10.00	1.81 1.62 1.23	2.20 1.97 1.50		1.84 1.13 1.25	19.17 19.39 15.99	9607 9957	
				10.51 9.36 8.00	1.91	12.42 13.61 10.00	0.92 1.17 0.82	1.12 1.42 1.00			16.13 16.44 12.86	9608 9958	
				10.46 8.00	0.55	11.01 10.00					10.46 8.00	9609	
		6.00	4.00	10.77 10.00	1.00	11.77 11.00			2.00	2.72	16.58 14.40	10140	
		8.00	6.00	15.68 14.00	1.64	17.32 15.00					15.68 14.00	10141	
				7.47 8.00	2.67	10.14	1.68 1.65	2.04 2.00	0.98	2.85 4.00	19.47 19.35	9629	
				6.92 8.00	2.80	9.72	1.06 1.03	1.29 1.25	2.00	2.24	15.29 14.69	9630	
				6.57 7.00	2.62	9.19	0.55 0.82	0.67 1.00	1.00	1.55	12.44 11.86	9631	

*Contains Soluble Phosphoric Acid.

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
9632	Kaufman Fertilizer Co. Alkaline Bone and Potash	Manufacturer
10031	Pure Bone.....	Manufacturer
	Louisville Fertilizer Co., Louisville, Ky.	
9171	Eagle Special Tobacco Grower..	Manufacturer
9959		Jno. T. Hopkins, Henderson...
9172	Eagle Special Corn Grower.....	Manufacturer
9793		L. H. Girky, Nancy.....
9173	Eagle High Grade Tobacco and Potato Grower	Manufacturer
9960		Crowell-Nunn Co., Blackford ..
9174	Eagle Phosphate.....	Manufacturer
9961		J. P. Strother, Milton
9175	Eagle Dissolved Bone	Manufacturer
9962		C. J. Rhoads, Hartford
9176	Eagle Guano	Manufacturer
9177	Eagle Corn and Wheat Grower	Manufacturer
9963		S P. Simpson, Murray
9178	Eagle Bone Meal	Manufacturer
9964		J. M. Whitworth, Caneyville...
9179	Eagle Tobacco Grower	Manufacturer
9965		L. S. Brough, Bowling Green....
9180	Eagle Bone and Potash.....	Manufacturer

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
	Louisville Fertilizer Co.	
9181	Eagle Acid Phosphate.....	Manufacturer
9182	Eagle Potash Mixture.....	Manufacturer
9183	Eagle Soluble Bone	Manufacturer
9184	Eagle Special Wheat Grower. ...	Manufacturer
9334 9966	Eagle Raw Bone.....	Manufacturer
		J. W. Kelly, Leitchfield.....
9991	Eagle High Grade Dis. Bone ...	Manufacturer
	P. B. Mathiason M'f'g Co., St. Louis, Mo.	
9440	Increscent Tobacco & Potato Grower.....	Manufacturer
9441	Increscent Brand Acidulated Bone & Potash.....	Manufacturer
9601	Increscent Brand Dis. Bone.....	Manufacturer
	C. N. Meriwether, Clarksville, Tenn.	
9543	Clarksville Spec. Tob. Grower..	Manufacturer
9544	Clarksville Grain Grower.....	Manufacturer
	Michigan Carbon Works, Detroit, Mich.	
9299 9975	Homestead A Bone Black Fert..	Manufacturer
		D. H. Hatter, Franklin.....
9300 9976	Homestead Tobacco Grower	Manufacturer
		D. H. Hatter, Franklin.....

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.													
In Fine Bone.	In Medium Bone.	Phosphoric Acid.					Total.	Nitrogen.	Equivalent to Ammonia.	Potash.		Relative Value Per Ton.	Station Number.
		Soluble.	Reverted.	Available.	Insoluble.	From Muriate.				From Sulphate.			
				10.64	0.95	11.59						\$10.64	9181
		6.00	4.00	10.00		11.00						10.00	
				12.61	1.13	13.74					3.68	20.00	9182
		6.00	4.00	10.00		11.00					2.00	14.80	
				8.66	0.87	9.53	1.04	1.26	0.72	0.83	15.58	14.26	9183
		5.00	3.00	8.00		9.00	0.82	1.00		1.50	14.26		
				7.92	1.16	9.08	0.91	1.10	0.66	0.52	13.97	12.46	9184
		4.00	3.00	7.00		8.00	0.82	1.00		1.00	12.46		
23.06	3.75					26.81	2.43	2.95			27.99		9334
23.06	4.39					27.45	2.24	2.72			27.80		9966
						20.00	2.47	3.00			19.41		
				14.73	0.83	15.56					14.73		9991
		8.00	6.00	14.00		15.00					14.00		
				8.65	2.61	11.26	1.84	2.23	1.02	4.10	22.88	20.35	9440
				7.00		11.00	1.65	2.00		4.50	20.35		
				8.91	3.51	12.42	2.64	3.20	0.76	2.57	23.85	21.81	9441
				9.00		13.00	2.47	3.00	2.00		21.81		
				9.73	3.75	13.48	3.13	3.80		4.59	28.08	25.00	9601
				9.00		12.00	3.00	3.64	4.00		25.00		
				3.24	0.73	3.97	2.87	3.48		9.25	23.89	20.71	9543
		2.00	1.00	3.00		3.25	2.47	3.00		8.00	20.71		
				9.95	2.24	12.19	0.80	0.97		2.07	17.72	17.56	9544
		8.00	2.00	10.00		11.00	0.82	1.00		2.25	17.56		
				9.32	1.82	11.14	1.92	2.33	1.67		19.34		9299
				8.80	3.19	11.99	2.00	2.43	1.43		19.27		9975
				8.00		9.00	2.06	2.50	1.50		17.68		
				10.43	0.84	11.27	3.18	3.86	3.53		25.93		9300
				10.00	2.46	12.46	2.80	3.40	3.50		24.88		9976
				10.00			2.88	3.50	3.50		24.14		

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
	Michigan Carbon Works.	
9301 9977	Homestead Pot. & Tob. Fertiliz'r	Manufacturer Hausgen, Fulton & Co., Anchorage.....
9302 9978	Red Line Crop Grower	Manufacturer J. R. Davis & Bro., Campbells-ville
9303 9979	Red Line Complete Manure.....	Manufacturer Hausgen, Fulton & Co., Anchorage
9304 9980	Red Line Phosphate	Manufacturer Cochran & Baker, Marion..
9305	Red Line Phosphate with Pot'sh	Manufacturer
9446 9981	Desiccated Bone	Manufacturer D. H. Hatter, Franklin
9447	Wolverine Ground Bone.....	Manufacturer
	Nelson Morris & Co., Chicago, Illinois.	
9752	Big One, Pure Raw Bone	Manufacturer
9753	Big Two, Pure Bone Meal	Manufacturer
9754	Big Three, Bone Phosphate.....	Manufacturer
9755 9834	Big Four, Bone Phosphate.....	Manufacturer Ben Mylor, Gex.....
9756	Big Five, Bone Phosphate	Manufacturer

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.												Relative Value per Ton.	Station Number.
Phosphoric Acid.							Nitrogen.	Equivalent to Ammonia.	Potash.				
In Fine Bone.	In Medium Bone.	Soluble.	Reverted.	Available.	Insoluble.	Total.			From Muriate.	From Sulphate.			
				9.06	1.66	10.72	2.06	2.50	2.97			\$20.68	9301
				8.75	3.19	11.94	2.28	2.77	3.30			21.92	9977
				8.00		9.00	2.06	2.50	3.00			19.18	
				9.16	1.65	10.81	1.70	2.06	2.35			19.10	9302
				7.99	2.78	10.77	1.88	2.28	2.27			18.61	9978
				8.00		9.00	1.65	2.00	2.00			16.95	
				8.95	0.93	9.88	0.91	1.10	0.87			14.71	9303
				5.99	3.36	9.35	1.22	1.48	1.35			13.54	9979
				7.00		8.00	0.82	1.00	1.00			12.26	
				15.42	0.37	15.79						15.42	9304
				15.91	0.31	16.22						15.91	9980
				14.00		15.00						14.00	
				11.63	0.23	11.86				2.01		16.06	9305
				10.00		11.00				2.00		14.40	
25.41	6.75					32.16	1.37	1.66				28.49	9446
22.07	9.91					31.98	1.52	1.85				28.17	9981
						25.00	1.23	1.50				18.69	
16.96	11.31					28.27	1.74	2.11				25.58	9447
						25.00	1.65	2.00				19.95	
13.18	11.23					24.41	3.78	4.59				28.62	9752
						24.00	3.29	4.00				24.27	
25.61	2.53					28.14	2.10	2.55				28.31	9753
						28.00	2.06	2.50				22.98	
8.27	2.07					10.34	3.63	4.41	2.13			20.88	9754
						10.00	2.47	3.00		2.00		15.81	
7.49	3.36					*10.85	4.93	5.99	1.52	3.36		28.35	9755
9.28	2.62					11.90	4.77	5.79	1.02	2.97		27.88	9834
						12.00	4.12	5.00		4.00		24.36	
9.72	1.72					*11.44	2.70	3.28	0.98			17.89	9756
						10.00	2.47	3.00		1.00		14.61	

*Contains Soluble Phosphoric Acid.

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
	Nelson Morris & Co.	
9757	Big Six, Special Bone Meal.....	Manufacturer
9758	Big Seven, High Grade Acid Phosphate.....	Manufacturer
9759	Big Eight, Amm. Acid Phos. with Potash added	Manufacturer
	National Fertilizer Co., Nashville, Tenn.	
9568	Acid Phosphate.....	Manufacturer
9569 9984	Sadler's Formula	Manufacturer
		W. Lewis & Bro, Greensburg..
9614	Special Tobacco Fertilizer.....	Manufacturer
9775	National Dissolved Bone.....	Manufacturer
9776 9985	Tobacco Grower	Manufacturer
		W. Lewis & Bro., Greensburg..
9777 9986	M. & S. Tobacco Grower	Manufacturer
		Miller & Sullivan, Elkton..
9783 9987	Corn Grower	Manufacturer
		Shaver & Atherton, Livermore
9786	Acid Phosphate.....	Manufacturer
9787 9988	Acid Phosphate & Potash	Manufacturer
		W. Lewis & Bro., Greensburg..
9953 9989	Pea Grower.....	Manufacturer
		Shaver & Atherton, Livermore

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.												
In Fine Bone.	In Medium Bone.	Phosphoric Acid.					Nitrogen.	Equivalent to Ammonia.	Potash.		Relative Value Per Ton.	Station Number.
		Soluble.	Reverted.	Available.	Insoluble.	Total.			From Muriate.	From Sulphate.		
24.05	2.38					26.43	1.37	1.66			\$24.78	9757
						27.00	0.82	1.00			18.66	
				10.89	1.51	12.40					10.89	9758
				10.00		11.00					10.00	
				9.45	1.50	10.95	1.12	1.36	0.94	1.03	17.43	9759
				10.00		11.00	0.82	1.00		1.00	16.06	
				12.27	2.69	14.96					12.27	9568
		8.00	4.00	12.00							12.00	
				12.00	1.29	13.29			2.20		17.12	9569
				11.41	3.66	15.07			1.59		16.74	9984
		8.00	4.00	12.00					2.00		16.40	
				9.34	1.46	10.80	2.44	2.96	10.90		30.01	9614
		6.00	2.00	8.00			2.47	3.00	10.00		27.01	
				10.11	6.42	16.53	0.99	1.20	1.42		19.09	9775
				10.00		11.00	0.82	1.00	1.00		15.86	
				10.57	3.63	14.20	1.43	1.74	2.19		20.61	9776
				10.13	2.15	12.28	1.86	2.26	1.23		19.83	9985
				10.00		11.00	1.65	2.00	2.00		19.35	
				10.49	1.78	12.27	1.37	1.66	4.17		21.58	9777
				10.71	1.55	12.26	1.65	2.00	3.42		21.84	9986
				10.00		11.00	1.65	2.00	4.00		21.35	
				9.82	6.29	16.11	0.97	1.18	1.33		18.54	9783
				9.91	3.42	13.33	0.88	1.07	1.17		17.07	9987
				10.00		11.00	0.82	1.00	1.00		15.86	
				14.64	2.55	17.19					14.64	9786
				14.00		15.00					14.00	
				10.39	1.65	12.04			1.87		15.00	9787
				10.68	4.03	14.71			1.54		15.97	9988
				10.00		11.00			2.00		14.40	
				9.83	2.17	12.00			1.78		14.45	9953
				11.21	1.84	13.05			3.42		17.61	9989
				10.00		11.00			2.00		14.40	

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
9954 9990	National Fertilizer Co. Tobacco Fertilizer.....	Manufacturer Reynolds & Co., Slaughterville
9382 9992	North-Western Fertilizing Co., Chicago, Ill. Horse Shoe Brand Quick Acting Phosphate	Manufacturer Watkins & Co., Elizabethtown
9383 9993	H. S. B. Bone & Potash.....	Manufacturer Dickey & Co., Glasgow.....
9384 9994	H. S. B. Success Corn Grower ..	Manufacturer H. C. Crawford, Millwood
9385	H. S. B. Cap Sheaf Wheat Grow	Manufacturer
9386 9995	H. S. B. Dark Tob. Grower.....	Manufacturer E. W. Curd & Co., Cave City...
9387	H. S. B. Acidulated Bone & Potash	Manufacturer
9388 9996	H. S. B. Corn & Wheat Grower..	Manufacturer W. A. Coffman, Vine Grove.....
9389	H. S. B. Challenge Corn Grower	Manufacturer
9390	H. S. B. Ky. Tobacco Grower...	Manufacturer
9391 9998	H. S. B. Tobacco Grower.....	Manufacturer Choat & Webb, Guthrie
9392	H. S. B. Potato Grower.....	Manufacturer

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.												
In Fine Bone.	In Medium Bone.	Phosphoric Acid.					Nitrogen.	Equivalent to Ammonia.	Potash.		Relative Value Per Ton.	Station Number.
		Soluble.	Reverted.	Available.	Insoluble.	Total.			From Muriate.	From Sulphate.		
				9.65	1.83	11.48	2.69	3.27	3.42		\$23.80	9954
				9.19	3.86	13.05	2.95	3.58	1.97		23.39	9990
				10.00		11.00	2.06	2.50	3.00		21.58	
				11.15	0.47	11.62					11.15	9382
				11.78	1.01	12.79					11.78	9992
		8.00	2.00	10.00		12.00					10.00	
				11.68	0.23	11.91			1.88		15.99	9383
				11.14	0.37	11.51			1.92		15.44	9993
		7.00	3.00	10.00		12.00			2.00		14.80	
				8.98	1.06	10.04	0.94	1.14	0.66		14.68	9384
				6.45	3.53	9.98	1.28	1.55	1.22		14.21	9994
		4.00	3.00	7.00		8.00	0.82	1.00	1.00		12.26	
				9.37	1.02	10.39	0.92	1.12	0.67		15.08	9385
		4.00	3.00	7.00		8.00	0.82	1.00	1.00		12.26	
				9.22	0.99	10.21	0.92	1.12	0.69		14.91	9386
				8.87	2.80	11.67	1.13	1.37	1.29		16.44	9995
		4.00	3.00	7.00		8.00	0.82	1.00	1.00		12.26	
				12.43	1.13	13.56	1.04	1.26	0.55		19.04	9387
		7.00	3.00	10.00		12.00	0.82	1.00	1.00		16.26	
				9.37	1.75	11.12	1.81	2.20	2.39		19.76	9388
				10.10	2.28	12.38	2.02	2.45	2.20		21.29	9996
		5.00	3.00	8.00		10.00	1.65	2.00	2.00		17.35	
				7.64	2.25	9.89	2.87	3.48	1.46		20.14	9389
		5.00	3.00	8.00		10.00	2.47	3.00	1.50		19.31	
				7.46	2.34	9.80	2.80	3.40	1.56		19.85	9390
		5.00	3.00	8.00		10.00	2.47	3.00	1.50		19.31	
				9.30	2.26	11.56	3.33	4.04	3.74		25.79	9391
				8.15	4.32	12.47	3.40	4.13	3.60		25.31	9998
		5.00	3.00	8.00		10.00	3.29	4.00	3.50		23.77	
				9.65	2.03	11.68	3.31	4.02	3.77		26.09	9392
		5.00	3.00	8.00		10.00	3.29	4.00	3.50		23.77	

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
	North-Western Fertilizing Co.	
9393	H. S. B. Bone and Superphosphate Mixture	Manufacturer
9394	H. S. B. Pure Ground Bone	Manufacturer
9999		H. C. Crawford, Millwood
9395	H. S. B. Fine Raw Bone.	Manufacturer
10000		H. C. Crawford, Millwood
10033		O. J. Duell, Sonora.....
	The Ohio Farmers Fertilizer Co., Columbus, O.	
9373	Acid Phosphate.....	Manufacturer
9374	Soluble Bone and Potash	Manufacturer
9375	General Crop Fish Guano	Manufacturer
10006		Handy & Reynolds, Cave City
9376	Wheat Maker & Seeding Down	Manufacturer
9377	Corn, Oats & Wheat Fish Guano	Manufacturer
10007		H. T. Peake, Vine Grove
9378	Tobacco Grower	Manufacturer
10008		Handy & Reynolds, Cave City
9379	Potato and Tobacco Special.....	Manufacturer
9380	Ammoniated Bone and Potash ..	Manufacturer
9381	Fine Ground Bone Meal.	Manufacturer
9872	Raw Bone Meal.....	Manufacturer

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.													
In Fine Bone.	In Medium Bone.	Phosphoric Acid.					Total.	Nitrogen.	Equivalent to Ammonia.	Potash.		Relative Value per Ton.	Station Number.
		Soluble.	Reverted.	Available.	Insoluble.	From Muriate.				From Sulphate.			
		4.00	3.00	5.98 7.00	7.29	13.27 13.00	2.60 2.47	3.16 3.00	0.97 0.50			\$18.87 18.71	9393
17.20	7.36					24.56	2.47	3.00				25.59	9394
14.76	7.27					22.03 20.00	2.44 2.47	2.96 3.00				23.49 19.41	9999
20.29						20.29	4.21	5.11				28.86	9395
17.51	1.12					18.63	4.42	5.37				27.94	10000
20.01						20.01 22.00	3.91 3.29	4.75 4.00				27.74 23.07	10033
				9.57 9.00	8.90	18.47 10.00						9.57 9.00	9373
				10.68 8.00	1.27	11.95			1.00 2.00	1 65		16.31 11.60	9374
				7.58 7.34 7.00	2.14 2.47	9.72 9.81	1.08 1.18 0.82	1.31 1.43 1.00	1.21 1.27 1.00			14.41 14.61 11.86	9375 10006
				9.17 8.00	1.74	10.91	0.75 0.41	0.91 0.50	3.23 2.50			17.18 13.33	9376
				9.90 9.57 8.00	1.54 1.66	11.44 11.23	1.52 1.19 1.23	1.85 1.44 1.50	1.85 2.11 2.00			18.91 17.82 15.29	9377 10007
				9.50 8.52 8.00	1.92 1.62	11.42 10.14	1.45 1.29 1.23	1.76 1.57 1.50	1.84 2.01 2.00			18.36 16.75 15.29	9378 10008
				9.93 8.00	1.60	11.53	1.74 1.65	2.11 2.00	4.12 4.00			21.90 18.55	9379
				9.55 8.00	3.01	12.56	1.13 0.82	1.37 1.00	4.29 4.00			20.34 16.06	9380
13.23	10.82					24.05 20.00	3.25 1.65	3.95 2.00				26.82 16.95	9381
16.62	13.06					29.68 27.00	1.08 1.23	1.31 1.50				24.38 19.89	9872

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
	Packers Fertilizer Association, Chicago, Ill.	
9489	Boars Head Brand Special Tobacco Grower.....	Manufacturer
10009		J. H. & M. F. Winfree, Hopkinsville
9490	B. H. B. Corn & Wheat Grower	Manufacturer
10010		G. C. Prather, Somerset
9491	B. H. B. Ky. Potash Mixture.....	Manufacturer
10011		Gardner Bros., Elizabethtown..
9492	B. H. B. World of Good Potato and Tobacco Grower	Manufacturer
10012		J. H. & M. F. Winfree, Hopkinsville
9493	B. H. B. World of Good Superphosphate	Manufacturer
9494	B. H. B. Soluble Phosphate.....	Manufacturer
9495	B. H. B. Potash Phosphate	Manufacturer
10013		Gardner Bros., Elizabethtown..
9496	B. H. B. Chicago Bone Meal.....	Manufacturer
9497	B. H. B. Raw Bone	Manufacturer
	Queen City Fertilizer Co., Cincinnati, O.	
9618	Valley Gem Phosphate.....	Manufacturer
10015		Thos. E. Hedges, Rectorville ..
9619	Tobacco and Potato Grower	Manufacturer
10016		Thos. E. Hedges, Rectorville ..

Commercial Fertilizers.

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.												
In Fine Bone.	In Medium Bone.	Phosphoric Acid.					Nitrogen.	Equivalent to Ammonia.	Potash.		Relative Value Per Ton.	Station Number.
		Soluble.	Reverted.	Available.	Insoluble.	Total.			From Muriate.	From Sulphate.		
				9.01	1.77	10.78	1.81	2.20	2.33		\$19.28	9489
		5.00	3.00	9.02	2.38	11.40	1.67	2.03	2.11		18.89	10009
				8.00		10.00	1.65	2.00	2.00		17.35	
				9.22	1.77	10.99	1.83	2.22	2.32		19.58	9490
		5.00	3.00	7.80	3.15	10.95	1.86	2.26	2.24		18.44	10010
				8.00		10.00	1.65	2.00	2.00		17.35	
				11.86	0.18	12.04			1.97		16.27	9491
		7.00	3.00	12.25	0.35	12.60			1.84		16.68	10011
				10.00		12.00			2.00		14.80	
				10.17	1.94	12.11	3.37	4.09	3.80		26.89	9492
		5.00	3.00	7.70	5.04	12.74	3.52	4.27	3.67		25.49	10012
				8.00		10.00	3.29	4.00	3.50		23.77	
		5.00	3.00	8.37	2.15	10.52	2.29	2.78	1.71		19.48	9493
				8.00		10.00	2.06	2.50	1.50		18.08	
		8.00	2.00	11.24	0.27	11.51					11.24	9494
				10.00		12.00					10.00	
				12.18	0.19	12.37			4.17		18.87	9495
		8.00	2.00	11.04	0.51	11.55			3.62		17.07	10013
				10.00		12.00			4.00		16.80	
16.87	7.23					24.10	2.65	3.22			25.79	9496
						20.00	2.47	3.00			19.41	
4.03	19.69					23.72	4.31	5.23			27.96	9497
						22.00	3.29	4.00			23.07	
				9.98	3.42	13.38	0.82	1.00		1.67	17.78	9618
				11.56	1.50	13.06	1.01	1.23	1.47		18.97	10015
				10.00			0.82	1.00	1.00		15.46	
				8.70	3.68	12.38	1.29	1.57		4.22	20.84	9619
				9.75	1.64	11.39	0.96	1.17	3.06		18.30	10016
				8.00			0.82	1.00	4.00		16.06	

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
9311 10017	Read Phosphate Co., Nashville, Tenn. Read's High Grade Tob. Grower	Manufacturer W. S. Pierce, Bedford.....
9312 10018	Read's Blood & Bone No. 1.....	Manufacturer W. S. Pierce, Bedford.....
9313 10019	Read's Alkaline Bone	Manufacturer W. S. Pierce, Bedford.....
9314 10020	Read's Farmer's Spec. Manure..	Manufacturer W. S. Pierce, Bedford.. ..
9315	Read's Corn Grower Special....	Manufacturer
9316	Read's Soluble Bone	Manufacturer
9317 10021	Read's X X X Dissolved Bone..	Manufacturer G.W. Plimell & Co., Science Hill
9318	Read's Special Potash Mixture.	Manufacturer
9319	Read's Tobacco Special	Manufacturer
9481	Ruhl & Pero, Louisville, Ky. Pure Bone Meal.....	Manufacturer
9482	Pure Ammoniated Bone Meal ...	Manufacturer
10136	Standard Guano & Chem. M'fg Co., New Orleans, La. Pure Raw Ground Bone	Manufacturer
9217 10024	Swift & Co., Chicago, Ill. Swift's Ky. Tobacco Grower....	Manufacturer P. H. Haffey, Whitesville.....

Commercial Fertilizers.

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TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.												
In Fine Bone.	In Medium Bone.	Soluble.	Reverted.	Phosphoric Acid.			Nitrogen.	Equivalent to Ammonia.	Potash.		Relative Value per Ton.	Station Number.
				Available.	Insoluble.	Total.			From Muriate.	From Sulphate.		
				8.79	3.30	12.09	1.72	2.09	1.06	3.05	\$21.75	9311
				8.31	2.72	11.03	1.76	2.14	0.80	2.94	20.67	10017
				8.00			1.65	2.00		4.00	19.35	
				8.74	4.45	13.19	1.74	2.11	2.64		20.13	9312
				8.67	3.71	12.38	0.95	1.15	2.64		17.37	10018
				8.00			1.65	2.00	2.00		16.55	
				10.67	3.33	14.00			2.17		16.30	9313
				8.82	3.45	12.27			2.53		14.49	10019
				10.00					2.00		14.00	
				11.13	3.19	14.32	1.03	1.25	3.20		20.93	9314
				11.38	2.23	13.61	1.04	1.26	2.49		20.16	10020
				10.00			0.82	1.00	3.00		17.46	
				10.64	3.24	13.88	1.07	1.30	1.18		18.46	9315
				10.00			0.82	1.00	1.00		15.46	
				9.29	4.58	13.87	1.11	1.35	2.10		18.41	9316
				8.00			0.82	1.00	2.00		14.06	
				15.17	3.30	18.47					15.17	9317
				14.78	1.94	16.72					14.78	10021
				13.00							13.00	
				10.83	3.02	13.85			4.16		18.37	9318
				10.00					4.00		16.00	
				8.84	1.04	9.88	1.69	2.05	1.32	7.08	25.92	9319
				8.00			1.65	2.00		8.00	24.15	
12.60	11.63					24.23	3.63	4.41			27.95	9481
						24.50	2.38	2.89			21.84	
6.71	4.11					10.82	4.40	5.34			21.04	9482
						8.50	3.50	4.25			15.60	
13.77	9.56					23.33	3.71	4.50			27.89	10136
						20.00	3.09	3.75			21.27	
				10.83	1.94	12.77	2.15	2.61		1.97	22.59	9217
				11.04	2.78	13.82	2.06	2.50	0.74	1.05	22.54	10024
				10.00		14.00	1.65	2.00		2.00	20.95	

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
	Swift & Company.	
9218 10025	Swift's Spec. Tobacco Fertilizer	Manufacturer C. P. Clark & Co., Owensboro .
9219	Swift's Garden City Phosphate..	Manufacturer
9220 10026	Swift's Superphosphate.....	Manufacturer Irvington Milling Co., Irvington
9221 10027	Swift's Complete Fertilizer	Manufacturer Bassett & Stone, Leitchfield.....
9222	Swift's Potato & Tob. Grower ..	Manufacturer
9223	Swift's Vegetable Grower.....	Manufacturer
9224	Swift's Phosphate & Potash....	Manufacturer
9225 10028	Swift's Pure Raw Bone Meal....	Manufacturer
9226 10029	Swift's Bone Meal.....	Manufacturer Bassett & Stone, Leitchfield....
9227	Ammoniated Bone	Manufacturer
9228	Ammoniated Bone & Potash....	Manufacturer
9229	Bone & Potash.....	Manufacturer
9230	Pure Acid Phosphate.....	Manufacturer
9231	Diamond S. Phosphate.....	Manufacturer

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.												
In Fine Bone.	In Medium Bone.	Phosphoric Acid.					Nitrogen.	Equivalent to Ammonia.	Potash.		Relative Value Per Ton.	Station Number.
		Soluble.	Reverted.	Available.	Insoluble.	Total.			From Muriate.	From Sulphate.		
				10.32	1.92	12.24	3.25	3.95		3.45	\$27.04	9218
				10.13	1.87	12.00	2.13	2.59	0.64	2.33	22.74	10025
				10.00		13.00	2.47	3.00		3.00	24.21	
				14.13	2.99	17.12					14.13	9219
				14.00		15.00					14.00	
				8.58	3.29	11.87	1.86	2.28	1.92		19.18	9220
				8.53	5.50	14.03	1.90	2.31	1.86		20.00	10026
				8.00		12.00	1.65	2.00	2.00		18.15	
				8.72	2.15	10.87	0.85	1.03	1.54		15.41	9221
				7.60	2.17	9.77	1.85	2.25	1.21		16.75	10027
				8.00		11.00	1.03	1.25	1.00		14.89	
				9.40	0.40	9.80	3.52	4.27		5.12	28.14	9222
				10.00		11.00	3.29	4.00		5.00	28.27	
				10.49	1.78	12.27	3.99	4.84		9.70	36.91	9223
				9.00		10.00	3.29	4.00	10.00		31.07	
				12.03	3.16	15.19				1.98	18.08	9224
				12.00		13.00			2.00		16.80	
16.20	9.51					25.71	3.84	4.66			30.19	9225
8.61	16.00					24.61	4.07	4.94			28.70	10028
						23.00	3.71	4.50			24.93	
22.18	4.22					26.40	2.51	3.05			27.80	9226
20.96	5.24					26.20	2.45	2.97			27.26	10029
						25.00	2.47	3.00			22.41	
15.25	2.48					17.73	5.29	6.42			29.56	9227
						17.00	4.94	6.00			25.02	
13.92	2.46					16.38	4.79	5.82		4.12	31.93	9228
						16.00	4.74	5.75	3.00		26.82	
16.83	6.22					23.05	3.00	3.64		2.74	29.48	9229
						23.50	2.47	3.00	3.00		24.51	
				18.17	0.87	19.04					18.17	9230
				16.00		17.00					16.00	
				11.56	2.60	14.16					11.56	9231
				10.00		11.00					10.00	

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
	Swift & Company.	
9232	Champion Wheat Grower	Manufacturer
9233	Champion Corn Grower	Manufacturer
9234 10030	Onion & Potato Special	Manufacturer
		C. P. Clark & Co., Owensboro
9833	Swift's Special Bone Meal.....	Manufacturer
	Tennessee Chemical Co., Nashville, Tenn.	
9189	Ox Ammoniated Phosphate	Manufacturer
9190 10041	Ox Special Tobacco Guano	Manufacturer
		Franklin Hardware Co., Franklin
9191	Ox High Grade Tobacco and Potato Grower.....	Manufacturer
9192	Ox Special Corn Grower	Manufacturer
9193	Ox Corn and Wheat Grower.....	Manufacturer
9194 10042	Ox Ammoniated Bone	Manufacturer
		J. F. Caplinger, Milton
9195	Ox Bone, Ammonia and Potash	Manufacturer
9196 10043	Ox Slaughter House Bone	Manufacturer
		J. F. Caplinger, Milton
9197 10044	Ox Potash Mixture	Manufacturer
		Turley & Co, Hartford.....

Commercial Fertilizers.

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TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.														
In Fine Bone.	In Medium Bone.	Phosphoric Acid.					Total.	Nitrogen.	Equivalent to Ammonia.	Potash.		Relative Value Per Ton.	Station Number.	
		Soluble.	Reverted.	Available.	Insoluble.	From Muriate.				From Sulphate.				
23.80	9.72			13.64	2.35	15.99	1.82	2.21	0.80	1.10	\$24.89	9232		
				12.00		13.00	1.65	2.00	2.00		21.75			
				13.24	2.06	15.30	1.81	2.20	0.82	1.35	24.58	9233		
				12.00		13.00	1.65	2.00	2.00		21.75			
				8.79	0.20	8.99	2.11	2.56		7.12	25.50	9234		
				9.25	1.38	10.63	1.77	2.15	6.77		23.73	10030		
				8.00		11.00	1.65	2.00		7.00	24.15			
						33.52	0.70	0.85			26.97	9833		
						27.50	0.82	1.00			18.96			
						8.11	1.42	9.53	0.67	0.81		12.31	9189	
				5.00	3.00	8.00		9.00	0.41	0.50		11.23		
						10.74	1.96	12.70	1.71	2.08	3.20	22.64	9190	
						11.04	1.89	12.93	1.81	2.20	1.79	21.23	10041	
				6.00	4.00	10.00		11.00	1.65	2.00	2.00	19.75		
						8.43	1.02	9.45	1.80	2.19	1.26	3.20	21.03	9191
				4.00	3.00	7.00		8.00	1.65	2.00	4.00	18.55		
						8.36	0.68	9.04	0.64	0.78		1.48	14.00	9192
				5.00	3.00	8.00		9.00	0.41	0.50	1.50	13.03		
						10.67	0.54	11.21			0.79	13.97	9193	
				6.00	4.00	10.00		11.00			0.50	13.00		
						11.04	1.68	12.72	1.72	2.09		3.27	23.00	9194
						11.58	2.19	13.77	1.72	2.09		1.59	21.85	10042
				6.00	4.00	10.00		11.00	1.65	2.00	2.00	19.75		
				10.73	0.95	11.68	1.09	1.32	0.56	0.78	18.03	9195		
		6.00	4.00	10.00		11.00	0.82	1.00	1.00	16.06				
				9.26	0.82	10.08	2.04	2.48	1.02	1.24	20.07	9196		
				11.22	2.05	13.27	1.78	2.16		2.10	22.14	10043		
		5.00	3.00	8.00		9.00	1.65	2.00	2.00	17.35				
				10.83	0.81	11.64				2.77	16.64	9197		
				9.68	0.80	19.48				1.49	17.33	10044		
		6.00	4.00	10.00		11.00			2.00	14.80				

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
	Tennessee Chemical Co.	
9198	Ox Alkaline Bone	Manufacturer
9199 10045	Ox High Grade Dissolved Bone	Manufacturer Langdon Bros., Science Hill ...
9200	Ox Phosphate	Manufacturer
9201 10046	Ox Alkaline Bone and Ammonia	Manufacturer Elvis Kelley, Spring Lick
9202 10047	Ox Corn and Wheat Guano.....	Manufacturer Depp & Holman, Glasgow
9335	Ox Bone Meal	Manufacturer
9336	Ox Raw Bone..	Manufacturer
9972	Ox Special Wheat Grower.....	Manufacturer
	Virginia Carolina Chemical Co., S. W. Travers & Co, Branch, Richmond, Va.	
9100 10048	National Tobacco Fertilizer.....	Manufacturer Hook, DeHaven & Co., Har- dinsburg
9101 10049	Beef, Blood & Bone Fertilizer...	Manufacturer Arthur Ferrell, Owensboro.....
9102 10050	Champion Corn & Wheat Grow'r	Manufacturer E. F. Morris, Eubanks.....
9103 10051	Capital Bone Potash Compound	Manufacturer F. Mahoney, Bedford.....

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.												
In Fine Bone.	In Medium Bone.	Phosphoric Acid.					Nitrogen.	Equivalent to Ammonia.	Potash.		Relative Value Per Ton.	Station Number.
		Soluble.	Reverted.	Available.	Insoluble.	Total.			From Muriate.	From Sulphate.		
				13.12	0.99	14.11				2.80	\$19.50	9198
		7.00	5.00	12.00		13.00				2.00	17.20	
				16.63	0.74	17.37					16.63	9199
				15.12	2.42	17.54					15.12	10045
		8.00	6.00	14.00		15.00					14.00	
				13.32	0.84	14.16					13.32	9200
		7.00	5.00	12.00		13.00					12.00	
				12.33	0.87	13.20	0.59	0.72		1.11	18.25	9201
				12.42	1.18	13.60	0.35	0.42		0.70	17.26	10046
		6.50	4.00	10.50		11.50	0.41	0.50		1.00	15.43	
				13.38	1.00	14.38	1.11	1.35	0.64	0.70	21.27	9202
				12.97	1.52	14.49	0.93	1.13		0.93	20.08	10047
		7.00	5.00	12.00		13.00	0.82	1.00		1.00	18.46	
22.38	1.18					23.56	0.57	0.69			20.32	9335
						20.00	0.82	1.00			14.46	
22.86	3.72					26.58	2.35	2.85			27.57	9336
						20.00	2.47	3.00			19.41	
				7.87	0.88	8.75	0.96	1.17		1.22	14.13	9972
		4.00	3.00	7.00		8.00	0.82	1.00	1.00		12.26	
				7.56	3.45	11.01	1.82	2.21	0.78	4.08	21.59	9100
				6.63	7.94	14.57	1.86	2.26	3.33		20.05	10048
		5.00	2.00	7.00		8.00	1.65	2.00		4.00	18.55	
				6.81	2.67	9.48	1.94	2.36	2.28		17.34	9101
				6.93	6.95	13.88	2.13	2.59	2.27		19.76	10049
		5.00	2.00	7.00		8.00	1.65	2.00	2.00		15.75	
				8.47	2.10	10.57	0.91	1.10	2.28		16.01	9102
				9.78	3.68	13.46	0.91	1.10	2.17		18.11	10050
		6.00	2.00	8.00		9.00	0.82	1.00	2.00		14.46	
				10.16	1.71	11.87			2.27		15.14	9103
				13.59	1.15	14.74			2.15		18.92	10051
		7.00	3.00	10.00		11.00			2.00		14.40	

TABLE OF ANALYSES.

Station Number.	NAME AND ADDRESS OF MANUFACTURER AND NAME OF BRAND.	From Whom Obtained.
9104 10052	Virginia-Carolina Chemical Co. Capital Dissolved S. C. Bone ...	Manufacturer Grant McDaniel, Vanceburg...
9873	Virginia-Carolina Chemical Co., Memphis Division, Memphis, Tenn. Royal High Grade Guano..	Manufacturer
9874	Royal Grain Grower	Manufacturer
9875	Beef, Blood & Bone Fertilizer...	Manufacturer
9934	Kentucky Spec. Wheat Grower	Manufacturer
9620 10053	Wake Fert. Co., Adairville, Ky... Old Kentucky Tobacco Grower	Manufacturer Mfrs. Warehouse.....
9621	Wake's Special.....	Manufacturer
9527	Wood, Stubbs & Co., Louis- ville, Ky. Acme Brand Potato & Tobacco..	Manufacturer
9528	A. B. Wheat and Corn	Manufacturer
9529	A. B. High Grade Vegetable....	Manufacturer
9530	A. B. Special Truckers	Manufacturer
9531	A. B. Blood, Bone & Potash	Manufacturer
9532	A. B. Soluble Bone & Potash ...	Manufacturer

September 16, 1902.

TABLE OF ANALYSES.

POUNDS IN THE HUNDRED.												
In Fine Bone.	In Medium Bone.	Phosphoric Acid.					Nitrogen.	Equivalent to Ammonia.	Potash.		Relative Value per Ton.	Station Number.
		Soluble.	Reverted.	Available.	Insoluble.	Total.			From Muriate.	From Sulphate.		
				12.28	2.25	14.53					\$12.28	9104
				11.74	1.91	13.65					11.74	10052
	9 00	3.00		12.00		13 00					12.00	
	7.00	3.00		10.22	3.71	13.93	1.89	2.29	2.71		22.12	9873
				10.00		12.00	1.65	2.00	2.00		19.75	
	7.00	3.00		12.57	0.50	13.07			4.99		20.27	9874
				10.00		12.00			4.00		16.80	
	6.00	2.00		8.90	4.35	13.25	1.75	2.12	2.46		20.13	9875
				8.00		10.00	1.65	2.00	2.00		17.35	
	7.00	3.00		10.39	4.71	15.10	1.04	1.26	4.26		21.73	9934
				10.00		12.00	0.82	1.00	3.00		18.26	
				7.13	2.29	9.42	3.47	4.21		8.22	29.75	9620
				6.58	2.34	8.92	3.78	4.59		8.85	30.80	10053
				6.00			3.00	3.64		7.00	24.60	
				8.42	2.24	10.66	2.56	3.11		5.25	24.98	9621
				8.00			2.00	2.43		4.00	20.40	
				10.40	3.31	13.71	2.62	3.18		5.37	28.10	9527
				8.00			2.47	3.00		5.00	23.01	
				10.63	6.81	17.44	1.75	2.12		2.13	23.29	9528
				10.00			0.82	1.00	2.00		16.46	
				11.96	0.37	12.33	3.22	3.91		4.80	29.92	9529
				10.00			3.29	4.00	4.00		25.87	
				9.94	1.39	11.33	2.24	2.72	1.24	0.97	21.61	9530
				8.00			2.47	3.00		2.00	19.41	
				11.90	4.54	16.44	2.01	2.44		2.33	24.93	9531
				10.00			1.65	2.00	2.00		18.95	
				11.68	9.36	21.04				2.21	20.41	9532
				10.00					2.00		14.00	

M. A. SCOVELL, Director and Chemist.
 H. E. CURTIS, Chemist, Fertilizers.

The following is a list of Bulletins issued by the Kentucky Agricultural Experiment Station since its organization. Those marked with a star (*) are out of print :

- *No. 1.—Do Fertilizers Affect the Quality of Tobacco? Dec. 23, 1885.
- “ 2.—Corn Fodder as Food for Stock. Jan. 4, 1886.
- * “ 3.—Milk.
- * “ 4.—Distillery Slop.
- * “ 5.—Analyses of Feeding-Stuffs.
- “ 6.—Clover.
- * “ 7.—Fertilizers.
- * “ 8.—Experiments with Wheat. Sept. 25, 1886.
- “ 9.—Experiments with Potatoes March 1, 1887.
- * “ 10.—Fertilizer Analyses. May, 1887.
- “ 11.—Wheat Experiments. September, 1887.
- * “ 12.—Fertilizer Analyses. Dec. 31, 1887.
- “ 13.—Commercial Fertilizers. April, 1888.
- “ 14.—Analyses of Commercial Fertilizers. July, 1888.
- “ 15.—Wheat Experiments. September, 1888.
- * “ 16.—Potato Experiments. December, 1888.
- “ 17.—Corn Experiments. February, 1889.
- “ 18.—1. Hemp Experiments. 2. Notes on the Treatment of an Old Apple Orchard. April, 1889.
- “ 19.—Experiments in Pig Feeding. May, 1889.
- “ 20.—Commercial Fertilizers. July, 1889.
- * “ 21.—Wheat Experiments. The Grain Louse. September, 1889.
- “ 22.—Potato Experiments. December, 1889.
- “ 23.—1. Experiments with Oats. 2. Tests of Fertilizers on Meadow Land. February, 1890.
- “ 24.—Broom-Rape of Hemp and Tobacco. March, 1890.
- “ 25.—Strawberries. April, 1890.
- “ 26.—Corn Experiments. April, 1890.
- “ 27.—Experiments with Commercial Fertilizers on Hemp. April, 1890.
- “ 28.—Tobacco Experiments. May, 1890.
- “ 29.—Commercial Fertilizers. July, 1890.
- “ 30.—Wheat Experiments. A new Wheat Insect. August, 1890.
- “ 31.—Some Strawberry Pests. December, 1890.
- “ 32.—Strawberries. Vegetables. March, 1891.
- “ 33.—Corn Experiments. April, 1891.
- “ 34.—Commercial Fertilizers. August, 1891.
- “ 35. 1. Experiments with Wheat. 2. Experiments with Oats. September, 1891.
- * “ 36.—Commercial Fertilizers. December, 1891.
- “ 37.—Experiments with Potatoes. December, 1891.
- “ 38.—1. Vegetables. 2. Strawberries. March, 1892.
- “ 39.—Marls. March, 1892.

- No. 40.—Some Common Pests of the Farm and Garden. March, 1892
- “ 41.—Commercial Fertilizers. July, 1892.
- “ 42.—1. Experiments with Wheat. 2. Experiments with Oats. September, 1892.
- “ 43.—Commercial Fertilizers. December, 1892.
- “ 44.—Bordeaux Mixture for Apple Pests. January, 1893.
- “ 45.—Field Experiments with Fertilizers. 1. Corn. 2. Potatoes. 3. Tobacco. April, 1893.
- “ 46.—Commercial Fertilizers. August, 1893.
- “ 47.—1. The Pests of Shade and Ornamental Trees. 2. An Experiment on Plum Rot. December, 1893.
- “ 48.—Commercial Fertilizers. January, 1894.
- “ 49.—1. Destructive Locusts in Kentucky. 2. The Bud-Worm of Tobacco. March, 1894.
- “ 50.—1. Fruit Growing in Kentucky. 2. Notes upon Vegetables. April, 1894.
- “ 51.—Commercial Fertilizers. August, 1894.
- “ 52.—Commercial Fertilizers. 1. Official Analyses. 2. Analyses of Farmers' Samples and Samples Collected by Deputy Inspectors. December, 1894.
- * “ 53.—1. Spraying for Codling Moth. 2. The use of Arsenites on Tobacco. 3. The use of Bisulphide of Carbon and Hydrocyanic Acid Gas on Low Growing Plants. December, 1894.
- “ 54.—Notes on Vegetables. March, 1895.
- “ 55.—Field Experiments with Fertilizers. 1. Corn. 2. Potatoes. 3. Tobacco. 4. Hemp. April, 1895.
- “ 56.—Analyses of Commercial Fertilizers. August, 1895.
- “ 57.—1. Wheat Experiments. 2. Oat Experiments. September, 1895.
- “ 58.—Cut Worms in Kentucky. November, 1895.
- “ 59.—Spraying Experiments in 1895. December, 1895.
- “ 60.—Analyses of Commercial Fertilizers. 1. Official Analyses. 2. Analyses of Farmers' and Inspectors' Samples. December, 1895.
- “ 61.—Potatoes. 1. Experiments with Fertilizers. 2. Insects and Fungus Pests. 3. Tests of Varieties. March, 1896.
- “ 62.—Stawberries. March, 1896.
- “ 63.—Tobacco. May, 1896.
- “ 64.—Analyses of Commercial Fertilizers. July, 1896.
- “ 65.—Analyses of Commercial Fertilizers. 1. Official Analyses. 2. Analyses of Other Samples. December, 1896.
- “ 66.—Tobacco. February, 1897.
- “ 67.—The San Jose Scale in Kentucky. May, 1897.
- “ 68.—Analyses of Commercial Fertilizers. May, 1897.
- “ 69.—Wheat. 1. Test of Varieties. 2. Test of Fertilizers. 3. Descriptions of Varieties. 4. Treatment for Smut. September, 1897.

- No. 70.—1. The Woolly Mullein. 2. The Gape Disease of Poultry. December, 1897.
- “ 71.—Analyses of Commercial Fertilizers. 1. Official Analyses. 2. Analyses of Other Samples. December, 1897.
- “ 72.—Potatoes. 1. Experiments with Fertilizers. 2. Corrosive Sublimate and Sulphur for Potato Scab in 1896. 3. Corrosive Sublimate for Potato Scab in 1897. February, 1898.
- “ 73.—Strawberries. February, 1898.
- “ 74.—1. The Chinch Bug. 2. Earthworms a Source of Gapes in Poultry. May, 1898.
- “ 75.—Commercial Fertilizers. June, 1898.
- “ 76.—Commercial Fertilizers. August, 1898.
- “ 77.—Wheat. 1. Test of Varieties. 2. Test of Fertilizers. 3. Notes and Descriptions. 4. Red Rust of Wheat. September, 1898.
- “ 78.—Ginseng, its Nature and Culture. November, 1898.
- “ 79.—Commercial Fertilizers. December, 1898.
- “ 80.—1. Some Pests Likely to be Disseminated from Nurseries. 2. The Nursery Inspection Law. March, 1899.
- “ 81.—1. A Method of Avoiding Lettuce Rot. 2. Potato Scab Experiments. March, 1899.
- “ 82.—Commercial Fertilizers. July, 1899.
- “ 83.—Wheat. 1. Experiments with Fertilizers. 2. Variety Tests. 3. Notes and Descriptions. August, 1899.
- “ 84.—The Elms and Their Diseases. November, 1899.
- “ 85.—Commercial Fertilizers. December, 1899.
- “ 86.—Inspection and Analyses of Foods. January, 1900.
- “ 87.—1. Kentucky Forage Plants—The Grasses. 2. Analyses of Some Kentucky Grasses. May, 1900.
- * “ 88.—Commercial Fertilizers. August, 1900.
- “ 89.—Wheat. 1. Test of Varieties. 2. Test of Fertilizers. 3. Descriptions of Varieties. September, 1900.
- * “ 90.—Commercial Fertilizers. December, 1900.
- “ 91.—1. Enemies of Cucumbers and Related Plants. 2. Experiments with Potato Scab. 3. The Food of the Toad. March, 1901.
- “ 92.—Grapes. April, 1901.
- “ 93.—1. Diseases of Nursery Stock. 2. Rabbits and Their Injuries to Young Trees. June, 1901.
- “ 94.—Wheat. 1. Test of Varieties. 2. Descriptions of Varieties. September, 1901.
- “ 95.—Commercial Fertilizers. September, 1901.
- “ 96.—1. The Hessian Fly. 2. Dangerous Mosquitoes in Kentucky. 3. Poisonous and Edible Mushrooms. November, 1901.
- “ 97.—Commercial Fertilizers. December, 1901.
- “ 98.—1. Kentucky Forage Plants—The Clovers and Their Allies. 2. Notes on True Grasses in the Plots in 1900–1901. 3. Analyses of Forage Plants from the Plots. February, 1902.
- “ 99.—Oats. 1. Test of Varieties. 2. Treatment for Smut. 3. Test of Fertilizers. 4. Relative Value of the Varieties for Feeding. April, 1902.
- “ 100.—Inspection and Analyses of Foods. February, 1902.
- “ 101.—A Comparison of Feeds for Pigs. May, 1902.
- “ 102.—Commercial Fertilizers. September, 1902.