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Frequency Distribution of Soil Tests in Indiana by County and by Soil Group

Eldon L. Hood

Russell K. Stivers

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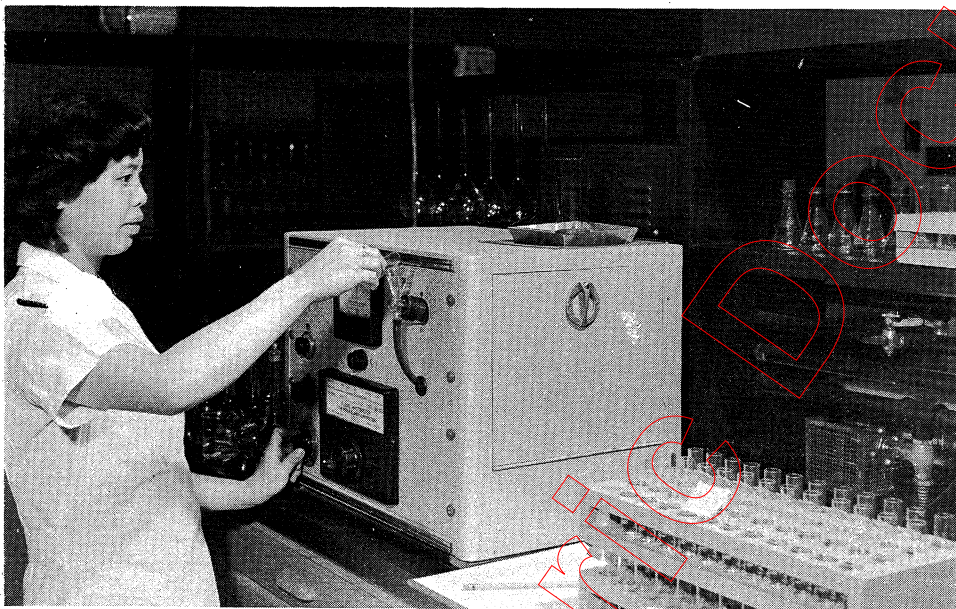
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**Frequency Distribution
of Soil Tests in Indiana
by County and by Soil Group
for 1962**



Soil samples are numbered as received in the Purdue Soil Testing Laboratory.



Samples are tested for potassium, using a flame photometer.

The pH (acidity) of soil is measured with glass electrode pH meter.



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FREQUENCY DISTRIBUTION OF SOIL TESTS IN INDIANA
BY COUNTY AND BY SOIL GROUP FOR 1962

Eldon L. Hood and Russell K. Stivers

INTRODUCTION

















This bulletin is a report of the summary of the soil test information on samples received by the soil testing laboratory during 1962.

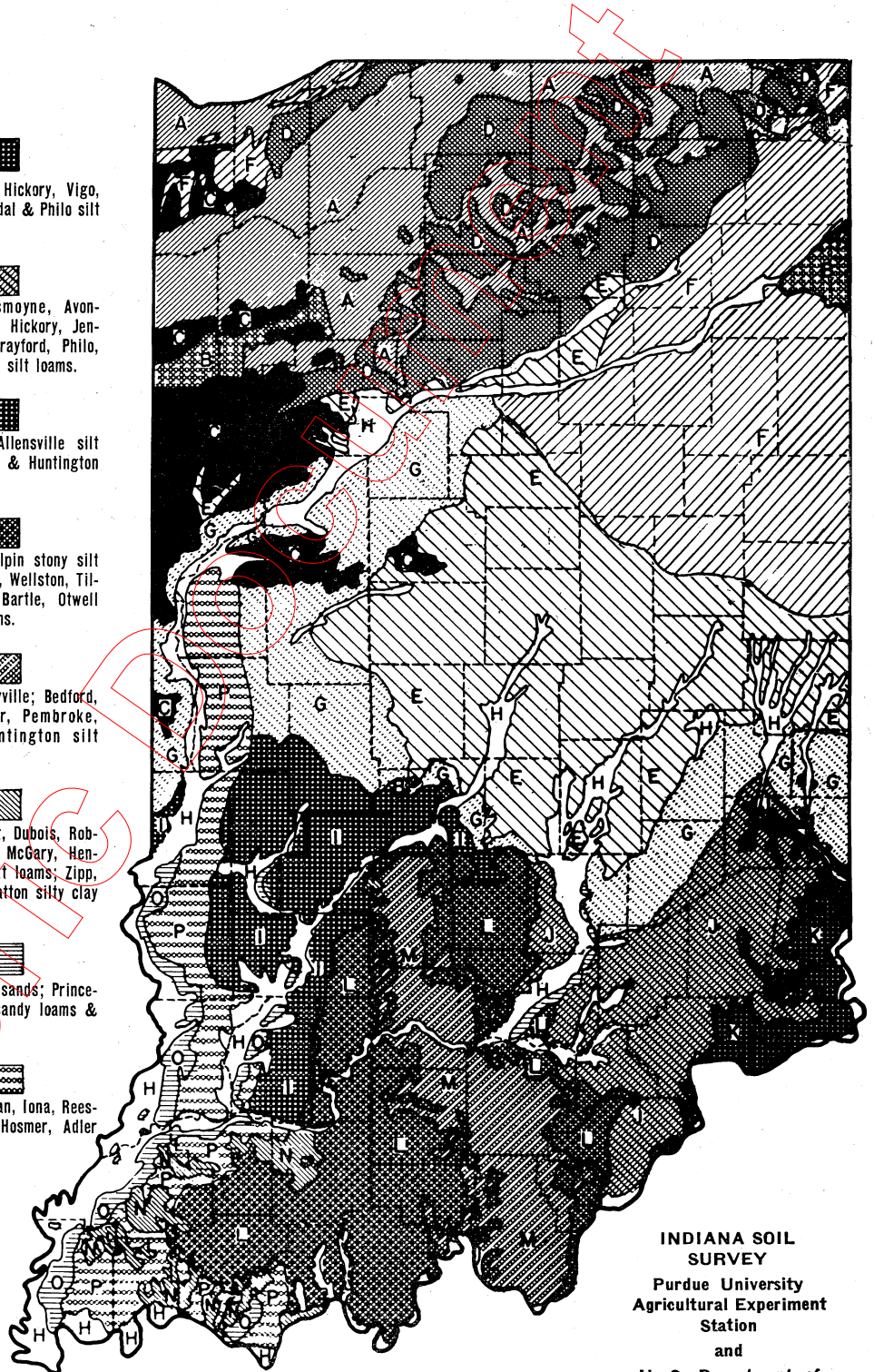
Soil samples sent to the Purdue University Soil Testing Laboratory are analyzed chemically for pH, lime requirement, available phosphate and available potash. The nitrogen recommendations are based on general soil type, soil color, recent cropping history and the crop to be grown. Fertilizer recommendations for phosphate and potash are made largely from laboratory tests. The location of the sample, the general characteristics of the soil, previous fertilization and liming practices, recent cropping history, and the crop to be fertilized were taken from the field and cropping information sheet.

During 1962, 39,425 soil samples were analyzed. The data from these samples were summarized on a state-wide basis, by county, as well as by soil group.

The soil group classifications used here need clarification since the samples were placed in the various soil groups according to the information given on the soil test information sheet. Thirty-seven soil groups were used. Each soil sample was placed into one of 16 separate soil regions in the state according to the geographic location of the sample (Map 1). The samples within each soil region were subdivided into soil groups on the basis of soil color, soil texture, drainage, and land form. The soil group number, the combinations of properties used to obtain them and the soil types within each group are shown in Table 1.

Principal Soil Types of the Regions

- | | |
|--|---|
| <p>A </p> <p>Maumee, Granby, Newton & Runnymede sandy loams; Plainfield & Tyner sands; mucks; Door, Tracy, Fox, Kalamazoo, Warsaw & Oshtemo loams, sandy loams, & loamy sands.</p> | <p>I </p> <p>Ava, Cincinnati, Hickory, Vigo, Iva, Wilbur, Stendal & Philo silt loams.</p> |
| <p>B </p> <p>Hoytville, Mahalassville, Nappanee, Pewamo & silty clay loams in east; Darroch, Foresman, Rensselaer silt loam & loam, Onarga sandy loam, Brenton, Proctor and Strole silt loams in west.</p> | <p>J </p> <p>Cincinnati, Rossmoyne, Avonburg, Clermont, Hickory, Jennings, Colyer, Grayford, Philo, Stendal & Atkins silt loams.</p> |
| <p>C </p> <p>Parr & Odell silt loams & loams; Sidell, Raub, Elliott & Flanagan silt loams; Chalmers & Romney silty clay loams.</p> | <p>K </p> <p>Switzerland & Allensville silt loams; Fairmount & Huntington silty clay loams.</p> |
| <p>D </p> <p>Miami, Crosby, Brookston, Bremen, Galena, Otis, Fox & Hillsdale loams & sandy loams; Coloma loamy sand.</p> | <p>L </p> <p>Muskingum & Gilpin stony silt loams, Zanesville, Wellston, Tillsit, Elkinsville, Bartle, Otwell & Philo silt loams.</p> |
| <p>E </p> <p>Crosby, Celina, & Miami silt loams; Brookston & Kokomo silty clay loams.</p> | <p>M </p> <p>Frederick, Bewleyville; Bedford, Lawrence, Grider, Pembroke, Corydon & Huntington silt loams.</p> |
| <p>F </p> <p>Blount, Morley, Nappanee & St. Clair silt loams; Pewamo silty clay loam.</p> | <p>N </p> <p>Otwell, Haubstadt, Dubois, Robinson; Markland, McGary, Henshaw & Parke silt loams; Zipp, Montgomery & Patton silty clay loams.</p> |
| <p>G </p> <p>Fincastle, Russell, Reesville & Cope silt loams; Brookston & Kokomo silty clay loams.</p> | <p>O </p> <p>Bloomfield loamy sands; Princeton & Ayrshire sandy loams & loams.</p> |
| <p>H </p> <p>Genesee, Eel, Huntington, Fox, Ockley, Warsaw, Bartle, Elkinsville & Wheeling silt loams & loams; Westland silty clay loam; Sharkey clay.</p> | <p>P </p> <p>Alford, Muren, Ivan, Iona, Reesville, Ragsdale, Hosmer, Adler silt loams.</p> |



INDIANA SOIL SURVEY
 Purdue University
 Agricultural Experiment Station
 and
 U. S. Department of Agriculture

Figure 1. Soil regions of Indiana.

TABLE 1 - THE PROPERTIES OF THE SOIL GROUPS USED.

Soil Group Number	Properties of Soil Groups	Soil Types Included in Soil Group
1	All Bottom Lands	Eel, Genesee, Huntington, Lindsay, Sharkey, and Shoals
2	Mucks in region A	Carlisle, Edwards, Houghton, and Linwood
3	Level, poorly-drained soils of region A	Gilford, Granby, Maumee, Morocco, Newton, Runnymede, and Willvale
4	Level, well-drained soils of region A	Door, Fox, Kalamazoo, Nekoosa Oshtemo, Plainfield, Tracy, Tyner, and Warsaw
5	Region B soils in Allen County	Blount, Hoytville, Lenawee Merrill, Nappanee, and Toledo
6	Western region B soils	Ade, Darroch, Foresman, Jasper, Maumee, and Rennselaer loams and sandy loams; Onarga and Ridgeville sandy loam; Procter and Brenton; Strole silt loam
7	Sloping soils of region C	Corwin, Dana, Flanagan, Mellott, Octagon, Parr, and Sidell
8	Level soils of region C	Chalmers, Elliott, Odell, Otterbein, Raub, Romney, and Toronto
9	Mucks in region D	Carlisle, Houghton, and Linwood
10	Sandy soils in region D	Allendale, Coloma, Fox, Hillsdale, Oshtemo, Metea, Miami sandy loams and loamy sands
11	Loam and heavier soils in region D	Bremen, Brookston, Crosby, Galena, Kokomo, Miami, and Otis
12	Level light-colored soils of region E	Bethel and Crosby silt loams
13	Sloping light-colored soils of region E	Celina, Fox, Hennepin, and Miami silt loams
14	Dark-colored soils of region E	Brookston and Kokomo silty clay loams
15	Level light-colored soils of region F	Blount and Nappanee

TABLE 1 - THE PROPERTIES OF THE SOIL GROUPS USED (CONT'D)

<u>Soil Group Number</u>	<u>Properties of Soil Groups</u>	<u>Soil Types Included in Soil Group</u>
16	Sloping light-colored soils of region F	Morley and St. Clair
17	Dark-colored soils of region F	Pewamo
18	Level light-colored soils of region G	Delmar, Fincastle, Reesville silt loams
19	Sloping light-colored soils of region G	Birkbeck, Fox, Hennepin, Manlove, and Russell silt loams
20	Dark-colored soils of region G	Brookston, Cope, Kokomo, and Ragsdale
21	Sandy-textured terrace soils of region H	Elkinsville, Fox, Martinsville, and Warsaw
22	Loam and heavier-textured terrace soils of region H	Abington, Bartle, Elkinsville, Elston, Fox, Homer, Lyles, Montgomery, Ockley, Sleeth, McGary, Westland, and Wheeling
23	Level Soils of region I	Ava, Cory, Iva, and Vigo
24	Sloping soils of region I	Cincinnati, Hickory, and Parke
25	Level soils of region J	Avonberg, Cana, Clermont, Rossmoyne, and Whitcomb
26	Sloping soils of region J	Cincinnati, Hickory, Grayford, Colyer, and Jennings
27	Level soils of region K	Lawrence
28	Sloping soils of region K	Fairmount, Switzerland, and Allensville
29	Level soils of region L	Bartle, Johnsburg, Pekin, Peoga, Haubstadt, Dubois, and Tilsit
30	Sloping soils of region L	Elkinsville, Gilpin, Muskingum, Montevallo, Wellston, and Zanesville
31	Level soils of region M	Bedford, Guthrie, and Lawrence
32	Sloping soils of region M	Bewleyville, Crider, Corydon, Frederick, and Pembroke
33	Level soils of region N	Dubois, Haubstadt, Henshaw, McGary, Montgomery, Patton, Robinson, and Zipp

TABLE 1 - THE PROPERTIES OF THE SOIL GROUPS USED (CONT'D)

<u>Soil Group Number</u>	<u>Properties of Soil Groups</u>	<u>Soil Types Included in Soil Group</u>
34	Sloping Soils of region N	Markland, Parke, Negley, and Otwell
35	Soils of region O	Ayrshire, Bloomfield, and Princeton
36	Level soils of region P	Iva, Muren, Ragsdale, Reesville, and Stoy
37	Sloping soils of region P	Alford, Hosmer, and Iona

Historic Document

The soil test values for phosphate and potash were divided into five categories. The categories and their meaning are shown in Table 2.

TABLE 2 - SOIL TEST VALUE CATEGORIES FOR PHOSPHATE AND POTASH

Category	Soil Test Value Range for		Meaning in terms of fertilization
	Phosphate (P_2O_5)	Potash (K_2O)	
Very Low	0-40	0-100	Needs heavy rates
Low	41-100	101-180	Needs moderately heavy rates
Medium	101-180	181-250	Needs maintenance plus
High	181-300	251-375	Needs maintenance only
Very High	301 +	376 +	Less than maintenance until test drops

The frequency distributions of pH, phosphate tests, potash tests, and nitrogen recommendations were calculated by county, by soil group, and for the state.

The pH distribution by county is shown in Table 3 (pages 9-11). In addition, the average limestone application for each county is given in the right hand column. This was calculated by multiplying the percentage of samples in each pH category by its lime requirement and then summing these to get the average.

The percent distribution for phosphate and potash is given by county in Table 4 (pages 12-34) in a 5 by 5 arrangement giving the frequency distribution of all combinations of the phosphate and potash tests. At the bottom of each table the totals for potash in each category are given. The totals for phosphate are given in the right hand column. The overall phosphate and potash distribution for the state is shown in Table 5, page 35. The nitrogen recommendations for corn, wheat, and oats by county are given in Table 6, pages 36-37. These recommendations are based on the sample information and soil type. The average recommendation serves to show the relative need for nitrogen in one area of the state as compared with another. The actual amount to use can be more accurately determined from a knowledge of recent cropping and soil type.

The pH distribution by soil region is shown in Table 7, page 38, and by soil group in Table 8, pages 39-40. The phosphate and potash test frequency distribution are given by soil group in Table 9, pages 41-50.

The average nitrogen recommendations for corn, wheat, and oats for each soil group are shown in Table 10, page 51. These recommendations are based on the samples taken for each crop respectively.

The phosphate and potash recommendations for corn are given by county in Table 11, pages 52-53, and by soil group in Table 12, page 54. These recommendations are the weighted average calculated from all samples received. They indicate the relative need for phosphate and potash by county and by soil group.

The frequency distributions shown in this publication can serve as a guide for fertilizer use in the various parts of the state. They are a guide for fertilizer recommendations where there is no soil test information; however, in order to fertilize efficiently on any particular farm, soil testing is necessary to determine the actual status of that particular soil.

TABLE 3 - PERCENTAGE DISTRIBUTION OF pH (ACIDITY) SOIL TESTS BY COUNTY
WITH ESTIMATED AVERAGE LIME REQUIREMENT. 1962

County	pH Class Tons of Lime Needed	0.0-5.0	5.1-5.3	5.4-5.6	5.7-5.9	6.0-6.2	6.3-6.5	6.6-7.1	7.2+	*Average Lime Application Required, Tons/A.
		6	5	4	3	2	1	0	0	
Adams		0.4	2.7	6.9	10.1	19.1	20.7	33.0	7.1	1.2
Allen		0.2	2.3	6.0	13.6	21.0	21.1	26.8	9.2	1.4
Bartholomew		0.0	0.4	2.7	5.8	13.8	20.8	41.5	15.0	0.8
Benton		0.4	2.8	9.6	20.9	27.7	23.8	19.6	1.3	2.0
Blackford		0.4	0.7	5.4	7.2	15.6	22.8	43.1	4.7	1.0
Boone		0.8	3.8	9.1	15.5	22.3	20.9	26.3	1.3	1.7
Brown		5.5	14.7	12.1	11.5	13.5	12.1	24.8	5.8	2.3
Carroll		0.5	2.1	5.0	13.0	14.4	25.5	36.6	3.1	1.3
Cass		1.1	4.7	6.9	10.4	16.8	21.2	35.9	2.8	1.4
Clark		1.5	5.3	9.7	8.3	10.2	17.0	36.0	12.1	1.4
Clay		2.5	5.8	6.8	8.6	13.7	16.5	33.8	12.2	1.4
Clinton		0.3	4.7	10.3	19.2	28.7	18.9	14.8	3.1	1.9
Crawford		0.4	5.8	11.6	11.6	15.1	15.1	31.1	9.3	1.6
Daviess		0.9	5.0	7.0	9.9	14.3	23.7	31.9	7.3	1.4
Dearborn		6.2	8.5	11.5	12.2	10.4	11.3	30.0	9.7	1.9
Decatur		2.2	4.0	6.3	7.4	15.2	22.3	36.0	6.7	1.3
DeKalb		0.8	3.1	7.8	11.5	21.6	22.9	28.8	3.6	1.5
Delaware		0.3	1.6	5.6	9.6	15.0	24.9	27.5	15.5	1.2
Dubois		0.8	7.1	5.1	5.8	10.6	17.7	43.4	9.6	1.2
Elkhart		0.5	3.2	7.2	9.5	15.4	26.3	33.8	4.1	1.3
Fayette		0.4	1.3	4.8	9.6	23.7	26.3	26.8	7.0	1.3
Floyd		11.5	10.3	13.8	11.5	9.8	10.3	23.0	9.8	2.4
Fountain		1.1	5.6	9.9	13.7	17.2	21.2	26.3	5.1	1.6
Franklin		2.2	4.7	5.7	9.5	17.0	18.9	32.8	9.1	1.4
Fulton		1.4	1.7	10.1	18.2	23.0	18.6	23.0	9.1	1.8
Gibson		3.7	5.5	5.5	7.4	15.3	20.9	33.7	8.0	1.5
Grant		0.4	3.5	4.6	12.6	18.4	19.2	27.9	13.3	1.2
Greene		3.4	5.5	9.6	9.7	10.9	14.8	29.4	16.6	1.5
Hamilton		0.5	3.5	9.0	12.0	18.9	29.1	21.5	5.5	1.5
Hancock		0.2	1.6	7.2	12.2	22.2	26.0	28.1	2.5	1.5

* This is a weighted average, obtained by multiplying each percentage figure by the estimated tonnage of lime needed to raise the pH to 6.5. The tonnages used are shown under the pH figures at the top of the table.

TABLE 3 - PERCENTAGE DISTRIBUTION OF pH (ACIDITY) SOIL TESTS BY COUNTY
WITH ESTIMATED AVERAGE LIME REQUIREMENT. 1962

County	pH Class Tons of Lime Needed	0.0-5.0	5.1-5.3	5.4-5.6	5.7-5.9	6.0-6.2	6.3-6.5	6.6-7.1	7.2+	*Average Lime Application Required Tons/A.
		6	5	4	3	2	1	0	0	
Harrison		4.2	7.9	12.2	8.4	14.8	15.6	7.9	29.0	1.8
Hendricks		0.5	0.5	4.1	11.3	18.7	23.8	38.1	3.1	1.1
Henry		0.3	0.9	5.2	12.1	17.6	22.2	33.7	8.1	1.1
Howard		0.0	1.6	7.1	9.1	21.4	22.2	33.7	4.8	1.3
Huntington		0.3	2.4	5.2	11.3	19.8	24.7	30.5	5.8	1.3
Jackson		7.4	11.1	10.5	8.6	13.6	13.0	27.5	8.3	2.1
Jasper		5.8	8.6	12.3	18.2	22.2	15.2	13.1	4.6	2.4
Jay		0.0	3.8	6.6	10.3	19.2	21.1	32.9	6.1	1.4
Jefferson		3.1	8.2	10.7	6.3	13.8	9.4	35.2	13.2	1.2
Jennings		5.9	5.9	9.6	7.4	10.3	11.8	32.4	16.9	1.6
Johnson		0.2	1.2	6.3	8.4	15.6	19.3	42.2	6.8	1.1
Knox		3.0	4.0	6.7	9.5	16.5	18.6	36.0	5.8	1.4
Kosciusko		2.2	5.6	7.9	15.7	23.6	22.8	19.7	2.5	1.9
LaGrange		0.0	0.5	5.5	12.1	25.3	22.0	28.0	6.6	1.3
Lake		3.6	9.4	14.1	15.6	20.7	17.0	15.2	4.4	2.3
LaPorte		6.4	6.1	15.7	17.4	22.7	16.3	14.0	1.5	2.3
Lawrence		0.4	4.0	6.7	7.2	13.5	11.7	41.3	15.2	1.1
Madison		0.2	2.1	8.5	16.5	20.0	25.5	23.5	3.7	1.6
Marion		0.0	3.1	7.2	7.2	8.2	20.6	23.7	29.9	1.0
Marshall		3.4	7.6	13.4	13.0	23.5	22.7	15.5	0.8	2.2
Martin		1.4	17.9	8.6	7.1	9.3	15.0	31.4	9.3	1.9
Miami		1.3	2.6	6.9	14.0	21.2	22.0	28.8	3.2	1.5
Monroe		3.3	8.9	12.9	9.1	16.2	16.4	26.2	7.0	1.9
Montgomery		0.2	3.1	11.4	18.0	21.0	25.0	20.1	1.2	1.8
Morgan		2.1	3.6	9.3	9.4	16.4	20.1	29.3	9.7	1.5
Newton		1.4	1.4	9.7	12.5	17.4	21.6	28.5	7.5	1.5
Noble		1.2	2.7	9.7	14.6	21.0	21.8	23.2	5.8	1.7
Ohio		6.4	7.6	12.0	11.6	18.0	16.0	22.4	6.0	2.1
Orange		1.0	8.2	12.9	8.5	11.8	13.4	34.2	10.0	1.6
Owen		2.0	8.0	7.7	7.7	13.0	12.4	36.1	13.0	1.4
Parke		0.4	4.0	5.6	10.8	14.5	17.7	34.9	12.0	1.2

* This is a weighted average, obtained by multiplying each percentage figure by the estimated tonnage of lime needed to raise the pH to 6.5. The tonnages used are shown under the pH figures at the top of the table.

TABLE 3 - PERCENTAGE DISTRIBUTION OF pH (ACIDITY) SOIL TESTS BY COUNTY
WITH ESTIMATED AVERAGE LIME REQUIREMENT. 1962

County	pH Class Tons of Lime Needed	*Average Lime Application Required Tons/A.							
		0.0-5.0 6	5.1-5.3 5	5.4-5.6 4	5.7-5.9 3	6.0-6.2 2	6.3-6.5 1	6.6-7.1 0	7.2+ 0
Perry	3.3	14.9	11.6	13.4	9.4	16.7	24.3	6.5	2.2
Pike	2.8	9.1	10.2	6.3	15.3	13.1	30.7	12.5	1.7
Porter	2.3	3.2	11.9	16.1	20.3	23.2	21.9	1.3	1.9
Posey	2.3	6.4	10.0	5.9	10.9	18.2	33.2	13.2	1.4
Pulaski	8.4	8.4	10.8	15.3	13.9	16.0	25.1	2.1	2.2
Putnam	0.6	2.3	5.6	6.2	11.7	16.1	42.2	15.2	0.9
Randolph	0.1	11.1	4.2	11.9	19.0	21.4	36.5	5.7	1.7
Ripley	8.3	6.5	4.2	6.0	9.0	12.0	39.5	14.5	1.5
Rush	0.0	0.9	3.0	8.6	18.7	21.1	41.8	6.0	1.0
St. Joseph	0.0	6.4	9.1	13.8	20.9	16.1	23.2	6.1	1.9
Scott	1.6	4.9	4.9	9.8	8.2	8.2	41.0	21.3	1.1
Shelby	0.0	0.4	1.8	5.8	13.9	23.7	44.1	10.3	0.8
Spencer	4.2	7.3	6.7	11.2	14.0	20.1	30.2	6.4	1.5
Starke	13.8	8.8	15.4	18.2	22.9	11.6	8.3	1.1	3.0
Steuben	0.8	2.4	8.5	16.1	22.6	16.9	26.2	6.5	1.6
Sullivan	3.2	10.9	9.7	9.7	12.6	17.4	28.3	8.1	1.8
Switzerland	6.4	13.0	11.7	13.5	10.2	16.3	21.7	7.1	2.2
Tippecanoe	0.7	4.6	12.4	16.1	22.8	22.9	14.8	5.8	1.9
Tipton	0.0	0.0	11.0	13.5	22.6	23.2	20.0	9.7	1.5
Union	0.0	0.0	2.2	7.8	31.1	21.1	33.3	4.4	1.2
Vanderburgh	6.5	6.7	6.8	13.5	14.3	19.1	5.4	27.7	1.9
Vermillion	0.9	5.9	14.9	19.9	23.0	15.8	15.0	4.7	1.6
Vigo	0.4	5.4	4.1	8.3	10.8	22.0	40.2	8.7	1.1
Wabash	1.6	2.3	7.7	12.4	23.7	22.1	23.9	6.1	1.6
Warren	0.0	2.8	8.8	11.8	21.9	30.4	19.6	4.8	1.6
Warrick	3.3	9.5	11.2	12.0	11.6	16.6	33.2	2.5	1.9
Washington	3.9	7.1	5.8	8.1	8.8	11.7	41.2	13.3	1.4
Wayne	1.6	3.1	4.1	9.3	13.5	15.0	44.0	9.3	1.1
Wells	0.0	2.5	7.5	13.8	22.5	25.0	25.0	3.8	1.5
White	3.1	5.6	9.8	14.8	21.1	16.5	23.2	5.8	1.9
Whitley	0.3	3.2	10.0	13.5	20.9	24.0	24.8	3.5	1.6

* This is a weighted average, obtained by multiplying each percentage figure by the estimated tonnage of lime needed to raise the pH to 6.5. The tonnages used are shown under the pH figures at the top of the table.

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH SOIL TEST BY COUNTY. 1962

ADAMS COUNTY - 564 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	0.4	4.1	1.6	----	----	6.1
41 - 100	----	9.2	5.7	1.1	0.2	16.2
101 - 180	----	5.9	7.1	1.2	0.4	14.5
181 - 300	----	4.6	11.2	3.5	1.4	20.7
301 +	----	5.1	14.2	15.6	7.6	42.5
TOTALS FOR POTASH	0.4	28.9	39.7	21.4	9.6	100.0

ALLEN COUNTY - 568 Samples

0 - 40	0.4	5.6	0.7	0.2	----	6.9
41 - 100	0.4	6.2	3.0	0.7	----	10.3
101 - 180	----	7.9	8.3	2.5	----	18.7
181 - 300	0.4	6.5	7.4	4.4	0.5	19.2
301 +	0.4	7.7	14.4	17.4	5.1	45.0
TOTALS FOR POTASH	1.6	33.9	33.8	25.2	5.6	100.1

BARTHOLOMEW COUNTY - 260 Samples

0 - 40	4.3	7.7	0.8	0.4	----	13.2
41 - 100	6.2	20.8	6.2	1.2	----	34.4
101 - 180	1.2	14.2	5.4	3.5	0.8	25.1
181 - 300	----	3.8	3.1	1.5	0.4	8.8
301 +	----	6.9	4.2	3.8	3.5	18.4
TOTALS FOR POTASH	11.7	53.4	19.7	10.4	4.7	99.9

BENTON COUNTY - 1752 Samples

0 - 40	0.8	8.6	1.6	0.8	0.2	12.0
41 - 100	1.7	16.2	5.1	1.2	0.3	24.6
101 - 180	1.3	14.0	4.2	1.8	0.1	21.4
181 - 300	0.7	14.6	5.0	1.8	0.2	22.3
301 +	1.5	10.8	4.3	2.8	0.8	20.2
TOTALS FOR POTASH	6.1	64.2	20.2	8.4	1.6	100.4

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
SOIL TEST BY COUNTY. 1962

BLACKFORD COUNTY - 276 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	----	7.2	1.8	0.7	0.7	10.4
41 - 100	----	14.5	5.4	1.1	---	21.0
101 - 180	----	7.2	9.1	1.8	---	18.1
181 - 300	----	2.2	5.4	3.3	1.8	12.7
301 +	----	5.4	9.1	15.2	8.0	37.7
TOTALS FOR POTASH	----	36.5	30.8	22.1	10.5	99.9

BOONE COUNTY - 273 Samples

0 - 40	2.4	7.2	1.8	0.3	---	11.7
41 - 100	2.1	20.1	2.4	0.5	---	25.1
101 - 180	0.3	15.8	5.1	2.1	---	23.3
181 - 300	0.3	9.7	4.6	1.1	0.3	16.0
301 +	0.5	11.3	7.0	3.8	1.3	23.9
TOTALS FOR POTASH	5.6	64.1	20.9	7.8	1.6	100.0

BROWN COUNTY - 347 Samples

0 - 40	11.2	42.4	13.3	3.5	0.9	71.3
41 - 100	2.0	7.2	4.9	2.3	0.6	17.0
101 - 180	0.3	2.0	0.9	1.1	---	4.3
181 - 300	0.3	1.1	1.1	1.4	0.6	4.5
301 +	----	0.3	----	1.4	1.1	2.8
TOTALS FOR POTASH	13.8	53.0	20.2	9.7	3.2	99.9

CARROLL COUNTY - 424 Samples

0 - 40	1.9	4.0	0.9	0.2	---	7.0
41 - 100	0.5	13.4	1.2	0.9	0.2	16.2
101 - 180	0.2	14.6	3.5	0.7	---	19.0
181 - 300	0.2	12.7	4.2	1.9	---	19.0
301 +	0.7	19.8	11.3	5.0	1.7	38.5
TOTALS FOR POTASH	3.5	64.5	21.1	8.7	1.9	99.7

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH SOIL TESTS BY COUNTY. 1962

CASS COUNTY - 844 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	2.0	4.5	1.0	----	----	7.5
41 - 100	4.0	14.1	3.7	0.2	----	22.0
101 - 180	2.7	14.2	4.5	1.4	0.2	23.0
181 - 300	1.9	11.0	3.7	2.5	0.4	19.5
301 +	1.2	14.3	5.8	4.1	2.4	27.8
TOTALS FOR POTASH	11.8	58.1	18.7	8.2	3.0	99.8

CLARK COUNTY - 206 Samples

0 - 40	8.3	18.0	8.7	3.4	1.5	39.9
41 - 100	7.8	11.7	7.3	3.4	1.0	31.2
101 - 180	1.0	1.9	2.9	2.9	----	8.7
181 - 300	----	3.9	1.5	1.5	0.5	7.4
301 +	0.5	1.9	2.4	3.4	4.9	13.1
TOTALS FOR POTASH	17.6	37.4	22.8	14.6	7.9	100.3

CLAY COUNTY - 278 Samples

0 - 40	7.2	16.2	1.8	----	----	25.2
41 - 100	6.5	20.5	2.2	0.4	----	29.6
101 - 180	2.5	14.8	1.4	0.7	0.7	20.1
181 - 300	0.4	7.9	3.4	0.7	1.4	13.8
301 +	----	3.4	4.0	2.2	1.4	11.0
TOTALS FOR POTASH	16.6	62.8	12.8	4.0	3.5	99.7

CLINTON COUNTY - 359 Samples

0 - 40	1.7	1.4	----	----	----	3.1
41 - 100	3.3	15.3	1.7	----	----	20.3
101 - 180	0.3	13.9	5.8	1.9	0.3	22.2
181 - 300	0.3	11.7	5.6	2.8	0.3	20.7
301 +	0.6	14.5	8.9	6.1	3.6	33.7
TOTALS FOR POTASH	6.2	56.8	22.0	10.8	4.2	100.0

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
SOIL TEST BY COUNTY. 1962

CRAWFORD COUNTY - 225 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	13.3	54.6	13.3	1.8	0.4	83.4
41 - 100	0.4	5.8	1.3	0.4	0.4	8.3
101 - 180	----	0.4	1.8	0.9	0.4	3.5
181 - 300	----	----	0.4	0.4	---	0.8
301 +	----	0.4	----	0.4	2.7	3.5
TOTALS FOR POTASH	13.7	61.2	16.8	3.9	3.9	99.6

DAVISS COUNTY - 342 Samples

0 - 40	5.6	17.8	5.0	0.9	0.3	29.6
41 - 100	5.8	17.3	3.5	0.3	0.3	27.2
101 - 180	1.5	11.4	1.8	0.3	0.3	15.3
181 - 300	1.2	5.6	3.0	1.2	0.3	11.3
301 +	0.9	7.0	3.1	3.0	3.0	17.0
TOTALS FOR POTASH	15.0	59.1	16.5	5.7	4.2	100.4

DEARBORN COUNTY - 433 Samples

0 - 40	4.7	20.3	4.2	0.7	1.2	31.0
41 - 100	3.0	12.7	5.1	1.8	1.4	24.0
101 - 180	1.6	5.5	2.1	1.4	0.7	11.3
181 - 300	0.2	3.7	1.4	2.5	0.5	8.3
301 +	0.5	7.4	5.3	7.9	4.4	25.5
TOTALS FOR POTASH	9.9	49.6	18.1	14.3	8.2	100.1

DECATUR COUNTY - 1390 Samples

0 - 40	5.0	14.7	2.3	0.4	0.1	22.5
41 - 100	3.7	21.4	4.9	1.0	0.2	31.2
101 - 180	1.6	11.7	7.3	1.9	0.4	22.9
181 - 300	0.1	5.8	3.7	2.2	0.3	12.1
301 +	0.1	2.9	4.6	2.9	0.6	11.1
TOTALS FOR POTASH	10.5	56.5	22.8	8.4	1.6	99.8

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH SOIL TESTS BY COUNTY. 1962

DEKALB COUNTY - 645 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	0.2	3.9	2.0	0.3	----	6.4
41 - 100	0.6	13.3	8.5	3.1	----	25.5
101 - 180	0.3	10.5	8.2	3.3	----	22.3
181 - 300	0.3	6.4	7.3	3.7	1.2	18.9
301 +	0.6	7.4	7.9	7.4	3.4	26.7
TOTALS FOR POTASH	2.0	41.5	33.9	17.8	4.6	99.8

DELAWARE COUNTY - 374 Samples

0 - 40	1.1	6.7	1.3	0.5	0.3	9.9
41 - 100	----	14.7	5.3	2.1	----	22.1
101 - 180	0.3	4.8	6.1	4.0	----	15.2
181 - 300	0.3	3.5	6.4	4.0	1.1	15.3
301 +	----	6.4	10.4	15.2	5.3	37.3
TOTALS FOR POTASH	1.7	36.1	29.5	25.8	6.7	99.8

DUBOIS COUNTY - 396 Samples

0 - 40	5.8	30.8	4.8	1.0	----	42.4
41 - 100	2.3	14.6	3.5	1.8	----	22.2
101 - 180	1.0	7.3	2.3	1.3	1.0	12.9
181 - 300	0.5	4.8	2.3	1.3	0.5	9.4
301 +	----	3.0	3.5	2.8	3.8	13.1
TOTALS FOR POTASH	9.6	60.5	16.4	8.2	5.3	100.0

ELKHART COUNTY - 651 Samples

0 - 40	2.0	1.8	0.5	----	----	4.3
41 - 100	1.2	12.1	1.4	0.8	0.2	15.5
101 - 180	2.6	13.5	6.5	1.8	----	24.4
181 - 300	1.4	10.0	8.8	4.5	0.3	25.0
301 +	0.2	9.4	9.1	8.0	4.1	30.8
TOTALS FOR POTASH	7.4	46.8	26.3	15.1	4.6	100.2

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH SOIL TEST BY COUNTY. 1962

FAYETTE COUNTY - 228 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	1.8	14.0	3.1	0.4	---	19.3
41 - 100	0.9	14.9	6.6	2.2	---	24.6
101 - 180	0.9	16.2	5.3	1.3	---	23.7
181 - 300	0.4	4.8	2.6	3.1	0.4	11.3
301 +	1.3	6.6	4.8	4.8	3.5	21.0
TOTALS FOR POTASH	5.3	56.5	22.4	11.8	3.9	99.9

FLOYD COUNTY - 174 Samples

0 - 40	0.6	37.9	10.9	9.2	1.1	59.7
41 - 100	0.6	6.9	5.2	4.6	1.1	18.4
101 - 180	----	1.7	1.1	4.0	1.7	8.5
181 - 300	----	----	0.6	----	2.3	2.9
301 +	----	----	0.6	2.3	7.5	10.4
TOTALS FOR POTASH	1.2	46.5	18.4	20.1	13.7	99.9

FOUNTAIN COUNTY - 373 Samples

0 - 40	4.0	9.7	0.8	0.3	---	14.8
41 - 100	5.1	17.7	6.7	1.3	0.3	31.1
101 - 180	1.1	12.3	5.6	2.7	0.3	22.0
181 - 300	1.1	6.7	5.1	1.6	0.8	15.3
301 +	0.8	3.8	7.0	3.2	2.1	16.9
TOTALS FOR POTASH	12.1	50.2	25.2	9.1	3.5	100.1

FRANKLIN COUNTY - 317 Samples

0 - 40	1.9	7.9	3.5	6.9	2.8	23.0
41 - 100	2.8	15.1	2.8	5.0	2.2	27.9
101 - 180	0.9	10.4	3.8	4.1	---	19.2
181 - 300	----	6.6	3.8	3.8	---	14.2
301 +	0.3	2.2	4.1	5.4	3.5	15.5
TOTALS FOR POTASH	5.9	42.2	18.0	25.2	8.5	99.8

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH SOIL TESTS BY COUNTY. 1962

FULTON COUNTY - 296 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	0.7	1.4	----	----	----	2.1
41 - 100	4.7	7.8	2.0	0.7	----	15.2
101 - 180	3.0	10.1	5.7	1.0	0.7	20.5
181 - 300	2.7	11.1	4.7	3.7	2.4	24.6
301 +	0.7	10.8	8.1	9.5	8.4	37.5
TOTALS FOR POTASH	11.8	41.2	20.5	14.9	11.5	99.9

GIBSON COUNTY - 163 Samples

0 - 40	4.9	11.0	1.2	----	----	17.1
41 - 100	12.3	14.1	1.2	1.2	----	28.8
101 - 180	1.8	11.7	1.2	----	0.6	15.3
181 - 300	2.5	11.7	1.8	0.6	----	16.6
301 +	----	14.1	4.9	1.2	1.8	22.0
TOTALS FOR POTASH	21.5	62.6	10.3	3.0	2.4	99.8

GRANT COUNTY - 452 Samples

0 - 40	0.2	8.2	1.1	0.4	----	9.9
41 - 100	0.4	12.2	6.9	2.9	0.4	22.8
101 - 180	0.4	8.8	6.2	2.2	0.7	18.3
181 - 300	0.2	4.6	7.5	5.8	0.2	18.3
301 +	0.9	4.6	10.4	7.1	7.5	30.5
TOTALS FOR POTASH	2.1	38.4	32.1	18.4	8.8	99.8

GREENE COUNTY - 741 Samples

0 - 40	8.9	27.1	8.9	1.9	0.8	47.6
41 - 100	4.7	9.4	2.0	0.7	0.3	17.1
101 - 180	1.6	4.5	1.3	0.8	0.5	8.7
181 - 300	2.0	5.1	1.8	0.4	0.1	9.4
301 +	1.6	5.8	4.5	3.5	1.6	17.0
TOTALS FOR POTASH	18.8	51.9	18.5	7.3	3.3	99.8

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
SOIL TESTS BY COUNTY. 1962

HAMILTON COUNTY - 567 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	3.2	9.0	0.9	0.7	---	13.8
41 - 100	2.5	18.7	3.2	0.7	0.4	25.5
101 - 180	1.2	14.3	7.9	2.1	0.4	25.9
181 - 300	0.2	7.1	4.6	1.6	0.5	14.0
301 +	0.5	9.7	4.4	2.8	3.5	20.9
TOTALS FOR POTASH	7.6	58.8	21.0	7.9	4.8	100.1

HANCOCK COUNTY - 638 Samples

0 - 40	2.5	7.5	0.5	----	0.2	10.7
41 - 100	0.6	19.7	5.0	1.3	---	26.6
101 - 180	0.3	13.8	6.3	1.4	---	21.8
181 - 300	0.2	6.6	6.4	2.4	---	15.6
301 +	0.2	7.8	9.4	6.4	1.6	25.4
TOTALS FOR POTASH	3.8	55.4	27.6	11.5	1.8	100.1

HARRISON COUNTY - 694 Samples

0 - 40	4.0	33.4	15.7	7.6	1.0	61.7
41 - 100	0.4	9.7	5.8	3.7	0.9	20.5
101 - 180	----	1.3	2.6	3.0	1.2	8.1
181 - 300	----	0.6	0.6	1.2	0.7	3.1
301 +	----	0.3	0.3	1.2	4.9	6.7
TOTALS FOR POTASH	4.4	45.3	25.0	16.7	8.7	100.1

HENDRICKS COUNTY - 391 Samples

0 - 40	3.1	7.9	----	----	---	11.0
41 - 100	4.1	28.1	3.1	0.5	---	35.8
101 - 180	0.5	16.9	3.1	1.5	---	22.0
181 - 300	0.3	9.0	3.1	2.3	---	14.7
301 +	0.3	7.4	5.1	3.3	0.5	16.6
TOTALS FOR POTASH	8.3	69.3	14.4	7.6	0.5	100.1

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH SOIL TESTS BY COUNTY. 1962

HENRY COUNTY - 347 Samples

Phosphosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	0.6	3.7	1.2	----	----	5.5
41 - 100	0.6	14.4	7.8	1.2	----	24.0
101 - 180	0.3	10.4	11.8	2.0	1.2	25.7
181 - 300	1.2	8.4	6.9	3.5	0.9	20.9
301 +	1.2	4.9	9.2	6.1	2.9	24.3
TOTALS FOR POTASH	3.9	41.8	36.9	12.8	5.0	100.4

HOWARD COUNTY - 252 Samples

0 - 40	----	2.0	----	----	----	2.0
41 - 100	0.8	11.5	2.4	0.4	----	15.1
101 - 180	0.4	10.3	3.6	1.6	----	15.9
181 - 300	0.4	11.5	5.6	2.4	----	19.9
301 +	0.4	20.6	13.9	8.3	4.0	47.2
TOTALS FOR POTASH	2.0	55.9	25.5	12.7	4.0	100.1

HUNTINGTON COUNTY - 328 Samples

0 - 40	----	5.8	----	0.9	----	6.7
41 - 100	0.3	16.2	4.3	1.5	----	22.3
101 - 180	0.3	12.8	6.1	2.1	----	21.3
181 - 300	----	7.3	7.6	4.3	----	19.2
301 +	----	7.3	12.5	6.7	3.7	30.2
TOTALS FOR POTASH	0.6	49.4	30.5	15.5	3.7	99.7

JACKSON COUNTY - 639 Samples

0 - 40	17.5	28.8	4.4	1.1	0.9	52.7
41 - 100	5.6	13.1	2.5	0.5	0.5	22.2
101 - 180	1.7	7.0	1.4	1.1	0.3	11.5
181 - 300	0.5	4.9	1.4	0.5	0.2	7.5
301 +	0.5	1.4	1.4	1.7	1.1	6.1
TOTALS FOR POTASH	25.8	55.2	11.1	4.9	3.0	100.0

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH SOIL TESTS BY COUNTY. 1962

JASPER COUNTY - 1194 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	0.4	1.2	0.3	0.1	---	2.0
41 - 100	2.2	10.0	4.7	0.8	0.1	17.8
101 - 180	2.9	14.6	5.7	1.8	0.4	25.4
181 - 300	1.3	17.2	6.8	2.3	0.7	28.3
301 +	1.0	13.4	6.7	4.0	1.7	26.8
TOTALS FOR POTASH	7.8	56.4	24.2	9.0	2.9	100.3

JAY COUNTY - 213 Samples

0 - 40	----	8.5	1.4	----	---	9.9
41 - 100	----	12.7	8.0	2.8	0.5	24.0
101 - 180	----	7.0	8.9	4.7	1.4	22.0
181 - 300	----	4.7	8.5	8.9	0.5	22.6
301 +	0.5	0.9	7.0	9.4	3.8	21.6
TOTALS FOR POTASH	0.5	33.8	33.8	25.8	6.2	100.1

JEFFERSON COUNTY - 159 Samples

0 - 40	2.5	15.1	3.8	1.9	---	23.3
41 - 100	10.7	8.8	5.7	2.5	---	27.7
101 - 180	2.5	5.7	0.6	3.1	---	11.9
181 - 300	1.3	1.3	1.9	2.5	1.3	8.3
301 +	----	1.9	4.4	6.3	16.4	29.0
TOTALS FOR POTASH	17.0	32.8	16.4	16.3	17.7	100.2

JENNINGS COUNTY - 136 Samples

0 - 40	16.9	28.7	4.4	0.7	---	50.7
41 - 100	14.0	7.4	2.9	1.5	0.7	26.5
101 - 180	2.9	5.1	3.7	----	---	11.7
181 - 300	1.5	2.9	----	0.7	0.7	5.8
301 +	0.7	2.2	----	1.5	0.7	5.1
TOTALS FOR POTASH	36.0	46.3	11.0	4.4	2.1	99.8

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH SOIL TESTS BY COUNTY. 1962

JOHNSON COUNTY - 429 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	2.1	5.1	0.2	0.7	----	8.1
41 - 100	0.9	16.3	4.2	1.6	----	23.0
101 - 180	0.9	17.0	4.4	0.5	----	22.8
181 - 300	----	11.9	5.4	3.3	0.2	20.8
301 +	0.2	11.0	7.9	4.4	1.6	25.1
TOTALS FOR POTASH	4.1	61.3	22.1	10.5	1.8	100.8

KNOX COUNTY - 328 Samples

0 - 40	2.1	7.6	1.2	0.6	----	11.5
41 - 100	2.1	16.2	5.2	0.6	0.3	24.4
101 - 180	1.2	15.9	5.5	1.8	0.3	24.7
181 - 300	1.5	9.5	4.6	0.9	0.3	16.8
301 +	0.6	4.6	6.4	5.8	5.2	22.6
TOTALS FOR POTASH	7.5	53.8	22.9	9.7	6.1	100.0

KOSCIUSKO COUNTY - 356 Samples

0 - 40	0.8	2.2	0.3	----	----	3.3
41 - 100	2.8	11.6	1.4	0.3	----	19.1
101 - 180	0.6	17.4	6.0	1.7	0.3	26.0
181 - 300	2.0	11.0	7.3	3.1	----	23.4
301 +	0.3	7.0	12.6	5.6	2.8	28.3
TOTALS FOR POTASH	6.5	52.2	27.6	10.7	3.1	100.1

LAGRANGE COUNTY - 182 Samples

0 - 40	1.6	2.2	----	----	----	3.8
41 - 100	2.7	18.1	3.3	1.1	0.5	25.7
101 - 180	1.6	15.4	7.1	3.3	----	27.4
181 - 300	1.6	7.7	7.7	5.5	0.5	23.0
301 +	0.5	5.5	5.5	4.4	3.8	19.7
TOTALS FOR POTASH	8.0	48.9	23.6	14.3	4.8	99.6

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
SOIL TESTS BY COUNTY. 1962

LAKE COUNTY - 796 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	----	5.8	0.8	0.6	----	7.2
41 - 100	0.5	8.3	4.6	1.0	0.8	15.2
101 - 180	0.5	6.2	6.5	3.0	1.1	17.3
181 - 300	0.6	8.9	7.3	6.0	0.9	23.7
301 +	0.9	9.9	10.6	9.4	5.8	36.6
TOTALS FOR POTASH	2.5	39.1	29.8	20.0	8.6	100.0

LAPORTE COUNTY - 344 Samples

0 - 40	0.3	2.3	1.2	----	----	3.8
41 - 100	2.3	7.0	2.3	----	----	11.6
101 - 180	0.9	7.6	8.1	1.5	----	18.1
181 - 300	1.5	10.2	10.8	7.3	1.2	31.0
301 +	0.9	9.3	13.4	8.7	3.5	35.8
TOTALS FOR POTASH	5.9	36.4	35.8	17.5	4.7	100.3

LAWRENCE COUNTY - 223 Samples

0 - 40	12.6	28.7	14.3	5.8	1.8	63.2
41 - 100	2.7	6.7	4.9	3.1	----	17.4
101 - 180	0.9	4.5	1.3	3.1	0.9	10.7
181 - 300	----	1.8	2.2	0.4	0.9	5.3
301 +	----	----	0.4	0.4	2.2	3.0
TOTALS FOR POTASH	16.2	41.7	23.1	12.8	5.8	99.6

MADISON COUNTY - 840 Samples

0 - 40	0.4	4.3	0.5	0.2	----	5.4
41 - 100	0.4	14.6	4.2	1.1	0.2	20.5
101 - 180	0.1	11.1	7.3	2.5	0.5	21.5
181 - 300	0.1	8.1	5.1	2.7	0.2	16.2
301 +	0.6	12.7	11.9	8.0	3.2	36.4
TOTALS FOR POTASH	1.6	50.8	29.0	14.5	4.1	100.0

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH SOIL TESTS BY COUNTY. 1962

MARION COUNTY - 97 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	3.1	2.1	----	1.0	----	6.2
41 - 100	4.1	6.2	----	1.0	1.0	12.3
101 - 180	4.1	10.3	4.1	3.1	1.0	22.6
181 - 300	----	8.2	3.1	1.0	----	12.3
301 +	8.2	15.5	8.2	1.0	13.4	46.3
TOTALS FOR POTASH	19.5	42.3	15.4	7.1	15.4	99.7

MARSHALL COUNTY - 238 Samples

0 - 40	1.3	3.4	0.8	0.4	0.4	6.3
41 - 100	0.8	8.0	1.3	1.3	0.4	11.8
101 - 180	0.8	16.0	6.3	2.1	0.4	25.6
181 - 300	1.3	13.0	7.6	2.1	0.8	24.8
301 +	1.3	10.5	7.1	8.4	4.2	31.5
TOTALS FOR POTASH	5.5	50.9	23.1	14.3	6.2	100.0

MARTIN COUNTY - 140 Samples

0 - 40	4.3	34.3	9.3	4.3	1.4	53.6
41 - 100	0.7	7.9	2.1	1.4	0.7	12.8
101 - 180	0.7	7.9	4.3	----	1.4	14.3
181 - 300	0.7	3.6	5.7	2.1	0.7	12.8
301 +	----	2.1	2.1	0.7	1.4	6.3
TOTALS FOR POTASH	6.4	55.8	23.5	8.5	5.6	99.8

MIAMI COUNTY - 378 Samples

0 - 40	1.6	4.8	1.6	0.3	0.3	8.6
41 - 100	2.6	13.2	3.2	0.3	0.3	19.6
101 - 180	1.6	11.9	4.5	2.6	0.3	20.9
181 - 300	0.3	8.7	5.6	3.0	0.3	17.9
301 +	0.5	11.4	7.7	9.8	4.0	33.4
TOTALS FOR POTASH	6.6	50.4	22.6	16.0	5.2	100.4

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
SOIL TESTS BY COUNTY. 1962

MONROE COUNTY - 427 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	12.9	45.2	12.4	6.1	0.7	77.3
41 - 100	1.4	7.3	2.3	1.9	1.2	14.3
101 - 180	0.2	0.9	0.9	0.5	1.2	3.7
181 - 300	----	0.9	0.2	0.5	0.2	1.8
301 +	----	0.5	----	0.5	2.1	3.1
TOTALS FOR POTASH	14.5	54.8	15.8	9.5	5.4	100.0

MONTGOMERY COUNTY - 577 Samples

0 - 40	1.4	8.0	1.4	0.2	0.2	11.2
41 - 100	2.4	15.6	2.9	1.6	---	22.5
101 - 180	0.3	12.1	4.3	2.3	0.2	19.2
181 - 300	0.5	10.9	4.7	2.9	0.3	19.3
301 +	0.5	11.8	6.6	4.9	4.0	27.8
TOTALS FOR POTASH	5.1	58.4	19.9	11.9	4.7	100.0

MORGAN COUNTY - 959 Samples

0 - 40	4.1	16.5	2.6	0.7	0.2	24.1
41 - 100	4.8	19.4	4.5	0.9	0.2	29.8
101 - 180	0.6	12.1	3.5	1.5	0.1	17.8
181 - 300	0.1	7.1	2.2	0.8	0.1	10.3
301 +	1.1	6.8	5.4	2.1	2.5	17.9
TOTALS FOR POTASH	10.7	61.9	18.2	6.0	3.1	99.9

NEWTON COUNTY - 361 Samples

0 - 40	0.8	1.7	0.3	----	---	2.8
41 - 100	1.7	12.5	3.6	0.3	---	18.1
101 - 180	2.5	14.4	4.2	2.2	0.3	23.6
181 - 300	1.7	14.7	6.6	1.9	1.4	26.3
301 +	1.9	14.1	7.2	4.4	1.7	29.3
TOTALS FOR POTASH	8.6	57.4	21.9	8.8	3.4	100.1

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH SOIL TESTS BY COUNTY. 1962

NOBLE COUNTY - 514 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	1.4	8.2	1.8	0.8	0.2	12.4
41 - 100	2.5	16.5	4.1	3.1	0.2	26.4
101 - 180	0.6	11.1	5.8	2.5	0.2	20.2
181 - 300	0.4	10.1	5.3	3.1	0.4	19.3
301 +	----	5.4	6.4	7.6	2.3	21.7
TOTALS FOR POTASH	4.9	51.3	23.4	17.1	3.3	100.0

OHIO COUNTY - 250 Samples

0 - 40	2.8	8.8	0.4	----	----	12.0
41 - 100	1.6	12.4	2.4	2.0	----	18.4
101 - 180	----	10.4	4.4	2.4	----	17.2
181 - 300	----	2.8	4.4	2.4	----	9.6
301 +	----	12.8	12.0	5.2	12.8	42.8
TOTALS FOR POTASH	4.4	47.2	23.6	12.0	12.8	100.0

ORANGE COUNTY - 389 Samples

0 - 40	6.9	34.7	17.2	6.2	1.0	66.0
41 - 100	0.5	6.7	5.7	3.3	0.3	16.5
101 - 180	----	1.8	2.1	2.6	0.8	7.3
181 - 300	----	0.8	1.3	1.5	0.8	4.4
301 +	----	0.5	1.5	0.5	3.3	5.8
TOTALS FOR POTASH	7.4	44.5	27.8	14.1	6.2	100.0

OWEN COUNTY - 299 Samples

0 - 40	11.0	38.8	8.0	1.3	0.7	59.8
41 - 100	2.7	12.7	2.0	0.3	1.0	18.7
101 - 180	1.3	6.0	3.3	0.3	0.7	11.6
181 - 300	----	1.7	1.3	0.7	1.3	5.0
301 +	----	1.0	1.3	1.0	1.3	4.6
TOTALS FOR POTASH	15.0	60.2	15.9	3.6	5.0	99.7

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
SOIL TESTS BY COUNTY. 1962

PARKE COUNTY - 249 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	7.2	10.8	2.0	0.4	0.4	20.8
41 - 100	4.4	22.9	3.6	2.0	---	32.9
101 - 180	3.2	8.4	5.2	1.6	---	18.4
181 - 300	2.0	4.4	3.6	1.6	0.4	12.0
301 +	0.8	5.6	4.4	4.0	0.8	15.6
TOTALS FOR POTASH	17.6	52.1	18.8	9.6	1.6	99.7

PERRY COUNTY - 276 Samples

0 - 40	9.4	42.4	12.3	5.8	0.7	70.6
41 - 100	0.4	6.2	3.3	2.9	1.1	3.9
101 - 180	----	3.3	1.4	0.7	0.4	5.8
181 - 300	----	----	0.7	0.4	0.7	1.8
301 +	----	1.4	1.8	1.8	2.9	7.9
TOTALS FOR POTASH	9.8	53.3	19.5	11.6	5.8	100.0

PIKE COUNTY - 176 Samples

0 - 40	10.2	28.4	3.4	1.1	---	43.1
41 - 100	9.7	19.3	2.3	0.6	0.6	32.5
101 - 180	1.1	8.5	1.7	----	---	11.3
181 - 300	----	5.7	0.6	----	---	6.3
301 +	0.6	0.6	2.3	1.7	1.7	6.9
TOTALS FOR POTASH	21.6	62.5	10.3	3.4	2.3	100.1

PORTER COUNTY - 311 Samples

0 - 40	0.3	6.8	2.3	----	---	9.4
41 - 100	0.6	9.3	4.5	1.0	---	15.4
101 - 180	0.6	8.4	5.8	2.6	0.6	18.0
181 - 300	1.3	11.6	7.1	4.8	0.3	25.1
301 +	1.0	12.5	8.7	8.7	1.3	32.2
TOTALS FOR POTASH	3.8	48.6	28.4	17.1	2.2	100.1

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
SOIL TESTS BY COUNTY. 1962

POSEY COUNTY - 220 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	1.8	12.3	1.4	----	----	15.5
41 - 100	3.2	15.0	6.8	2.3	----	27.3
101 - 180	1.8	9.5	4.1	2.7	----	18.1
181 - 300	0.9	8.6	0.5	1.8	0.5	12.3
301 +	0.5	13.2	7.3	3.6	2.3	26.9
TOTALS FOR POTASH	8.2	58.6	20.1	10.4	2.8	100.1

PULASKI COUNTY - 287 Samples

0 - 40	0.3	----	----	----	----	0.3
41 - 100	2.8	5.2	0.7	0.3	----	9.0
101 - 180	4.9	12.9	2.8	1.0	0.7	22.3
181 - 300	8.4	14.6	5.6	2.1	0.7	31.4
301 +	4.9	13.2	9.1	6.6	3.1	36.9
TOTALS FOR POTASH	21.3	45.9	18.2	10.0	4.5	99.9

PUTNAM COUNTY - 341 Samples

0 - 40	2.9	20.5	1.8	0.6	----	25.8
41 - 100	1.8	22.0	5.6	1.5	----	30.9
101 - 180	1.2	11.1	5.6	2.1	----	20.0
181 - 300	0.3	3.2	2.6	0.9	0.6	7.6
301 +	0.6	5.0	5.9	2.3	2.1	15.9
TOTALS FOR POTASH	6.8	61.8	21.5	7.4	2.7	100.2

RANDOLPH COUNTY - 756 Samples

0 - 40	1.6	9.3	1.2	----	0.1	12.2
41 - 100	0.4	24.2	5.6	0.1	0.1	30.4
101 - 180	0.1	14.2	7.7	1.5	----	23.5
181 - 300	----	6.2	7.7	3.3	0.3	17.5
301 +	----	5.2	5.3	4.5	1.6	16.6
TOTALS FOR POTASH	2.1	59.1	27.5	9.4	2.1	100.2

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
SOIL TESTS BY COUNTY. 1962

RIPLEY COUNTY - 433 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	9.5	21.7	3.7	1.6	---	36.5
41 - 100	9.7	14.1	4.2	1.4	0.9	30.3
101 - 180	1.2	8.5	2.8	1.4	0.5	14.4
181 - 300	1.2	5.1	3.0	1.4	0.2	10.9
301 +	----	1.8	1.8	2.1	2.3	8.0
TOTALS FOR POTASH	21.6	51.2	15.5	7.9	3.9	100.1

RUSH COUNTY - 788 Samples

0 - 40	1.8	5.8	0.9	0.1	0.1	8.7
41 - 100	0.4	19.5	6.2	1.0	0.1	27.2
101 - 180	1.1	12.4	8.6	2.4	---	24.5
181 - 300	0.4	8.4	7.1	2.4	0.4	18.7
301 +	0.1	7.0	9.0	3.0	1.9	21.0
TOTALS FOR POTASH	3.8	53.1	31.8	8.9	2.5	100.0

ST JOSEPH COUNTY - 297 Samples

0 - 40	3.0	5.1	0.3	----	---	8.4
41 - 100	1.7	8.8	1.0	0.3	0.3	12.1
101 - 180	1.7	8.4	6.4	1.3	---	17.8
181 - 300	2.0	6.1	3.7	3.0	0.7	15.5
301 +	2.0	14.8	10.4	12.1	6.7	46.0
TOTALS FOR POTASH	10.4	43.2	21.8	16.7	7.7	99.8

SCOTT COUNTY - 61 Samples

0 - 40	4.9	14.8	6.6	6.6	---	32.9
41 - 100	4.9	19.7	6.6	4.9	---	36.1
101 - 180	1.6	6.6	6.6	1.6	---	16.4
181 - 300	----	3.3	4.9	----	---	8.2
301 +	----	1.6	1.6	----	3.3	6.5
TOTALS FOR POTASH	11.4	46.0	26.3	13.1	3.3	100.1

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
SOIL TESTS BY COUNTY. 1962

SHELBY COUNTY - 447 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	1.6	8.3	1.3	0.2	----	11.4
41 - 100	1.3	19.0	4.3	1.3	----	25.9
101 - 180	0.2	14.8	3.4	1.8	----	20.2
181 - 300	1.1	10.1	4.5	0.7	----	16.4
301 +	----	13.4	8.3	3.4	1.1	26.2
TOTALS FOR POTASH	4.2	65.6	21.8	7.4	1.1	100.1

SPENCER COUNTY - 359 Samples

0 - 40	6.1	27.1	6.4	2.5	1.1	43.2
41 - 100	3.1	10.6	3.9	1.4	0.6	19.6
101 - 180	1.1	8.9	4.2	1.4	0.6	16.2
181 - 300	0.8	5.3	1.7	0.8	0.6	9.2
301 +	0.6	3.9	4.7	1.7	1.1	12.0
TOTALS FOR POTASH	11.7	55.8	20.9	7.8	4.0	100.2

STARKE COUNTY - 363 Samples

0 - 40	0.6	----	----	----	----	0.6
41 - 100	0.8	1.1	----	----	----	1.9
101 - 180	5.0	7.7	1.4	0.6	----	14.7
181 - 300	6.9	17.1	6.6	5.5	0.3	36.4
301 +	5.0	17.4	10.2	12.1	2.0	46.7
TOTALS FOR POTASH	18.3	43.3	18.2	18.2	2.3	100.3

STEBEN COUNTY - 248 Samples

0 - 40	0.4	6.5	2.0	----	----	8.9
41 - 100	1.2	17.7	4.4	----	----	23.3
101 - 180	1.2	16.1	8.9	1.6	0.8	28.6
181 - 300	0.4	10.1	6.0	2.8	1.6	20.9
301 +	----	8.5	4.8	2.0	2.8	18.1
TOTALS FOR POTASH	3.2	58.9	26.1	6.4	5.2	99.8

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH SOIL TESTS BY COUNTY. 1962

SULLIVAN COUNTY - 247 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	8.5	18.2	1.6	0.4	0.8	29.5
41 - 100	6.1	17.0	2.4	0.8	---	26.3
101 - 180	1.6	14.6	1.6	---	---	17.8
181 - 300	1.2	6.9	3.6	0.4	0.4	12.5
301 +	3.2	7.3	1.6	---	1.6	13.7
TOTALS FOR POTASH	20.6	64.0	10.8	1.6	2.8	99.8

SWITZERLAND COUNTY - 392 Samples

0 - 40	7.7	14.5	4.1	1.5	---	27.8
41 - 100	3.3	8.2	4.3	2.6	0.3	18.7
101 - 180	1.3	5.4	3.1	1.5	0.5	11.8
181 - 300	1.0	3.8	3.1	1.0	1.5	10.4
301 +	0.8	7.7	7.7	6.1	9.2	31.5
TOTALS FOR POTASH	14.1	39.6	22.3	12.7	11.5	100.2

TIPPECANOE COUNTY - 833 Samples

0 - 40	2.0	8.9	1.0	0.5	0.1	12.5
41 - 100	3.4	19.2	3.0	1.0	---	26.6
101 - 180	1.1	12.8	6.6	2.9	---	23.9
181 - 300	1.2	8.2	3.0	1.6	0.4	14.4
301 +	0.4	9.6	4.7	4.8	3.4	22.9
TOTALS FOR POTASH	8.1	58.7	18.3	10.8	4.4	100.3

TIPTON COUNTY - 155 Samples

0 - 40	----	----	----	----	---	----
41 - 100	----	6.5	1.3	0.6	---	8.4
101 - 180	----	7.1	3.2	1.3	---	1.6
181 - 300	1.9	3.2	6.5	1.3	0.6	13.5
301 +	1.9	21.9	20.6	17.4	4.5	66.3
TOTALS FOR POTASH	3.8	38.7	31.6	20.6	5.1	99.8

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH SOIL TESTS BY COUNTY. 1962

UNION COUNTY - 90 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	----	7.8	3.3	1.1	----	12.2
41 - 100	----	25.6	10.0	2.2	1.1	38.7
101 - 180	----	7.8	1.1	4.9	2.2	15.5
181 - 300	----	3.3	1.1	7.8	2.2	14.4
301 +	----	4.4	6.7	6.7	1.1	18.9
TOTALS FOR POTASH	----	48.9	22.2	22.2	6.6	99.9

VANDEBURGH COUNTY - 629 Samples

0 - 40	8.4	13.8	2.7	0.3	----	25.2
41 - 100	6.4	14.8	4.5	1.7	0.5	27.9
101 - 180	1.6	9.9	2.7	2.2	0.6	17.0
181 - 300	2.2	7.5	1.6	1.1	0.2	12.6
301 +	0.8	5.9	3.0	3.0	4.6	17.3
TOTALS FOR POTASH	19.4	51.9	14.2	8.3	6.2	100.0

VERMILLION COUNTY - 443 Samples

0 - 40	1.4	13.8	2.0	0.9	----	18.1
41 - 100	0.5	20.3	4.3	0.7	0.2	26.0
101 - 180	0.5	10.6	2.9	0.7	0.5	15.2
181 - 300	0.9	8.4	5.2	2.3	0.5	17.3
301 +	0.9	8.1	5.9	4.5	4.1	23.5
TOTALS FOR POTASH	4.2	61.2	20.3	9.1	5.3	100.1

VIGO COUNTY - 241 Samples

0 - 40	2.5	5.8	0.4	----	----	8.7
41 - 100	4.1	12.9	2.5	----	----	19.5
101 - 180	3.7	12.9	3.7	1.2	----	21.5
181 - 300	1.2	10.8	2.5	1.2	0.8	16.5
301 +	1.2	7.9	4.1	4.1	15.4	34.0
TOTALS FOR POTASH	12.7	50.3	13.2	7.8	16.2	100.2

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
SOIL TESTS BY COUNTY. 1962

WABASH COUNTY - 443 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	0.5	9.0	1.8	0.5	---	11.8
41 - 100	0.7	12.4	7.7	1.4	0.2	22.4
101 - 180	0.5	6.3	5.9	1.6	0.2	14.5
181 - 300	0.2	5.4	7.0	2.3	0.9	15.8
301 +	----	7.9	13.5	8.1	6.1	35.6
TOTALS FOR POTASH	1.9	41.0	35.9	13.9	7.4	100.1

WARREN COUNTY - 398 Samples

0 - 40	0.8	2.8	1.8	0.3	---	5.7
41 - 100	1.0	12.6	5.5	1.3	0.3	20.7
101 - 180	0.5	9.3	7.0	3.0	1.3	21.1
181 - 300	0.3	12.6	4.8	2.8	1.5	22.0
301 +	1.0	14.3	8.3	4.5	2.8	30.9
TOTALS FOR POTASH	3.6	51.6	27.4	11.9	5.9	100.4

WARRICK COUNTY - 241 Samples

0 - 40	4.6	24.9	2.1	2.1	---	33.7
41 - 100	3.3	27.0	1.2	0.8	---	32.3
101 - 180	0.8	10.4	----	----	0.4	11.6
181 - 300	----	2.9	----	----	---	2.9
301 +	----	7.1	8.3	2.1	2.1	19.6
TOTALS FOR POTASH	8.7	72.3	11.6	5.0	2.5	100.1

WASHINGTON COUNTY - 308 Samples

0 - 40	4.2	27.9	11.0	7.8	1.0	51.9
41 - 100	----	12.7	8.1	3.6	0.7	25.1
101 - 180	----	4.5	2.6	2.9	1.3	11.3
181 - 300	----	1.0	1.6	3.6	1.3	7.5
301 +	0.3	0.7	----	1.3	1.9	4.2
TOTALS FOR POTASH	4.5	46.8	23.3	19.2	6.2	100.0

TABLE 4 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
SOIL TESTS BY COUNTY. 1962

WAYNE COUNTY - 193 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	1.6	5.7	1.0	----	----	8.3
41 - 100	1.6	10.4	3.1	1.0	1.0	17.1
101 - 180	1.6	7.3	10.4	6.2	----	25.5
181 - 300	----	3.6	8.3	8.8	----	20.7
301 +	----	4.7	9.8	7.3	6.7	28.5
TOTALS FOR POTASH	4.8	31.7	32.6	23.3	7.7	100.1

WELLS COUNTY - 400 Samples

0 - 40	1.0	4.0	0.5	----	----	5.5
41 - 100	0.3	14.3	5.8	1.5	----	21.9
101 - 180	----	7.5	8.3	2.3	0.3	18.4
181 - 300	----	4.8	8.5	3.8	1.3	18.4
301 +	----	6.5	12.5	11.3	5.3	35.6
TOTALS FOR POTASH	1.3	37.1	35.6	18.9	6.9	99.8

WHITE COUNTY - 620 Samples

0 - 40	9.6	1.0	0.5	----	----	11.1
41 - 100	1.8	----	0.8	0.3	0.2	3.1
101 - 180	3.2	11.6	3.7	1.8	----	20.3
181 - 300	2.9	15.2	3.7	1.1	0.2	23.1
301 +	6.8	22.3	7.3	3.9	2.3	42.6
TOTALS FOR POTASH	24.3	50.1	16.0	7.1	2.7	100.2

WHITLEY COUNTY - 1009 Samples

0 - 40	1.7	7.4	1.5	0.6	0.7	11.9
41 - 100	0.7	13.9	10.7	1.5	0.5	27.3
101 - 180	0.5	10.1	10.2	2.5	1.0	24.3
181 - 300	0.7	5.9	5.9	2.5	0.9	15.9
301 +	0.6	3.2	8.3	6.9	1.6	20.6
TOTALS FOR POTASH	4.2	40.5	36.6	14.0	4.7	100.0

TABLE 5 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
SOIL TESTS FOR INDIANA. 1962

TOTAL FOR INDIANA - 39,290 Samples

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	3.7	13.0	3.1	1.2	0.3	21.3
41 - 100	2.7	13.6	4.1	1.4	0.3	22.1
101 - 180	1.1	9.8	4.6	1.9	0.4	17.8
181 - 300	0.8	6.9	4.4	2.4	0.6	15.1
301 +	0.8	7.5	6.5	5.2	3.7	23.7
TOTALS FOR POTASH	9.1	50.8	22.7	12.1	5.3	100.0

Historic Document

TABLE 6 - RECOMMENDED NITROGEN APPLICATIONS - BASED ON MEAN WEIGHTED AVERAGE INFORMATION* FOR SOIL SAMPLES. 1962

County	No.		No.		No.	
	Samples	Corn	Samples	Wheat	Samples	Oats
Adams	211	79.1	79	38.4	27	40.4
Allen	240	75.6	58	39.5	45	40.0
Bartholomew	164	79.5	8	45.3	7	31.4
Benton	1034	86.7	108	42.6	104	39.1
Blackford	139	82.0	18	38.6	36	38.6
Boone	214	90.4	31	40.5	20	39.5
Brown	33	91.7	1	40.0	13	40.0
Carroll	275	94.3	17	42.2	21	38.1
Cass	312	82.3	142	45.1	75	40.7
Clark	72	86.7	2	42.5	3	40.0
Clay	136	75.2	34	43.6	2	40.0
Clinton	244	96.0	20	36.1	30	43.4
Crawford	17	100.7	1	50.0	---	---
Daviess	150	85.6	26	47.1	6	40.0
Dearborn	89	81.1	36	39.5	25	40.6
Decatur	635	88.2	213	46.4	82	39.9
DeKalb	252	84.2	88	40.5	60	40.7
Delaware	155	81.9	11	38.0	8	40.0
Dubois	178	82.3	14	45.0	10	37.0
Elkhart	354	82.9	47	51.4	10	33.0
Fayette	152	84.6	7	46.4	12	35.8
Floyd	14	86.3	1	50.0	4	40.0
Fountain	154	82.8	39	43.7	29	35.9
Franklin	185	85.1	12	47.5	7	35.0
Fulton	169	76.4	18	52.6	10	43.1
Gibson	86	90.1	19	42.4	2	40.0
Grant	116	87.5	54	38.4	52	39.8
Greene	283	87.9	23	45.8	16	40.0
Hamilton	175	92.4	28	41.8	16	39.3
Hancock	337	73.7	61	40.0	45	38.7
Harrison	104	83.1	5	42.5	8	40.0
Hendricks	243	95.2	17	42.9	16	38.8
Henry	202	89.9	17	39.4	22	38.6
Howard	175	94.9	16	39.5	2	30.0
Huntington	78	82.8	12	70.0	49	39.0
Jackson	149	86.2	44	46.1	29	40.0
Jasper	557	82.4	99	44.6	41	41.7
Jay	90	83.7	6	38.3	21	40.5
Jefferson	31	88.1	3	46.7	2	40.0
Jennings	56	78.0	---	---	1	40.0
Johnson	241	81.5	38	41.0	17	39.4
Knox	188	86.6	24	47.5	---	---
Kosciusko	173	80.7	25	46.6	20	43.5
LaGrange	72	65.3	15	44.0	22	48.2
Lake	294	86.4	89	42.2	108	38.8
LaPorte	237	78.5	47	21.0	2	45.0

* Information consisted of soil type, soil color, and texture as determined in laboratory, and recent crop history as shown on farmer information blanks. This information, rather than the average should be used to determine nitrogen recommendations. (Recommendations in 1962 were made for an average of 100 bushels of corn, 40 bushels of wheat, and 60 bushels of oats per acre.)

TABLE 6 - RECOMMENDED NITROGEN APPLICATIONS - BASED ON MEAN WEIGHTED AVERAGE INFORMATION* FOR SOIL SAMPLES. 1962

County	No.		No.		No.	
	Samples	Corn	Samples	Wheat	Samples	Oats
Lawrence	71	84.0	2	51.3	11	44.6
Madison	268	83.4	154	29.7	56	39.2
Marion	27	75.6	7	40.0	1	40.0
Marshall	121	81.3	30	49.5	10	40.0
Martin	53	96.2	3	40.0	---	---
Miami	254	86.2	13	41.2	23	43.3
Monroe	33	90.3	3	45.0	24	38.8
Montgomery	213	81.4	24	39.4	23	39.3
Morgan	401	80.8	53	39.6	82	41.3
Newton	158	89.6	7	43.6	17	40.6
Noble	238	79.3	56	45.2	40	43.1
Ohio	35	92.8	3	41.7	12	39.6
Orange	41	101.0	---	---	8	40.0
Owen	101	84.6	8	45.9	12	40.0
Parke	119	86.2	7	31.1	5	40.0
Perry	35	83.8	8	45.0	1	40.0
Pike	91	99.2	18	47.9	---	---
Porter	191	81.9	29	42.0	7	41.4
Posey	111	86.6	8	43.4	1	40.0
Pulaski	154	77.4	32	48.9	3	43.3
Putnam	188	93.4	11	45.2	12	40.8
Randolph	226	84.7	88	40.7	84	40.0
Ripley	155	76.6	18	41.5	10	40.0
Rush	527	97.1	39	40.8	41	40.3
St. Joseph	125	79.7	23	41.2	5	44.0
Scott	16	95.6	---	---	---	---
Shelby	272	83.6	22	42.6	22	40.7
Spencer	126	95.1	10	41.8	5	36.0
Starke	111	61.5	24	47.5	6	33.3
Steuben	112	81.9	24	46.5	16	43.1
Sullivan	68	82.1	16	46.1	4	40.0
Switzerland	72	85.7	4	39.4	11	32.7
Tippecanoe	354	93.1	90	41.9	52	41.2
Tipton	97	97.1	10	39.6	9	40.0
Union	58	85.6	3	49.2	7	41.4
Vanderburgh	216	86.4	91	39.8	11	38.2
Vermillion	85	85.5	148	39.2	31	39.0
Vigo	66	74.0	25	41.9	1	40.0
Wabash	262	91.9	37	38.9	23	40.0
Warren	196	86.7	48	46.8	32	38.9
Warrick	117	105.9	17	35.1	2	40.0
Washington	126	87.1	16	43.6	8	40.0
Wayne	87	92.8	6	48.3	13	41.4
Wells	177	87.5	51	37.9	25	39.6
White	351	84.9	17	41.5	27	41.1
Whitley	273	81.9	93	40.2	70	44.7

* Information consisted of soil type, soil color, and texture as determined in laboratory and recent crop history as shown on farmer information blanks. This information, rather than the average should be used to determine nitrogen recommendations. (Recommendations in 1962 were made for an average of 100 bushels of corn, 40 bushels of wheat, and 60 bushels of oats per acre.)

TABLE 7 - PERCENTAGE DISTRIBUTION OF pH (ACIDITY) SOIL TESTS BY REGION WITH ESTIMATED AVERAGE LIME REQUIREMENT. 1962

Region	Number Samples	0.0-5.0	5.1-5.3	5.4-5.6	5.7-5.9	6.0-6.2	6.3-6.5	6.6-7.1	7.2+	*Average Lime Application Required, Tons/A.
A.	2490	5.8	7.0	12.4	17.0	19.2	17.0	17.6	3.9	2.3
B. ^{E1/}	142	-----	2.1	4.9	12.0	32.4	20.4	25.4	2.8	1.5
B. ^{W2/}	308	2.3	3.2	9.7	16.2	17.9	22.4	22.4	5.8	1.8
C.	3976	1.2	4.0	10.6	17.9	26.0	23.1	14.8	2.5	2.0
D.	2910	2.1	4.0	9.1	13.6	20.1	20.4	26.8	3.9	1.7
E.	6480	0.6	2.2	7.1	12.1	19.3	21.9	30.9	5.8	1.4
F.	3927	0.7	2.9	7.0	11.8	20.1	22.5	29.8	5.3	1.4
G.	4189	1.4	3.2	6.8	11.3	18.6	22.2	31.7	5.0	1.4
H.	3214	1.4	3.4	4.8	8.6	13.5	18.8	33.4	16.1	1.2
I.	1693	3.2	6.8	9.1	9.2	13.3	17.0	30.7	10.6	1.6
J.	1296	4.5	5.5	5.6	8.4	12.0	14.9	36.9	12.3	1.4
K.	1124	6.4	10.2	12.0	11.7	11.8	14.6	25.9	7.4	2.1
L.	2280	4.4	12.2	12.9	10.4	13.1	15.0	27.0	4.9	2.1
M.	1563	3.6	7.1	10.7	8.8	14.0	14.8	31.9	9.0	1.7
N.	366	1.1	4.6	6.6	7.9	10.7	19.7	39.9	9.6	1.2
O.	490	2.0	7.1	8.4	10.4	14.1	20.0	32.9	5.3	1.6
P.	1096	4.8	9.0	9.4	11.9	14.1	17.0	27.6	6.2	1.9

* This is a weighted average, obtained by multiplying each percentage figure by the estimated tonage of lime needed to raise the pH to 6.5.

1/ Includes only the portion of region B in Allen County.

2/ Includes portions of region B which lie in Newton, Jasper, Pulaski, Morgan, and Hendricks Counties.

TABLE 8 - PERCENTAGE DISTRIBUTION OF pH (ACIDITY SOIL TESTS BY SOIL GROUP WITH ESTIMATED AVERAGE LIME REQUIREMENT. 1962

Soil Type	Number Samples	pH Ranges									*Average Lime Application Required, Tons/A.
		0.0-5.0	5.1-5.3	5.4-5.6	5.7-5.9	6.0-6.2	6.3-6.5	6.6-7.1	7.2+		
1	930	0.6	2.4	3.5	6.1	9.8	14.1	35.1	28.4	0.8	
2	486	11.1	10.1	17.9	24.5	15.4	8.0	7.2	5.8	3.0	
3	190	4.2	6.3	11.1	12.1	13.7	20.0	30.0	2.6	1.8	
4	1814	4.5	6.3	11.1	15.5	20.7	19.1	19.1	3.6	2.1	
5	142	----	2.1	4.9	12.0	32.4	20.4	25.4	2.8	1.5	
6	308	2.3	3.2	9.7	16.2	17.9	22.4	22.4	5.8	1.8	
7	2264	1.0	4.6	11.5	19.5	26.1	22.7	13.2	1.4	2.1	
8	1712	1.4	3.2	9.4	15.7	25.8	23.6	17.0	4.0	1.8	
9	122	10.7	5.7	18.0	17.2	18.0	13.1	13.1	4.1	2.7	
10	1763	1.9	4.3	8.4	14.0	19.9	21.8	26.1	3.5	1.7	
11	1025	1.3	3.1	9.2	12.5	20.8	18.9	29.7	4.6	1.6	
12	3633	0.7	2.0	7.8	13.4	19.5	21.9	29.1	5.6	1.5	
13	2372	0.5	3.0	7.2	11.3	19.0	20.8	33.6	4.6	1.4	
14	475	----	----	1.9	6.5	19.6	27.4	30.3	14.3	0.9	
15	1619	0.5	1.8	5.4	10.6	20.2	22.8	31.6	7.2	1.3	
16	2027	0.6	3.7	8.3	13.0	19.8	21.8	29.0	3.7	1.6	
17	281	2.1	3.2	6.8	10.7	21.7	25.3	24.9	5.3	1.6	
18	1944	1.5	3.0	5.4	11.6	17.4	23.0	32.8	5.3	1.4	
19	1878	1.5	3.9	8.7	10.5	18.6	21.2	31.3	4.4	1.5	
20	367	----	0.5	4.6	13.6	24.3	22.6	27.8	6.5	1.3	

* This is a weighted average, obtained by multiplying each percentage figure by the estimated tonnage of lime needed to raise the pH to 6.5.

TABLE 8 - PERCENTAGE DISTRIBUTION OF pH (ACIDITY) SOIL TESTS BY SOIL GROUP WITH ESTIMATED AVERAGE LIME REQUIREMENT. 1962

Soil Type	Number Samples	pH Ranges								*Average Lime Application Required, Tons/A.
		0.0-5.0	5.1-5.3	5.4-5.6	5.7-5.9	6.0-6.2	6.3-6.5	6.6-7.1	7.2+	
21	253	0.4	4.3	7.1	15.8	16.6	19.0	29.6	7.1	1.5
22	2031	1.8	3.7	5.1	8.9	14.8	21.0	33.1	11.6	1.3
23	551	3.6	4.5	5.3	7.3	11.1	16.7	36.5	15.1	1.3
24	1142	3.1	7.9	10.9	10.2	14.4	17.2	27.9	8.5	1.8
25	623	4.8	4.2	4.2	7.2	11.7	15.1	38.7	14.1	1.3
26	673	4.2	6.7	6.8	9.5	12.2	14.7	35.2	10.7	1.5
27	233	3.4	4.3	9.9	11.6	11.6	15.9	34.3	9.0	1.6
28	891	7.2	11.8	12.6	11.7	11.9	14.3	23.7	7.0	2.3
29	493	4.9	7.9	11.2	8.7	12.8	17.2	30.8	6.5	1.8
30	1787	4.3	13.4	13.4	10.8	13.2	14.4	26.0	4.5	2.2
31	303	2.0	5.9	9.2	9.2	13.5	10.2	34.3	15.5	1.4
32	1260	4.0	7.4	11.1	8.7	14.1	16.0	31.3	7.4	1.8
33	170	0.6	2.9	3.5	10.6	11.8	24.7	36.5	9.4	1.1
34	196	1.5	6.1	9.2	5.6	9.7	15.3	42.9	9.7	1.3
35	490	2.0	7.1	8.4	10.4	14.1	20.0	32.9	5.3	1.6
36	433	3.2	7.6	9.9	12.2	14.5	16.6	28.2	7.6	1.8
37	663	5.9	10.0	9.0	11.6	13.9	17.2	27.1	5.3	2.0

* This is a weighted average, obtained by multiplying each percentage figure by the estimated tonnage of lime needed to raise the pH to 6.5.

TABLE 9 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH SOIL TESTS BY SOIL GROUP. 1962

1 Eel, Genesee, Sharkey, and Shoals. - 932 Samples.

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	3.8	6.0	0.5	0.2	0.1	10.6
41 - 100	2.3	11.6	1.9	0.9	0.2	16.9
101 - 180	1.1	9.5	3.8	1.6	0.3	16.3
181 - 300	1.4	9.1	3.9	1.6	---	16.0
301 +	1.5	15.8	12.3	7.0	3.6	40.2
TOTALS FOR POTASH	10.1	52.0	22.4	11.3	4.2	100.0

2 Carlisle and Houghton. - 498 Samples.

0 - 40	0.4	0.2	---	---	---	0.6
41 - 100	1.0	3.8	1.0	0.8	---	6.6
101 - 180	3.0	5.8	4.0	3.4	1.2	17.4
181 - 300	3.8	8.2	8.4	7.8	1.6	29.8
301 +	1.4	15.5	10.4	12.0	6.0	45.3
TOTALS FOR POTASH	9.6	33.5	23.8	24.0	8.8	99.7

3 Granby, Maumee, Morocco, Newton, Runnymede, and Willvale. - 190 Samples.

0 - 40	---	1.1	2.1	0.5	---	3.7
41 - 100	3.2	5.3	3.2	---	---	11.7
101 - 180	3.2	11.1	5.8	0.5	---	20.6
181 - 300	3.7	13.7	4.7	1.6	0.5	24.2
301 +	2.6	14.2	14.2	7.9	1.1	40.0
TOTALS FOR POTASH	12.7	45.4	30.0	10.5	1.6	100.2

4 Bridgeman, Door, Fox, Nekoosa, Oshtemo, Plainfield, Tracy, Tyner, and Warsaw. - 1783 Samples.

0 - 40	0.4	1.1	0.3	---	---	1.8
41 - 100	2.0	6.1	0.6	0.1	0.1	8.9
101 - 180	2.6	10.8	4.9	1.0	0.1	19.4
181 - 300	2.7	15.3	6.8	2.9	0.9	28.6
301 +	4.7	13.1	10.8	9.0	3.7	41.3
TOTALS FOR POTASH	12.4	46.4	23.4	13.0	4.8	100.0

TABLE 9 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
SOIL TESTS BY SOIL GROUP. 1962

5 Blount, Colwood, Fulton, Hoytville, Napanee, and Toledo. - 142 Samples.

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	----	1.4	0.7	0.7	---	2.8
41 - 100	----	0.7	----	0.7	---	1.4
101 - 180	----	5.6	4.9	2.8	---	13.3
181 - 300	0.7	2.8	6.3	4.2	0.7	14.7
301 +	0.7	7.0	28.2	26.8	4.9	67.6
TOTALS FOR POTASH	1.4	17.5	40.1	35.2	5.6	99.8

6 Ade Darroch, Foresman, Jasper, Maumee, and Rensselaer. - 308 Samples.

0 - 40	1.0	2.3	0.3	----	---	3.6
41 - 100	----	13.0	5.5	1.6	---	20.1
101 - 180	3.6	17.2	4.9	1.9	0.3	27.9
181 - 300	2.6	15.9	5.5	0.3	1.0	25.3
301 +	1.0	14.3	4.2	2.9	0.6	23.0
TOTALS FOR POTASH	8.2	62.7	20.4	6.7	1.9	99.9

7 Corwin, Dana, Mellott, Octagon, Parr, and Sidell. - 2257 Samples.

0 - 40	0.9	8.0	1.4	0.7	0.1	11.1
41 - 100	1.5	17.8	6.2	1.5	0.3	27.3
101 - 180	1.3	12.0	4.9	2.2	2.7	23.1
181 - 300	0.5	13.2	5.0	2.7	0.4	21.8
301 +	0.8	7.4	4.4	3.1	1.1	16.8
TOTALS FOR POTASH	5.0	58.4	21.9	10.2	4.6	100.1

8 Chalmers, Odell, Otterbein, Raub, Romney, and Toronto. - 1712 Samples.

0 - 40	0.5	3.1	0.8	0.1	0.1	4.6
41 - 100	1.0	8.8	3.4	0.6	0.1	13.9
101 - 180	0.9	11.3	5.7	2.0	0.3	20.2
181 - 300	1.1	13.6	5.6	2.9	0.5	23.7
301 +	3.1	17.2	8.5	6.1	2.9	37.8
TOTALS FOR POTASH	6.6	54.0	24.0	11.7	3.9	100.2

TABLE 9 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH SOIL TESTS BY SOIL GROUP. 1962

9 Carlisle and Houghton. - 121 Samples.

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	1.7	2.5	----	----	---	4.2
41 - 100	1.7	4.1	----	0.8	---	6.6
101 - 180	3.3	9.9	5.0	2.5	---	20.7
181 - 300	1.7	4.1	3.3	3.3	1.7	14.1
301 +	----	14.9	11.6	16.5	11.6	54.6
TOTALS FOR POTASH	8.4	35.5	19.9	23.1	13.3	100.2

10 Allendale, Coloma, Fox, Hillsdale, Metea, and Spinks. - 1763 Samples.

0 - 40	1.2	2.9	0.5	0.1	0.1	4.8
41 - 100	3.2	12.5	2.5	0.5	0.2	18.9
101 - 180	3.1	14.5	5.2	1.9	0.2	24.9
181 - 300	2.3	11.5	5.6	2.6	0.7	22.7
301 +	1.1	10.6	7.9	6.1	3.2	28.9
TOTALS FOR POTASH	10.9	52.0	21.7	11.2	4.4	100.2

11 Bremen, Brookston, Crosby, Galena, Kokomo, Miami, and Otis. - 1025 Samples.

0 - 40	1.4	7.7	1.5	0.6	---	11.2
41 - 100	2.1	18.2	5.2	2.0	0.2	27.7
101 - 180	0.7	13.1	8.3	2.1	0.2	24.4
181 - 300	0.8	7.9	5.7	3.4	0.9	18.7
301 +	0.5	8.4	3.7	3.7	1.9	18.2
TOTALS FOR POTASH	5.5	55.3	24.4	11.8	3.2	100.2

12 Bethel and Crosby. - 3631 Samples.

0 - 40	2.2	5.7	0.6	0.2	0.1	8.8
41 - 100	2.1	16.5	3.2	1.0	0.2	23.0
101 - 180	0.7	12.6	6.1	2.0	0.1	21.5
181 - 300	1.0	8.5	6.1	2.2	0.3	18.1
301 +	0.7	8.5	9.3	6.6	3.4	28.5
TOTALS FOR POTASH	6.7	51.8	25.3	12.0	4.1	99.9

TABLE 9 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
SOIL TESTS BY SOIL GROUP. 1962.

13 Fox and Miami. - 2372 Samples.

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	2.5	10.8	1.6	0.5	0.1	15.5
41 - 100	1.4	23.1	6.9	1.2	0.1	32.7
101 - 180	0.5	13.2	8.3	2.3	0.3	24.6
181 - 300	0.1	5.6	5.9	3.5	0.3	15.4
301 +	0.1	2.6	3.9	3.3	2.0	11.9
TOTALS FOR POTASH	4.6	55.3	26.6	10.8	2.8	100.1

14 Brookston and Kokomo. - 475 Samples.

0 - 40	0.6	----	0.2	----	---	0.8
41 - 100	0.2	1.3	0.8	0.2	---	2.5
101 - 180	0.8	5.3	0.6	0.6	---	7.3
181 - 300	0.4	7.2	1.5	1.7	0.2	11.0
301 +	2.1	35.4	21.1	12.2	7.6	78.4
TOTALS FOR POTASH	4.1	49.2	24.2	14.7	7.8	100.0

15 Blount and Napanee. - 1621 Samples.

0 - 40	0.4	4.0	0.4	0.2	0.1	5.1
41 - 100	0.3	13.2	4.1	1.0	---	18.6
101 - 180	0.2	9.7	7.4	2.2	0.1	19.6
181 - 300	---	6.4	10.1	3.8	0.6	20.9
301 +	0.2	6.0	12.5	12.3	4.8	35.8
TOTALS FOR POTASH	1.1	39.3	34.5	19.5	5.6	100.0

16 Morley and St. Clair. - 2026 Samples.

0 - 40	0.4	9.8	2.4	0.4	0.1	13.1
41 - 100	0.2	16.4	10.2	2.5	0.4	29.7
101 - 180	0.1	9.7	9.9	3.5	0.6	23.8
181 - 300	0.1	4.3	7.3	4.6	1.5	17.8
301 +	0.1	1.9	5.0	6.2	2.5	15.7
TOTALS FOR POTASH	0.9	42.1	34.8	17.2	5.1	100.1

TABLE 9 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
 SOIL TESTS BY SOIL GROUP. 1962

17 Pewamo. - 281 Samples.

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	----	----	0.7	----	----	0.7
41 - 100	----	2.1	0.4	----	----	2.5
101 - 180	----	1.8	4.6	0.7	1.8	8.9
181 - 300	2.8	7.1	2.1	2.5	0.4	14.9
301 +	1.4	19.9	22.4	20.6	8.5	72.8
TOTALS FOR POTASH	4.2	30.9	30.2	23.8	10.7	99.8

18 Delmar, Fincastle, Reesville, and Ward. - 1928 Samples.

0 - 40	2.4	7.1	0.7	0.1	0.1	10.4
41 - 100	2.8	22.4	3.6	0.7	---	29.5
101 - 180	0.9	15.5	5.1	1.8	0.2	23.5
181 - 300	0.4	8.7	4.4	2.5	0.4	16.4
301 +	0.2	7.9	6.1	4.0	2.2	20.4
TOTALS FOR POTASH	6.7	61.6	19.9	9.1	2.9	100.2

19 Birkbeck, Fox, Manlove, and Russell. - 1879 Samples.

0 - 40	3.4	17.0	3.1	1.0	0.2	24.7
41 - 100	2.1	24.1	6.0	1.3	0.3	33.8
101 - 180	0.4	10.6	7.7	2.1	0.4	21.2
181 - 300	0.2	5.3	3.4	2.4	0.4	11.7
301 +	0.1	2.2	2.9	2.5	1.0	8.7
TOTALS FOR POTASH	6.2	59.2	23.1	9.3	2.3	100.1

20 Brookston, Cope, Kokomo, and Ragsdale. - 367 Samples.

0 - 40	0.5	2.7	----	0.3	---	3.5
41 - 100	0.8	5.4	0.8	0.5	0.3	7.8
101 - 180	0.3	5.7	1.9	0.8	1.1	9.8
181 - 300	1.1	14.2	4.1	1.9	0.3	21.6
301 +	0.3	25.6	14.2	10.6	6.5	57.2
TOTALS FOR POTASH	3.0	53.6	21.0	14.1	8.2	99.9

TABLE 9 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
SOIL TESTS BY SOIL GROUP. 1962

21 Elkinsville, Fox, Martinsville, and Warsaw. - 254 Samples.

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	0.4	3.9	----	----	---	4.3
41 - 100	2.4	6.3	0.4	----	---	9.1
101 - 180	3.1	10.2	3.5	1.2	1.2	19.2
181 - 300	4.7	13.8	3.9	1.2	0.4	24.0
301 +	5.5	19.3	8.2	5.1	5.1	43.2
TOTALS FOR POTASH	16.1	53.5	16.0	7.5	6.7	99.8

22 Abington, Ackley, Bartle, Elkinsville, Elston, Fox, Homer, Lyle,
McGary, Montgomery, Peoga, Sluth, and Westland. - 2031 Samples.

0 - 40	2.3	10.3	1.3	0.8	0.1	14.8
41 - 100	2.9	15.6	3.4	1.3	0.2	23.4
101 - 180	1.0	13.8	4.2	1.3	0.3	20.6
181 - 300	0.6	7.7	4.4	2.1	0.4	15.2
301 +	0.7	9.0	7.6	5.0	3.8	26.1
TOTALS FOR POTASH	7.5	56.4	20.9	10.5	4.8	100.1

23 Cory, Gibson, Loy, and Vigo. - 551 Samples.

0 - 40	9.6	17.4	2.4	0.2	---	29.6
41 - 100	9.1	20.4	2.4	0.4	---	32.3
101 - 180	2.7	8.3	2.2	0.5	0.4	14.1
181 - 300	0.9	7.6	1.6	0.7	0.5	11.3
301 +	0.5	4.0	2.7	2.2	2.9	12.3
TOTALS FOR POTASH	22.8	57.7	11.3	4.0	3.8	99.6

24 Cincinnati and Parke. - 1142 Samples.

0 - 40	9.4	36.9	8.2	1.5	0.7	56.7
41 - 100	3.5	13.4	4.3	1.1	0.7	23.0
101 - 180	1.1	5.2	1.6	1.2	0.7	9.8
181 - 300	0.3	2.8	1.3	0.5	0.5	5.4
301 +	0.1	0.8	1.1	1.1	2.2	5.3
TOTALS FOR POTASH	14.4	59.1	16.5	5.4	4.8	100.2

TABLE 9 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
SOIL TESTS BY SOIL GROUP. 1962.

25 Avonberg, Cana, Clermont, Rossmoyne, and Whitcomb. - 624 Samples.

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	9.3	10.3	1.1	0.6	0.3	21.6
41 - 100	13.8	14.6	3.8	2.1	0.8	35.1
101 - 180	3.2	10.7	3.8	2.2	0.6	20.5
181 - 300	1.4	5.9	2.4	1.0	0.5	11.2
301 +	----	2.2	2.2	3.8	3.0	11.2
TOTALS FOR POTASH	27.7	43.7	13.3	9.7	5.2	99.6

26 Cincinnati, Grayford, and Jennings. - 673 Samples.

0 - 40	9.4	21.4	5.8	4.0	1.3	41.9
41 - 100	5.1	13.1	5.5	3.4	0.9	28.0
101 - 180	0.3	6.1	3.4	1.8	0.3	11.9
181 - 300	0.3	3.6	3.1	2.1	0.4	9.5
301 +	----	1.6	1.2	2.8	3.1	8.7
TOTALS FOR POTASH	15.1	45.8	19.0	14.1	6.0	100.0

27 Lawrence. - 233 Samples.

0 - 40	5.6	13.7	2.6	0.4	0.4	22.7
41 - 100	4.7	15.0	3.9	2.1	---	25.7
101 - 180	1.3	8.6	0.9	2.1	0.4	13.3
181 - 300	----	5.6	1.7	2.6	0.4	10.3
301 +	0.9	2.1	5.6	4.3	15.0	27.9
TOTALS FOR POTASH	12.5	45.0	14.7	11.5	16.2	99.9

28 Fairmount and Switzerland. - 891 Samples.

0 - 40	3.8	15.6	5.1	2.4	0.7	27.6
41 - 100	1.8	10.0	4.8	2.2	1.0	19.8
101 - 180	0.7	7.1	3.3	2.7	0.4	14.2
181 - 300	0.2	3.7	3.1	1.9	0.7	9.6
301 +	0.3	9.3	7.7	5.4	6.1	28.8
TOTALS FOR POTASH	6.8	45.7	24.0	14.6	8.9	100.0

TABLE 9 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
SOIL TESTS BY SOIL GROUP. 1962

29 Bartle, Johnsburg, Pekin, Peoga, and Tilsit. - 488 Samples.

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	13.1	28.1	6.4	2.3	0.6	50.5
41 - 100	3.7	16.8	3.5	1.2	0.4	25.6
101 - 180	0.6	5.7	1.0	1.2	0.2	8.7
181 - 300	0.2	3.1	1.2	0.8	0.4	5.7
301 +	----	0.8	0.8	1.8	5.9	9.3
TOTALS FOR POTASH	17.6	54.5	12.9	7.3	7.5	99.8

30 Elkinsville, Wellston, and Zanesville. - 1796 Samples.

0 - 40	9.8	45.2	13.0	4.2	0.8	73.0
41 - 100	1.5	6.0	3.8	1.8	0.7	13.8
101 - 180	0.6	2.3	1.3	0.8	0.6	5.6
181 - 300	0.2	1.7	0.6	1.2	0.5	4.2
301 +	----	0.8	0.5	0.9	1.2	3.4
TOTALS FOR POTASH	12.1	56.0	19.2	8.9	3.8	100.0

31 Bedford, Guthrie, and Lawrence. - 303 Samples.

0 - 40	7.6	26.4	10.2	4.0	0.3	48.5
41 - 100	0.3	11.9	6.9	3.3	1.3	23.7
101 - 180	----	4.0	4.3	4.3	1.0	13.6
181 - 300	----	0.3	1.0	1.0	1.0	3.3
301 +	----	0.3	0.3	1.3	8.9	10.8
TOTALS FOR POTASH	7.9	42.9	22.7	13.9	12.5	99.9

32 Bewleyville, Crider, Frederick, and Pembroke. - 1260 Samples.

0 - 40	6.0	37.2	17.4	8.5	1.3	70.4
41 - 100	0.2	7.1	5.3	3.5	0.6	16.7
101 - 180	----	0.7	1.5	2.9	1.0	6.1
181 - 300	----	0.4	0.6	1.2	0.9	3.1
301 +	----	0.2	0.3	0.7	2.4	3.6
TOTALS FOR POTASH	6.2	45.6	25.1	16.8	6.2	99.9

TABLE 9 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
SOIL TESTS BY SOIL GROUP. 1962

33. Dubois, Haubstadt, McGary, Montgomery, Robinson, and Zipp. -
170 Samples.

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	4.7	3.5	----	----	---	8.2
41 - 100	2.4	6.5	1.2	0.6	---	10.7
101 - 180	2.9	14.1	1.8	0.6	0.6	20.0
181 - 300	2.4	12.9	3.5	0.6	0.6	20.0
301 +	2.4	18.2	11.2	5.3	4.1	41.2
TOTALS FOR POTASH	14.8	55.2	17.7	7.1	5.3	100.1

34. Bainbridge, Markland, and Otwell. - 196 Samples.

0 - 40	9.7	18.4	2.0	2.0	---	32.1
41 - 100	3.1	20.9	3.1	----	---	27.1
101 - 180	1.5	10.2	3.1	1.5	1.0	17.3
181 - 300	1.5	5.1	2.6	0.5	---	9.7
301 +	----	3.1	5.6	3.1	2.0	13.8
TOTALS FOR POTASH	15.8	57.7	16.4	7.1	3.0	100.0

35. Bloomfield and Princeton. - 491 Samples.

0 - 40	4.7	9.8	1.0	0.2	---	15.7
41 - 100	6.7	15.1	4.7	1.0	0.4	27.9
101 - 180	1.4	12.8	3.5	2.4	0.2	20.3
181 - 300	2.9	8.1	2.9	2.0	0.8	16.7
301 +	0.8	5.9	6.5	2.6	3.5	19.3
TOTALS FOR POTASH	16.5	51.7	18.6	8.2	4.9	99.9

36. Iva Muren, and Stoy. - 433 Samples.

0 - 40	5.1	11.8	1.4	0.9	---	19.2
41 - 100	7.4	14.1	3.7	2.1	0.2	27.5
101 - 180	3.0	10.9	4.4	1.6	0.7	20.6
181 - 300	3.2	8.5	3.2	0.7	0.5	16.1
301 +	1.6	6.2	4.4	1.8	2.5	16.5
TOTALS FOR POTASH	20.3	51.5	17.1	7.1	3.9	99.9

TABLE 9 - PERCENTAGE DISTRIBUTION OF PHOSPHATE AND POTASH
SOIL TESTS BY SOIL GROUP. 1962

37 Alford and Hosmer. - 663 Samples.

Phosphate Test	Potash Test					TOTALS FOR PHOSPHATE
	0-100	101-180	181-250	251-375	376+	
0 - 40	8.7	25.2	4.5	1.8	0.8	41.0
41 - 100	5.7	13.9	4.2	1.8	0.6	26.2
101 - 180	1.1	9.5	3.8	1.8	0.2	16.4
181 - 300	0.6	4.7	1.1	0.9	0.3	7.6
301 +	0.6	2.7	2.0	1.5	2.1	8.9
TOTALS FOR POTASH	16.7	56.0	15.6	7.8	4.0	100.1

Historic Document

TABLE 10 - RECOMMENDED NITROGEN APPLICATIONS - BASED ON MEAN WEIGHTED AVERAGE INFORMATION* FOR SOIL SAMPLES. 1962

Soil Group	#Samples	Corn**	#Samples	Wheat**	#Samples	Oats**
1	563	94.9	25	39.1	10	39.0
2	252	60.6	14	27.5	6	25.0
3	70	80.9	8	55.0	5	44.0
4	846	85.4	163	46.6	56	44.5
5	45	69.1	19	39.1	17	40.0
6	173	85.1	9	45.8	14	42.8
7	1138	87.0	215	42.5	166	39.6
8	950	90.0	159	43.1	120	42.7
9	90	57.9	2	35.0	1	20.0
10	755	76.8	193	50.3	98	45.4
11	510	88.3	98	42.3	70	41.8
12	1680	88.6	248	40.5	188	38.3
13	1129	85.8	260	41.2	164	36.1
14	223	90.4	37	35.3	25	42.4
15	593	83.0	165	40.1	145	39.6
16	781	81.9	232	41.5	212	39.7
17	149	79.8	33	36.4	8	38.8
18	1044	91.7	175	48.7	122	40.5
19	926	84.2	213	43.2	92	39.5
20	196	91.5	26	41.4	23	39.1
21	123	71.7	10	48.3	7	48.2
22	965	88.8	151	42.9	81	40.0
23	215	83.1	36	44.8	19	43.0
24	323	79.2	37	41.8	47	40.8
25	243	80.9	39	44.6	15	36.0
26	209	78.5	59	41.3	28	41.6
27	77	74.5	12	45.0	2	40.0
28	125	80.7	18	44.0	46	38.5
29	217	95.5	13	49.1	18	42.2
30	250	92.2	30	43.0	47	39.4
31	71	86.2	4	41.9	6	38.3
32	182	83.4	19	44.1	32	40.3
33	117	96.9	14	39.6	1	40.0
34	126	78.3	9	43.1	4	40.0
35	168	87.0	67	42.2	6	36.7
36	222	88.9	37	44.4	25	36.2
37	228	85.4	77	41.2	14	32.2

* Information consisted of soil type, soil color, and texture as determined in laboratory, and recent crop history as shown on farmer information blank. This information rather than the average should be used to determine nitrogen recommendations.

** Pounds nitrogen per acre

TABLE 11 - AVERAGE RECOMMENDED PHOSPHATE AND POTASH APPLICATIONS FOR CORN - BASED ON WEIGHTED AVERAGE INFORMATION FOR ALL SOIL SAMPLES RECEIVED. 1962

County	Total Corn Samples	Average Recommended Applications*	
		Phosphate Lbs. P ₂ O ₅ /A.	Potash Lbs. K ₂ O/A.
Adams	211	40.1	45.3
Allen	240	39.3	48.8
Bartholomew	164	56.3	66.9
Benton	1034	50.7	66.2
Blackford	139	43.0	47.1
Boone	214	52.1	70.2
Brown	33	89.1	70.3
Carroll	275	40.0	66.1
Cass	312	44.1	63.9
Clark	72	71.1	67.9
Clay	136	60.7	74.6
Clinton	244	43.9	62.9
Crawford	17	82.9	69.4
Daviess	150	61.1	70.7
Dearborn	89	69.7	72.9
Decatur	635	60.0	65.5
DeKalb	252	39.7	49.8
Delaware	155	47.2	48.2
Dubois	178	67.6	67.0
Elkhart	354	39.7	54.7
Fayette	152	57.5	63.6
Floyd	14	100.0	63.6
Fountain	154	51.2	62.6
Franklin	185	55.9	62.6
Fulton	169	34.1	46.3
Gibson	86	51.4	80.3
Grant	116	45.8	55.1
Greene	283	56.4	65.4
Hamilton	175	54.2	58.0
Hancock	337	49.2	61.0
Harrison	104	86.2	59.4
Hendricks	243	54.4	72.6
Henry	202	47.3	56.8
Howard	175	38.4	62.7
Huntington	78	46.3	56.7
Jackson	149	73.5	78.1
Jasper	557	37.5	56.8
Jay	90	49.3	49.1
Jefferson	31	46.1	52.9
Jennings	56	78.4	87.3
Johnson	241	43.9	47.3
Knox	188	50.1	78.7
Kosciusko	173	43.6	59.0
LaGrange	72	45.8	52.6
Lake	294	39.6	51.5
LaPorte	237	28.4	42.2

* Figures are calculated for comparative purposes. To determine the need on a particular farm, it is recommended that the soil be tested.

TABLE 11 - AVERAGE RECOMMENDED PHOSPHATE AND POTASH APPLICATIONS FOR CORN - BASED ON WEIGHTED AVERAGE INFORMATION FOR ALL SOIL SAMPLES RECEIVED. 1962

County	Total Corn Samples	Average Recommended Applications*	
		Phosphate Lbs. P ₂ O ₅ /A.	Potash Lbs. K ₂ O/A.
Lawrence	71	79.7	71.3
Madison	268	42.2	57.6
Marion	27	45.6	75.9
Marshall	121	32.1	50.3
Martin	53	64.5	59.2
Miami	254	40.5	55.0
Monroe	33	90.0	76.7
Montgomery	213	50.7	61.0
Morgan	401	57.3	69.2
Newton	158	40.6	62.8
Noble	238	46.0	56.0
Ohio	35	57.1	68.3
Orange	41	64.9	48.5
Owen	101	78.9	67.5
Parke	119	66.0	72.2
Perry	35	74.3	70.9
Pike	91	77.8	85.1
Porter	191	41.2	50.4
Posey	111	53.8	67.7
Pulaski	154	41.3	50.3
Putnam	188	62.6	65.9
Randolph	226	52.0	60.3
Ripley	155	67.8	76.2
Rush	527	50.4	61.0
St. Joseph	125	38.3	51.5
Scott	16	91.9	70.0
Shelby	272	49.8	65.6
Spencer	126	55.1	68.0
Starke	111	26.1	44.9
Steuben	112	45.8	57.9
Sullivan	68	52.8	75.3
Switzerland	72	65.1	68.3
Tippecanoe	354	52.2	65.2
Tipton	97	30.3	53.3
Union	58	50.5	54.7
Vanderburgh	216	55.9	75.5
Vermillion	85	46.7	62.2
Vigo	66	48.8	74.4
Wabash	262	43.9	49.7
Warren	196	46.8	58.8
Warrick	117	65.6	79.0
Washington	126	76.2	55.0
Wayne	87	49.3	50.9
Wells	117	40.5	49.5
White	351	36.8	68.2
Whitley	273	50.1	55.1

* Figures are calculated for comparative purposes. To determine the need on a particular farm, it is recommended that the soil be tested.

TABLE 12 - AVERAGE RECOMMENDED PHOSPHATE AND POTASH APPLICATIONS FOR CORN BY SOIL GROUP BASED ON SOIL TEST RESULTS FOR ALL SOIL SAMPLES. 1962

Soil Group	Average Recommended Applications *	
	Phosphate lbs. P_2O_5 /A.	Potash lbs. K_2O /A.
1	40.9	57.7
2	32.5	54.3
3	31.1	52.0
4	31.5	117.1
5	28.0	41.1
6	38.0	58.7
7	56.1	62.4
8	39.9	63.4
9	34.9	51.5
10	36.5	51.2
11	49.9	64.6
12	46.2	61.5
13	59.7	63.5
14	26.7	60.0
15	38.6	48.3
16	53.1	50.7
17	24.8	42.6
18	51.9	67.0
19	64.0	65.2
20	34.4	59.4
21	29.1	43.0
22	49.4	63.8
23	61.7	71.7
24	81.6	74.3
25	64.4	70.4
26	67.6	69.2
27	58.7	69.2
28	67.9	66.9
29	72.5	74.0
30	84.2	75.0
31	83.0	62.1
32	87.0	60.0
33	39.7	69.5
34	64.5	69.0
35	57.5	75.6
36	54.6	72.7
37	70.3	76.0

* Figures are calculated for comparative purposes. To determine the need on a particular farm, it is recommended that the soil be tested.