

# ANALYSES OF OFFICIAL FERTILIZER SAMPLES

by the

FEED AND FERTILIZER DEPARTMENT  
KENTUCKY AGRICULTURAL EXPERIMENT STATION

Semi-Annual Report  
January-June, 1951



UNIVERSITY OF KENTUCKY, LEXINGTON

TABLE 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts, January - June 1951

Analyses deficient by more than one-fourth of one percent and relative values deficient by 4 percent or more are underlined. Footnotes are given when the guarantee for sulfate was not met.

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained      | Nitrogen | Phos-phoric Acid Avail-able | Potash | Index of Relative Value |       |
|--|----------|-----------------------------|--------|-------------------------|-------|
|  |          |                             |        | Guar.                   | Found |
| THE AMERICAN AGRICULTURAL CHEMICAL COMPANY,<br>Cincinnati, Ohio.           |          |                             |        |                         |       |
| 6-10-4 (Muriate)<br>7495 J. H. Fedders & Son, Covington                    | 5.93     | 10.30                       | 4.66   | 36.0                    | 36.9  |
| 6-8-12 (Muriate 3, Sulfate 9)<br>7276 Anderson Ice Company, Lawrenceburg   | 5.86     | 8.80                        | 12.03  | 41.6                    | 42.3  |
| 7372 Carroll County Farm Bureau, Carrollton                                | 5.90     | 8.40                        | 11.85  | 41.6                    | 41.7  |
| 7496 Bradley Grocery, Moorefield   | 5.86     | 8.30                        | 11.67  | 41.6                    | 41.4  |
| 7497 L. C. McLoney & Son, Cynthiana  | 5.99     | 8.40                        | 11.90  | 41.6                    | 42.0  |
| 6-8-6 (Sulfate)<br>6644 Bedford and Tuttle, Winchester                     | 5.96     | 7.95                        | 5.96   | 35.6                    | 35.4  |
| 6767 Ravenna Grocery, Ravenna  | 5.92     | 8.00                        | 6.06   | 35.6                    | 35.5  |
| 6945 Bedford & Tuttle, Winchester  | 6.02     | 8.28                        | 6.01   | 35.6                    | 36.0  |
| 7025 Millersburg Coal & Lumber Co., Millersburg                            | 5.92     | 8.30                        | 6.35   | 35.6                    | 36.2  |
| 7149 J. M. Milling Co., Frankfort  | 5.96     | 8.40                        | 6.07   | 35.6                    | 36.1  |
| 7150 Pollard Brothers, Cropper   | 5.96     | 8.80                        | 6.25   | 35.6                    | 36.7  |
| 7277 Woodson Lewis, Greensburg   | 5.90     | 8.50                        | 6.13   | 35.6                    | 36.1  |
| 7761 Henderson & Hardy, Shepherdsville                                     | 5.89     | 8.10                        | 6.18   | 35.6                    | 35.7  |
| 6-8-6 (Muriate 3, Sulfate 3)<br>7590 Morganfield Hardware Co., Morganfield | 5.90     | 8.40                        | 6.32   | 35.6                    | 36.2  |
| 7705 Rowland Hdw. & Feed Store, Owensboro                                  | 5.81     | 8.00                        | 6.31   | 35.6                    | 35.6  |
| 7706 C. C. Hdw., Feed & Seed Co., Hartford                                 | 5.69     | 8.20                        | 6.05   | 35.6                    | 35.3  |
| 5-10-10 (Muriate)<br>7026 Roberts Brothers, Burlington                     | 4.79     | 10.00                       | 10.15  | 40.0                    | 39.7  |
| 7591 L. F. Wellman, Louisa   | 4.85     | 10.40                       | 10.17  | 40.0                    | 40.4  |
| 4-12-8 (Muriate)<br>7027 Rowland Hdw. & Feed Store, Owensboro              | 4.25     | 11.30                       | 8.24   | 38.4                    | 38.3  |
| 7592 Farmers Gin Co., Clinton  | 4.04     | 12.00                       | 8.31   | 38.4                    | 38.8  |
| 4-12-8 (Sulfate)<br>6645 Bedford & Tuttle, Winchester                      | 3.74     | 11.93                       | 8.08   | 38.4                    | 37.9  |
| 6768 Ravenna Grocery, Ravenna  | 3.94     | 11.38                       | 7.85   | 38.4                    | 37.4  |
| 6946 Baughman Milling Co., Stanford  | 3.82     | 12.00                       | 7.97   | 38.4                    | 38.0  |
| 7028 Millersburg Coal & Lmbr. Co., Millersburg                             | 3.75     | 12.00                       | 8.16   | 38.4                    | 38.1  |
| 7151 J. W. Davidson, Science Hill  | 3.94     | 12.50                       | 8.07   | 38.4                    | 39.0  |
| 7373 Carroll County Farm Bureau, Carrollton                                | 3.81     | 12.48                       | 8.07a  | 38.4                    | 38.7  |
| 7498 Elwood Hulette, Frankfort   | 4.07     | 11.95                       | 8.26   | 38.4                    | 38.7  |
| 7499 Bradley Grocery, Moorefield   | 4.03     | 11.80                       | 8.27   | 38.4                    | 38.5  |
| 4-12-8 (Muriate 4, Sulfate 4)<br>7593 Dairyman's Feed & Supply, Mayfield   | 4.04     | 12.20                       | 7.82   | 38.4                    | 38.5  |
| 7594 Ross Feed Co., Murray   | 4.04     | 12.00                       | 8.13   | 38.4                    | 38.6  |
| 4-12-4 (Muriate)<br>7029 Rowland Hdw. & Feed Store, Owensboro              | 3.96     | 11.45                       | 4.27   | 34.4                    | 33.9  |
| 7595 Morganfield Hdw. Co., Morganfield                                     | 4.05     | 12.10                       | 4.16   | 34.4                    | 34.8  |

a. Excess muriate equivalent to 0.47 percent potash

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Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained              | Nitrogen | Phosphoric Acid Available | Potash | Index of Relative Value |       |
|--|----------|---------------------------|--------|-------------------------|-------|
|  |          |                           |        | Guar.                   | Found |
| THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, (Cont'd)                               |          |                           |        |                         |       |
| 3-12-12 (Muriate)  |          |                           |        |                         |       |
| 7374 Western Ky. State Hospital, Hopkinsville                                      | 3.11     | 12.50                     | 11.82  | 40.4                    | 41.0  |
| 7596 Farmers Gin Co., Clinton  | 2.99     | 12.03                     | 12.21  | 40.4                    | 40.6  |
| 7597 Yopp Seed Company, Paducah  | 3.01     | 12.60                     | 10.83  | 40.4                    | 40.0  |
| 7707 Rowland Hdw. & Feed Store, Owensboro  | 2.94     | 12.03                     | 11.61  | 40.4                    | 39.9  |
| 3-9-6 (Muriate)  |          |                           |        |                         |       |
| 7030 Rowland Hdw. & Feed Store, Owensboro  | 2.92     | 9.00                      | 6.05   | 30.8                    | 30.7  |
| 7152 Norris Hdw. & Seed Co., Henderson   | 2.97     | 9.70                      | 6.13   | 30.8                    | 31.7  |
| 7500 Ravenna Grocery, Ravenna  | 2.85     | 9.60                      | 6.29   | 30.8                    | 31.5  |
| 7598 Farmers Gin Co., Clinton  | 2.95     | 8.90                      | 5.80   | 30.8                    | 30.4  |
| 7762 Henderson & Hardy, Shepherdsville   | 2.89     | 9.60                      | 6.04   | 30.8                    | 31.3  |
| 2-12-6 (Muriate)   |          |                           |        |                         |       |
| 6769 Ravenna Grocery, Ravenna  | 1.95     | 10.93                     | 5.98   | 32.4                    | 31.0  |
| 7031 Roberts Brothers, Burlington  | 1.87     | 11.20                     | 5.88   | 32.4                    | 31.1  |
| 7153 J. W. Davidson, Science Hill  | 1.94     | 11.28                     | 6.21   | 32.4                    | 31.6  |
| 7278 Lebanon Carriage & Impl., Co., Lebanon  | 1.95     | 11.25                     | 6.08   | 32.4                    | 31.5  |
| 7375 Carroll County Farm Bureau, Carrollton  | 1.92     | 12.00                     | 6.10   | 32.4                    | 32.3  |
| 7501 J. H. Fedders & Son, Covington  | 1.86     | 11.05                     | 6.11   | 32.4                    | 31.1  |
| 7708 Mackey's General Store, Utica   | 2.01     | 11.60                     | 6.06   | 32.4                    | 32.0  |
| 7763 Henderson & Hardy, Shepherdsville   | 1.97     | 11.00                     | 5.96   | 32.4                    | 31.1  |
| 0-14-14 (Muriate)  |          |                           |        |                         |       |
| 7154 Pollard Brothers, Cropper   | ....     | 14.70                     | 13.58  | 36.8                    | 37.2  |
| 18% Superphosphate   |          |                           |        |                         |       |
| 6770 Anderson Ice Co., Lawrenceburg  | ....     | 18.18                     | ....   | 23.4                    | 23.6  |
| 7032 Rowland Hdw. & Feed Store, Owensboro  | ....     | 18.30                     | ....   | 23.4                    | 23.8  |
| 7279 Morganfield Hdw. Co., Morganfield   | ....     | 18.60                     | ....   | 23.4                    | 24.2  |
| 7502 L. C. McLoney & Son, Cynthiana  | ....     | 18.40                     | ....   | 23.4                    | 23.9  |
| 7503 J. H. Fedders and Son, Covington  | ....     | 18.50                     | ....   | 23.4                    | 24.1  |
| 7504 Bradley Grocery, Moorefield   | ....     | 18.50                     | ....   | 23.4                    | 24.1  |
| 7600 Monarch Milling Co., Mt. Sterling   | ....     | 18.60                     | ....   | 23.4                    | 24.2  |
| 7710 Mackey's General Store, Utica   | ....     | 18.70                     | ....   | 23.4                    | 24.3  |
| AMERICAN CYANAMID COMPANY,<br>New York 20, N. Y.                                   |          |                           |        |                         |       |
| 33.50% Ammonium Nitrate "Aeroprills"   |          |                           |        |                         |       |
| 6626 F. W. Rickard, Winchester   | 33.80    | .....                     | ....   | 67.0                    | 67.6  |
| 6771 Southern States Cooperative, Cynthiana  | 33.48    | .....                     | ....   | 67.0                    | 67.0  |
| 6772 N. S. Dudley & Son, Flemingsburg  | 33.56    | .....                     | ....   | 67.0                    | 67.1  |
| 6773 Southern States Cooperative, Bardstown  | 33.92    | .....                     | ....   | 67.0                    | 67.8  |
| 6877 Adams & Murphy, Wellington  | 33.64    | .....                     | ....   | 67.0                    | 67.3  |
| 7505 Dorsey Bros. & Fisher, Carlisle   | 33.56    | .....                     | ....   | 67.0                    | 67.1  |
| 20.60% Cyanamid Granular "Aero"  |          |                           |        |                         |       |
| 7033 H. D. Jones, Glasgow  | 20.52    | .....                     | ....   | 49.4                    | 49.3  |
| ARMOUR FERTILIZER WORKS,<br>Cincinnati, O., Nashville, Tenn., Jeffersonville, Ind. |          |                           |        |                         |       |
| 10-6-4 (Sulfate) Armour's Special  |          |                           |        |                         |       |
| 6774 N. S. Dudley & Son, Flemingsburg  | 10.00    | 6.53                      | 4.25   | 39.2                    | 40.1  |

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained | Nitrogen    | Phos-phoric Acid Avail-able | Potash            | Index of Relative Value |       |
|---|-------------|-----------------------------|-------------------|-------------------------|-------|
|   |             |                             |                   | Guar.                   | Found |
| ARMOUR FERTILIZER WORKS, (Cont'd)                                     |             |                             |                   |                         |       |
| 6-8-6 (Muriate) "Big Crop Brand"                                      |             |                             |                   |                         |       |
| 6672 Wallace Brothers Lumber Co., Hartford                            | 5.61        | 8.95                        | 6.25              | 35.6                    | 36.2  |
| 6701 Hinch & Co., Marion  | <u>6.08</u> | 8.35                        | 5.96              | 35.6                    | 36.1  |
| 6947 McWhorter Produce Co., Albany                                    | 5.49        | 9.05                        | 6.36              | 35.6                    | 36.2  |
| 7506 Farmers Gin Co., Clinton   | 5.81        | 8.40                        | 6.93              | 35.6                    | 36.6  |
| 6-8-6 (Sulfate) Armour's  |             |                             |                   |                         |       |
| 6631 W. C. Blair, Russell Springs                                     | 6.20        | 8.50                        | 6.09              | 35.6                    | 36.7  |
| 6646 Willoughby Supply Co., Richmond                                  | 6.00        | 8.65                        | 5.99              | 35.6                    | 36.4  |
| 6647 Camargo Farmers Supply, Camargo                                  | 6.06        | 8.65                        | 6.42              | 35.6                    | 36.9  |
| 6702 Chas. Click, Sand Gap  | 6.19        | 8.58                        | 6.19              | 35.6                    | 36.9  |
| 6703 W. J. Amburgey, Means  | 6.00        | 8.70                        | 6.80              | 35.6                    | 37.2  |
| 6704 Wilson Farm Supply, Trenton                                      | 5.94        | 8.15                        | 6.05              | 35.6                    | 35.7  |
| 6705 Upton Hardware Co., Upton  | 5.92        | 8.13                        | 6.32              | 35.6                    | 35.9  |
| 6706 Lilly Brothers Seed Co., Hopkinsville                            | 5.86        | 8.08                        | 6.60 <sup>b</sup> | 35.6                    | 36.0  |
| 6707 Forbes Hardware Co., Hopkinsville                                | 5.81        | 8.40                        | 6.11              | 35.6                    | 35.8  |
| 6708 Bales Hdw. & Impl. Co., Horse Cave                               | 6.04        | 8.55                        | 6.04              | 35.6                    | 36.4  |
| 6775 Worley & Crain, Perryville                                       | 5.90        | 8.58                        | 6.32              | 35.6                    | 36.4  |
| 6776 N. S. Dudley & Son, Flemingsburg                                 | 6.15        | 8.70                        | 6.50              | 35.6                    | 37.2  |
| 6878 Salyersville Wholesale Grocery, Salyersville                     | 6.17        | 8.78                        | 6.10              | 35.6                    | 37.0  |
| 6948 Bullock & Bullock, Mt. Vernon                                    | 5.82        | 8.45                        | 6.33              | 35.6                    | 36.1  |
| 7034 Sphar & Co., Winchester  | 5.97        | 9.00                        | 6.39              | 35.6                    | 37.1  |
| 7035 Irvington Truck Lines, Irvington                                 | 6.01        | 8.80                        | 6.72              | 35.6                    | 37.3  |
| 7036 Harralson Seed Co., Owensboro                                    | 5.68        | 8.08                        | 5.98              | 35.6                    | 35.0  |
| 7156 Farmers Supply Co., Eminence                                     | <u>6.09</u> | 8.20                        | 6.41              | 35.6                    | 36.4  |
| 7376 Chas. Emrick & Son, Philpot                                      | 6.35        | 9.58                        | 6.78              | 35.6                    | 39.0  |
| 7377 Marattay Brothers, Taylorsville                                  | 5.82        | 8.20                        | 6.24              | 35.6                    | 35.7  |
| 7378 Skelton's General Store, Shelbyville                             | 6.03        | 8.00                        | 6.42              | 35.6                    | 36.1  |
| 7379 Ralph Berry, Port Royal  | 6.13        | 8.50                        | 6.40              | 35.6                    | 36.9  |
| 7380 Laswell Milling Co., Brodhead                                    | 5.90        | 8.25                        | 6.02              | 35.6                    | 35.7  |
| 7381 Alvin McCord, Hopkinsville                                       | 6.55        | 9.25                        | 6.84              | 35.6                    | 39.0  |
| 7507 W. C. Dicken, Mentor   | 5.81        | 9.15                        | 6.27              | 35.6                    | 36.9  |
| 5-20-20 (Muriate) "Big Crop Brand"                                    |             |                             |                   |                         |       |
| 6777 O. C. Whitfield, Madisonville                                    | 5.01        | <u>19.10</u>                | 20.14             | 62.0                    | 61.1  |
| 5-10-16 (Sulfate) Armour's  |             |                             |                   |                         |       |
| 6648 A. A. Clay & Son, Winchester                                     | 4.96        | 10.30                       | <u>15.46</u>      | 46.0                    | 45.7  |
| 6673 J. A. Bennett Hdw. Co., Taylorsville                             | 5.12        | 10.40                       | 16.26             | 46.0                    | 47.0  |
| 6778 Worley & Crain, Perryville                                       | 4.87        | 10.45                       | 15.86             | 46.0                    | 46.1  |
| 6779 Brent & Co., Paris   | 5.06        | 10.53                       | 16.09             | 46.0                    | 46.9  |
| 6879 Camargo Farmers Supply, Camargo                                  | 5.00        | 10.68                       | 15.77             | 46.0                    | 46.6  |
| 7037 J. A. Bennett Hdw. Store, Taylorsville                           | 4.93        | 10.40                       | 16.02             | 46.0                    | 46.4  |
| 7038 Cave City Ice & Coal Co., Cave City                              | 4.84        | 9.80                        | 15.75             | 46.0                    | 45.2  |
| 7039 Hulette Hardware Co., Williamstown                               | 5.97        | 10.60                       | 16.12             | 46.0                    | 48.8  |
| 7040 Sphar and Co., Winchester  | 5.09        | 10.60                       | 16.21             | 46.0                    | 47.1  |
| 7041 Sam Ryle, Burlington   | 4.93        | 11.20                       | 15.82             | 46.0                    | 47.1  |
| 7157 Watkins Brothers, Smithfield                                     | 4.93        | 10.40                       | 16.04             | 46.0                    | 46.4  |
| 7382 H. L. Sparks & Co., North Pleasureville                          | 4.88        | 10.20                       | 16.06             | 46.0                    | 46.1  |
| 7383 Marattay Brothers, Taylorsville                                  | 4.95        | 9.90                        | 15.83             | 46.0                    | 45.6  |
| 7765 J. F. Bertram & Son, Vanceburg                                   | 4.90        | 10.30                       | 17.18             | 46.0                    | 47.3  |

b. Excess Muriate equivalent to 0.42 percent potash

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Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty<br>Station No. and From Whom Obtained | Nitrogen | Phos-<br>phoric<br>Acid<br>Avail-<br>able | Potash | Index of<br>Relative Value |       |
|--|----------|---|--------|----------------------------|-------|
|  |          |   |        | Guar.                      | Found |
| ARMOUR FERTILIZER WORKS, (Cont'd)  |          |   |        |                            |       |
| 5-10-10 (Muriate) "Vertagreen Brand"                                     |          |   |        |                            |       |
| 6780 O. C. Whitfield, Madisonville                                       | 5.17     | 10.25                                     | 10.20  | 40.0                       | 40.8  |
| 7158 Bentley Brothers, Garrison  | 5.06     | 10.70                                     | 10.20  | 40.0                       | 41.2  |
| 7280 Cadiz Hardware Co., Cadiz   | 4.93     | 9.90                                      | 10.12  | 40.0                       | 39.9  |
| 7384 J. S. Whittinghill, Fordsville                                      | 5.08     | 10.20                                     | 10.07  | 40.0                       | 40.5  |
| 5-10-10 (Sulfate) Armour's "Vertagreen Brand"                            |          |   |        |                            |       |
| 6709 Forbes Hardware Co., Hopkinsville                                   | 5.23     | 10.00                                     | 9.55   | 40.0                       | 40.0  |
| 6710 W. J. Amburgey, Means   | 5.08     | 10.03                                     | 10.13  | 40.0                       | 40.3  |
| 6781 N. S. Dudley & Son, Flemingsburg                                    | 5.12     | 10.83                                     | 9.95   | 40.0                       | 41.2  |
| 6880 Page Implement Co., Barlow  | 5.23     | 10.23                                     | 9.86   | 40.0                       | 40.6  |
| 6949 Anderson & Spilman, Danville  | 4.78     | 10.20                                     | 10.13  | 40.0                       | 39.9  |
| 7042 J. C. Everett and Co., Maysville                                    | 4.91     | 10.80                                     | 10.29  | 40.0                       | 41.1  |
| 7043 Ideal Hardware Co., Glasgow   | 4.26     | 11.75                                     | 11.60c | 40.0                       | 42.2  |
| 7159 Goodman Brothers, Shelbyville                                       | 5.02     | 10.10                                     | 10.46  | 40.0                       | 40.6  |
| 7281 G. M. Haycraft and Sons, Leitchfield                                | 5.02     | 10.50                                     | 9.87   | 40.0                       | 40.5  |
| 7385 J. E. Lisby, Mt. Eden   | 5.08     | 10.00                                     | 10.01  | 40.0                       | 40.2  |
| 7508 Keith & Lykins, Springdale  | 4.98     | 10.70                                     | 10.80  | 40.0                       | 41.6  |
| 7601 J. L. Wilson, Canmer  | 4.80     | 10.20                                     | 10.97d | 40.0                       | 40.8  |
| 7602 Hatter Hardware Co., Franklin                                       | 4.99     | 10.00                                     | 9.93e  | 40.0                       | 39.9  |
| 7766 Duncan & Hughes, LaGrange   | 4.82     | 11.40                                     | 9.98   | 40.0                       | 41.3  |
| 7767 J. F. Bertram & Son, Vanceburg                                      | 4.93     | 10.50                                     | 10.30  | 40.0                       | 40.8  |
| 7768 R. L. Harned, Custer  | 4.83     | 10.70                                     | 10.07* | 40.0                       | 40.6  |
| 5-10-5 (Muriate) "Vertagreen Brand"                                      |          |   |        |                            |       |
| 7282 Powell Hackney Grocery, Hazard                                      | 5.10     | 10.50                                     | 5.54   | 35.0                       | 36.3  |
| 4-24-12 (Muriate) "Big Crop Brand"                                       |          |   |        |                            |       |
| 7044 Cave City Ice & Coal Co., Cave City                                 | 3.89     | 23.90                                     | 12.04  | 56.8                       | 56.5  |
| 7045 Sam Ryle, Burlington  | 3.94     | 24.80                                     | 11.98  | 56.8                       | 57.6  |
| 7711 Pineville Fruit Store, Pineville                                    | 3.90     | 23.48                                     | 11.70  | 56.8                       | 55.7  |
| 4-16-16 (Muriate) "Big Crop Brand"                                       |          |   |        |                            |       |
| 7046 Sam Ryle, Burlington  | 3.85     | 16.10                                     | 14.46  | 51.2                       | 49.5  |
| 4-12-8 (Muriate) "Big Crop Brand"  |          |   |        |                            |       |
| 6649 A. A. Clay & Son, Winchester  | 4.12     | 12.45                                     | 8.15   | 38.4                       | 39.3  |
| 6950 Birmingham Milling Co., Benton                                      | 4.11     | 12.03                                     | 8.10   | 38.4                       | 38.8  |
| 7047 Sphar & Co., Winchester   | 4.64     | 11.90                                     | 7.97   | 38.4                       | 39.5  |
| 7712 Harralson Seed Co., Owensboro                                       | 4.06     | 12.08                                     | 8.04   | 38.4                       | 38.7  |
| 4-12-8 (Sulfate) Armour's  |          |   |        |                            |       |
| 6782 N. S. Dudley & Son, Flemingsburg                                    | 4.15     | 12.05                                     | 8.21   | 38.4                       | 39.0  |
| 6881 Camargo Farmers Supply, Camargo                                     | 4.37     | 12.03                                     | 8.65   | 38.4                       | 39.8  |
| 7048 Leslie Bailey, Corinth  | 4.06     | 12.78                                     | 8.07   | 38.4                       | 39.5  |
| 7049 H. D. Jones, Glasgow  | 4.01     | 12.10                                     | 7.77   | 38.4                       | 38.3  |
| 7050 Irvington Truck Lines, Irvington                                    | 4.05     | 12.80                                     | 8.15   | 38.4                       | 39.6  |
| 7161 T. G. Smither, Bagdad   | 3.92     | 12.40                                     | 8.21   | 38.4                       | 38.9  |
| 7162 Duncan-Hughes Co., LaGrange   | 3.99     | 12.40                                     | 7.98   | 38.4                       | 38.8  |
| c. Excess muriate equivalent to 2.73 percent potash                      |          |   |        |                            |       |
| d. " " " " 0.54 " "  |          |   |        |                            |       |
| " " " " 0.47 " "   |          |   |        |                            |       |
| * " " " " 0.26 " "   |          |   |        |                            |       |

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty<br>Station No. and From Whom Obtained | Nitrogen    | Phos-<br>phoric<br>Acid<br>Avail-<br>able | Potash | Index of<br>Relative Value |       |
|--|-------------|---|--------|----------------------------|-------|
|  |             |   |        | Guar.                      | Found |
| ARMOUR FERTILIZER WORKS, (Cont'd)  |             |   |        |                            |       |
| 4-12-8 (Sulfate) Armour's (Cont'd)                                       |             |   |        |                            |       |
| 7283 Frank Ballard, Springfield  | 4.03        | 12.30                                     | 8.24   | 38.4                       | 39.1  |
| 7386 Cass & Cash, Brodhead   | 4.11        | 12.90                                     | 7.97   | 38.4                       | 39.7  |
| 7387 Marattay Brothers, Taylorsville                                     | 4.04        | 12.20                                     | 8.19   | 38.4                       | 38.9  |
| 7388 Skelton's General Store, Shelbyville                                | 4.08        | 11.95                                     | 8.66   | 38.4                       | 39.2  |
| 7713 London Hardware Co., London   | 4.25        | 12.08                                     | 8.15   | 38.4                       | 39.2  |
| 7769 Guy Armes Impl. Co., Hardinsburg                                    | 4.19        | 12.00                                     | 8.29   | 38.4                       | 39.1  |
| 7770 Farmers Supply Co., Eminence  | 4.17        | 11.95                                     | 8.21   | 38.4                       | 38.9  |
| 4-12-8 (Sulfate) Armour's "Vertagreen Brand"                             |             |   |        |                            |       |
| 7051 Pruitt Implement Co., Bowling Green                                 | 4.11        | 12.20                                     | 8.29   | 38.4                       | 39.2  |
| 7160 S. E. Hale & Son, Greenville  | 4.04        | 11.75                                     | 7.99f  | 38.4                       | 38.2  |
| 7657 U. L. Rogers, Columbia  | 4.06        | 12.40                                     | 7.92   | 38.4                       | 38.9  |
| 4-12-4 (Muriate) Old Black Joe   |             |   |        |                            |       |
| 6711 Hinch and Co., Marion   | 4.00        | 12.38                                     | 3.96   | 34.4                       | 34.8  |
| 7052 Wallace Hdw. Store, Central City                                    | 4.03        | 12.20                                     | 4.67   | 34.4                       | 35.4  |
| 4-12-4 (Muriate) "Big Crop Brand"  |             |   |        |                            |       |
| 6783 Slaughters Mercantile Co., Slaughters                               | 4.15        | 11.80                                     | 4.41   | 34.4                       | 34.9  |
| 7509 Ravenna Grocery, Ravenna  | 3.91        | 12.30                                     | 4.35   | 34.4                       | 34.9  |
| 7714 Middlesboro Wholesale Grocery, Middlesboro                          | <u>3.63</u> | 11.50                                     | 4.72   | 34.4                       | 33.8  |
| 4-12-4 (Sulfate) Armour's  |             |   |        |                            |       |
| 6882 Keeton Wholesale Company, Grassy Creek                              | 4.03        | 12.75                                     | 4.55   | 34.4                       | 35.9  |
| 6951 Bullock & Bullock, Mt. Vernon                                       | 3.93        | 12.50                                     | 4.69   | 34.4                       | 35.6  |
| 7284 Terrell's Grocery, Campton  | 3.77        | 12.90                                     | 4.97   | 34.4                       | 36.0  |
| 7285 Mt. Sherman Hdw. Co., Mt. Sherman                                   | 3.98        | 12.70                                     | 5.10g  | 34.4                       | 36.3  |
| 7389 Trimble County Farm Bureau, Milton                                  | 4.15        | 12.40                                     | 4.87   | 34.4                       | 36.1  |
| 7390 Skelton's General Store, Shelbyville                                | 4.10        | 11.90                                     | 4.77   | 34.4                       | 35.3  |
| 7510 Carlisle Mill & Supply Co., Carlisle                                | 4.11        | 12.90                                     | 4.89   | 34.4                       | 36.6  |
| 3-12-12 (Muriate) "Big Crop Brand"                                       |             |   |        |                            |       |
| 6784 O. C. Whitfield, Madisonville                                       | 3.16        | 11.85                                     | 13.14  | 40.4                       | 41.7  |
| 6883 Page Implement Co., Barlow  | 3.22        | 11.78                                     | 11.86  | 40.4                       | 40.4  |
| 7391 Cass & Cash, Brodhead   | 3.00        | 12.10                                     | 12.14  | 40.4                       | 40.7  |
| 7511 D. H. Tate, Monticello  | 3.25        | 11.90                                     | 12.09  | 40.4                       | 40.9  |
| 3-12-12 (Sulfate) Armour's   |             |   |        |                            |       |
| 7715 Harralson Seed Company, Owensboro                                   | 3.17        | <u>11.33</u>                              | 12.53  | 40.4                       | 40.5  |
| 3-12-6 (Muriate) Old Black Joe   |             |   |        |                            |       |
| 6674 Wallace Brothers Lumber Co., Hartford                               | 3.14        | 11.90                                     | 6.93   | 34.4                       | 35.5  |
| 6684 Truman Hollingsworth & Co., Tompkinsville                           | 3.11        | 12.25                                     | 6.24   | 34.4                       | 35.2  |
| 6785 O. C. Whitfield, Madisonville                                       | 2.98        | 12.00                                     | 6.05   | 34.4                       | 34.4  |
| 6884 Farmers Elevator Co., Franklin                                      | 3.14        | 11.90                                     | 6.49   | 34.4                       | 35.1  |
| 6952 Gibson Produce Co., Monticello                                      | <u>2.73</u> | <u>11.35</u>                              | 7.58   | 34.4                       | 34.7  |
| 7053 Sphar & Co., Winchester   | <u>3.21</u> | <u>12.30</u>                              | 6.41   | 34.4                       | 35.6  |
| 7286 Terrell's Grocery, Campton  | 2.94        | 11.90                                     | 6.15   | 34.4                       | 34.3  |
| 7287 Mt. Sherman Hdw. Co., Mt. Sherman                                   | 3.05        | <u>11.40</u>                              | 6.17   | 34.4                       | 34.0  |

f. Excess muriate equivalent to 1.19 percent potash

g. Excess muriate equivalent to 0.46 percent potash

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Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained | Nitrogen | Phosphoric Acid Available | Potash | Index of Relative Value |       |
|---|----------|---------------------------|--------|-------------------------|-------|
|   |          |                           |        | Guar.                   | Found |
| ARMOUR FERTILIZER WORKS, (Cont'd)                                     |          |                           |        |                         |       |
| 3-12-6 (Muriate) Old Black Joe (Cont'd)                               |          |                           |        |                         |       |
| 7392 Laswell Milling Co., Brodhead                                    | 3.24     | 12.20                     | 6.67   | 34.4                    | 35.8  |
| 7393 Farm Equipment Co., Bedford                                      | 2.96     | 12.40                     | 8.43   | 34.4                    | 37.2  |
| 7394 J. T. Beard Feed Store, Crofton                                  | 3.08     | 12.20                     | 6.58   | 34.4                    | 35.4  |
| 7512 Ravenna Grocery, Ravenna   | 3.08     | 12.23                     | 6.18   | 34.4                    | 35.0  |
| 7513 Gilbert & Vanover, Parkers Lake                                  | 3.29     | 12.60                     | 6.38   | 34.4                    | 36.1  |
| 7514 Cincinnati Hay & Grain Co., Covington                            | 2.85     | 12.30                     | 6.08   | 34.4                    | 34.5  |
| 7771 Caneyville Roller Mills, Caneyville                              | 2.89     | 12.10                     | 6.33   | 34.4                    | 34.6  |
| 7772 S. E. Hale & Son, Greenville                                     | 2.88     | 11.90                     | 6.58   | 34.4                    | 34.6  |
| 3-9-6 (Muriate) "Big Crop Brand"                                      |          |                           |        |                         |       |
| 6712 W. J. Amburgey, Means  | 3.04     | 9.23                      | 6.50   | 30.8                    | 31.7  |
| 6786 M. F. Bryant & Sons Mfg. Co., Sebree                             | 3.11     | 9.53                      | 6.24   | 30.8                    | 31.9  |
| 6953 Bullock & Bullock, Mt. Vernon                                    | 3.06     | 9.48                      | 6.60   | 30.8                    | 32.1  |
| 7054 Watkins Wholesale Co., E. Bernstadt                              | 2.92     | 9.85                      | 6.78   | 30.8                    | 32.4  |
| 7055 Roberts Bros. Feed Store, Lewisport                              | 3.11     | 9.10                      | 6.30   | 30.8                    | 31.4  |
| 7056 Peoples Ice & Coal Co., Smiths Grove                             | 2.97     | 9.00                      | 6.63   | 30.8                    | 31.4  |
| 7057 Harralson Seed Co., Owensboro                                    | 3.00     | 9.50                      | 5.99   | 30.8                    | 31.4  |
| 7288 Cadiz Hdw. Co., Cadiz  | 2.96     | 9.90                      | 6.11   | 30.8                    | 31.9  |
| 7395 Leslie County Grocery, Hyden                                     | 3.01     | 9.50                      | 6.34   | 30.8                    | 31.8  |
| 7515 Anderson Grocery, Pine Knot                                      | 2.92     | 9.70                      | 5.99   | 30.8                    | 31.5  |
| 7773 A. C. Roberts, Scottsville                                       | 3.08     | 9.60                      | 6.14   | 30.8                    | 31.8  |
| 3-9-6 (Sulfate) Armour's  |          |                           |        |                         |       |
| 6713 W. J. Amburgey, Means  | 2.97     | 9.15                      | 6.83   | 30.8                    | 31.8  |
| 6714 Charles Click, Sand Gap  | 3.14     | 9.40                      | 6.48   | 30.8                    | 32.0  |
| 6885 Salyersville Wholesale Grocery, Salyersville                     | 3.27     | 9.90                      | 6.34   | 30.8                    | 32.8  |
| 6954 Bullock & Bullock, Mt. Vernon                                    | 3.20     | 9.65                      | 6.42   | 30.8                    | 32.4  |
| 7058 L. H. Gilley, Lecta  | 3.05     | 9.40                      | 5.93   | 30.8                    | 31.3  |
| 7059 H. D. Jones, Glasgow   | 3.05     | 9.10                      | 6.09   | 30.8                    | 31.1  |
| 7396 J. E. Lisby, Mt. Eden  | 3.02     | 9.90                      | 6.50   | 30.8                    | 32.4  |
| 7397 Globmeyer Lumber & Coal Co., Carrollton                          | 3.18     | 9.50                      | 6.81   | 30.8                    | 32.6  |
| 7516 Ravenna Grocery, Ravenna   | 3.03     | 9.10                      | 5.80   | 30.8                    | 30.8  |
| 7658 U. L. Rogers, Columbia   | 3.08     | 9.15                      | 5.90   | 30.8                    | 31.0  |
| 7774 Henderson & Hardy, Shepherdsville                                | 3.06     | 9.00                      | 5.94   | 30.8                    | 30.9  |
| 2-12-6 (Muriate) "Big Crop Brand"                                     |          |                           |        |                         |       |
| 6685 Richardson Brothers, Eighty-Eight                                | 2.00     | 12.23                     | 6.17   | 32.4                    | 32.9  |
| 6715 Wilson Farm Supply, Trenton                                      | 2.17     | 12.38                     | 6.31   | 32.4                    | 33.5  |
| 6716 Lilly Brothers Seed Co., Hopkinsville                            | 2.13     | 12.50                     | 6.29   | 32.4                    | 33.6  |
| 6787 Worley & Crain, Perryville                                       | 2.02     | 11.98                     | 6.00   | 32.4                    | 32.4  |
| 6955 Jim Pyles, Junction City   | 1.99     | 12.03                     | 6.54   | 32.4                    | 33.0  |
| 6956 D. H. Tate, Monticello   | 2.22     | 12.00                     | 6.16   | 32.4                    | 33.0  |
| 6957 Bullock & Bullock, Mt. Vernon                                    | 1.91     | 11.80                     | 6.38   | 32.4                    | 32.4  |
| 7060 M. G. Pruitt Impl. Co., Bowling Green                            | 2.03     | 12.40                     | 5.98   | 32.4                    | 32.9  |
| 7061 J. C. Everett & Co., Maysville                                   | 2.08     | 12.93                     | 6.42   | 32.4                    | 34.1  |
| 7062 Kent Miller's Store, Sacramento                                  | 2.18     | 12.70                     | 6.05   | 32.4                    | 33.8  |
| 7063 H. D. Jones, Glasgow   | 2.09     | 12.25                     | 5.79   | 32.4                    | 32.7  |
| 7163 Caneyville Roller Mills, Caneyville                              | 1.92     | 12.00                     | 6.66   | 32.4                    | 32.9  |

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained | Nitrogen | Phosphoric Acid Available | Potash | Index of Relative Value |       |
|---|----------|---------------------------|--------|-------------------------|-------|
|   |          |                           |        | Guar.                   | Found |
| ARMOUR FERTILIZER WORKS (Cont'd)                                      |          |                           |        |                         |       |
| 2-12-6 (Muriate) "Big Crop Brand" (Cont'd)                            |          |                           |        |                         |       |
| 7289 G. M. Haycraft & Sons, Leitchfield                               | 2.27     | 12.00                     | 5.93   | 32.4                    | 32.9  |
| 7398 Stafford Osborne, Deatsville                                     | 2.27     | 12.00                     | 6.50   | 32.4                    | 33.4  |
| 7399 Cass and Cash, Brodhead  | 2.06     | 12.00                     | 5.76   | 32.4                    | 32.3  |
| 7603 G. W. Bowling & Sons, Catlettsburg                               | 3.67     | 11.30                     | 7.69   | 32.4                    | 36.6  |
| 7716 Allen's Coal Service, Brandenburg                                | 2.13     | 12.03                     | 6.39   | 32.4                    | 33.1  |
| 7717 Wallace Brothers Hdw. Co., Hartford                              | 2.34     | 11.95                     | 6.16   | 32.4                    | 33.2  |
| 7718 London Hardware Co., London                                      | 2.18     | 12.30                     | 6.04   | 32.4                    | 33.2  |
| 0-20-20 (Muriate) "Big Crop Brand"                                    |          |                           |        |                         |       |
| 6958 Liberty Hardware Co., Liberty                                    | ....     | 20.25                     | 19.16  | 50.0                    | 49.5  |
| 7064 J. A. Bennett Hdw. Co., Taylorsville                             | ....     | 20.30                     | 19.96  | 50.0                    | 50.3  |
| 7065 Sphar & Co., Winchester  | ....     | 19.15                     | 19.50  | 50.0                    | 48.5  |
| 7164 Caneyville Roller Mills, Caneyville                              | ....     | 20.50                     | 20.64  | 50.0                    | 51.2  |
| 7604 Farmers Supply Co., Hodgenville                                  | ....     | 20.30                     | 19.64  | 50.0                    | 50.0  |
| 7775 Brown Auto & Elec. Co., West Liberty                             | ....     | 20.20                     | 19.76  | 50.0                    | 50.0  |
| 0-14-7 (Muriate) "Big Crop Brand"                                     |          |                           |        |                         |       |
| 7066 M. G. Pruitt Impl. Co., Bowling Green                            | ....     | 14.40                     | 7.25   | 29.8                    | 30.5  |
| 7165 Duncan-Hughes Co., LaGrange                                      | ....     | 13.80                     | 7.97   | 29.8                    | 30.5  |
| 7166 J. B. Albright, Eubanks  | ....     | 14.70                     | 7.60   | 29.8                    | 31.2  |
| 7290 G. M. Haycraft & Sons, Leitchfield                               | ....     | 14.13                     | 7.95   | 29.8                    | 30.9  |
| 7605 H. B. McClary, Auburn  | ....     | 14.80                     | 6.48   | 29.8                    | 30.2  |
| 7606 13th. Street Market, Ashland                                     | ....     | 14.50                     | 6.76   | 29.8                    | 30.2  |
| 7719 Harlan Fruit Co., Harlan   | ....     | 14.05                     | 7.89   | 29.8                    | 30.8  |
| 0-12-12 (Muriate) "Big Crop Brand"                                    |          |                           |        |                         |       |
| 7291 Jones General Store, Burkesville                                 | ....     | 11.95                     | 12.54  | 32.4                    | 32.9  |
| 7292 Terrell's Grocery, Campton                                       | ....     | 12.20                     | 12.72  | 32.4                    | 33.4  |
| 7517 Ravenna Grocery, Ravenna   | ....     | 11.90                     | 12.66  | 32.4                    | 32.9  |
| 7776 R. L. Harned, Custer   | ....     | 12.00                     | 12.94  | 32.4                    | 33.3  |
| 7777 Caneyville Roller Mills, Caneyville                              | ....     | 11.98                     | 11.56  | 32.4                    | 31.9  |
| 20% Superphosphate "Big Crop Brand"                                   |          |                           |        |                         |       |
| 6650 Camargo Farmers Supply, Camargo                                  | ....     | 20.10                     | ....   | 26.0                    | 26.1  |
| 6675 Wallace Bros. Lumber Co., Hartford                               | ....     | 19.45                     | ....   | 26.0                    | 25.3  |
| 6686 Allen County Farmers Service, Scottsville                        | ....     | 19.13                     | ....   | 26.0                    | 24.9  |
| 6717 W. J. Amburgey, Means  | ....     | 20.08                     | ....   | 26.0                    | 26.1  |
| 6718 Lilly Brothers Seed Co., Hopkinsville                            | ....     | 20.33                     | ....   | 26.0                    | 26.4  |
| 6627 Salyersville Wholesale Co., Salyersville                         | ....     | 20.03                     | ....   | 26.0                    | 26.0  |
| 6886 Farmers Gin Co., Clinton   | ....     | 19.65                     | ....   | 26.0                    | 25.6  |
| 6959 D. H. Tate, Monticello   | ....     | 20.23                     | ....   | 26.0                    | 26.3  |
| 6960 Lee Cornett, Datha   | ....     | 20.00                     | ....   | 26.0                    | 26.0  |
| 7067 Wallace Brothers Lumber Co., Hartford                            | ....     | 19.95                     | ....   | 26.0                    | 25.9  |
| 7068 Hulett Hardware Co., Williamstown                                | ....     | 20.85                     | ....   | 26.0                    | 27.1  |
| 7069 Sphar & Co., Winchester  | ....     | 20.98                     | ....   | 26.0                    | 27.3  |
| 7400 Laswell Milling Co., Brodhead                                    | ....     | 20.20                     | ....   | 26.0                    | 26.3  |
| 7518 Pendleton County Mills, Falmouth                                 | ....     | 19.45                     | ....   | 26.0                    | 25.3  |
| 7778 Henderson & Hardy, Shepherdsville                                | ....     | 20.10                     | ....   | 26.0                    | 26.1  |
| 33.50% Ammonium Nitrate   |          |                           |        |                         |       |
| 6687 Truman Hollingsworth & Co., Tompkinsville                        | 33.44    | .....                     | ....   | 67.0                    | 66.9  |



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Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty<br>Station No. and From Whom Obtained | Nitrogen | Phos-<br>phoric<br>Acid<br>Avail-<br>able | Potash | Index of<br>Relative Value |       |
|--|----------|---|--------|----------------------------|-------|
|  |          |   |        | Guar.                      | Found |
| ARMOUR FERTILIZER WORKS, (Cont'd)  |          |   |        |                            |       |
| 60% Muriate of Potash  |          |   |        |                            |       |
| 6676 J. A. Bennett Hdw. Co., Taylorsville                                | ....     | .....                                     | 60.56  | 54.0                       | 54.5  |
| 50% Muriate of Potash  |          |   |        |                            |       |
| 7401 Alvin McCord, Hopkinsville  | ....     | .....                                     | 51.20  | 45.0                       | 46.1  |
| 48% Sulfate of Potash  |          |   |        |                            |       |
| 6719 Charles Click, Sand Gap   | ....     | .....                                     | 49.56  | 52.8                       | 54.5  |
| 6788 Fayette Coal & Feed Co., Lexington                                  | ....     | .....                                     | 52.08  | 52.8                       | 57.3  |
| 6887 Camargo Farmers Supply, Camargo                                     | ....     | .....                                     | 51.44h | 52.8                       | 56.6  |
| 6961 Anderson & Spilman, Danville  | ....     | .....                                     | 51.92  | 52.8                       | 57.1  |
| 7070 J. C. Everett & Co., Maysville                                      | ....     | .....                                     | 50.60  | 52.8                       | 55.7  |
| 7167 T. G. Smither, Bagdad   | ....     | .....                                     | 50.56  | 52.8                       | 55.6  |
| ASSOCIATED COOPERATIVES, INC.,<br>Sheffield, Ala.                        |          |   |        |                            |       |
| 62% Calcium Metaphosphate  |          |   |        |                            |       |
| 6962 Southern States Co-op., Fulton                                      | ....     | 62.30                                     | ....   | 80.6                       | 81.0  |
| 7071 Stewart & Co., Munfordville   | ....     | 61.65                                     | ....   | 80.6                       | 80.2  |
| 7168 Farmers Cooperative, Madisonville                                   | ....     | 62.23                                     | ....   | 80.6                       | 80.9  |
| 7293 Southern States Co-op., Bardstow                                    | ....     | 61.43                                     | ....   | 80.6                       | 79.9  |
| 49% Superphosphate   |          |   |        |                            |       |
| 6651 Southern States Co-op., Glasgow                                     | ....     | 49.03                                     | ....   | 63.7                       | 63.7  |
| 48% Superphosphate   |          |   |        |                            |       |
| 6688 Farmers Supply Co., Paintsville                                     | ....     | 48.85                                     | ....   | 62.4                       | 63.5  |
| 45% Superphosphate   |          |   |        |                            |       |
| 7519 Ballard County Co-op., LaCenter                                     | ....     | 45.4                                      | ....   | 58.5                       | 59.0  |
| 33% Ammonium Nitrate   |          |   |        |                            |       |
| 6689 Farmers Supply Company, Paintsville                                 | 33.40    | .....                                     | ....   | 66.0                       | 66.8  |
| 16% Nitrate of Soda - Arcadian the American                              |          |   |        |                            |       |
| 7520 Wolfinbarger Grocery, West Irvine                                   | 16.16    | .....                                     | ....   | 48.0                       | 48.5  |
| BLUE GRASS PLANT FOODS, INC.,<br>Cynthiana, Ky.                          |          |   |        |                            |       |
| 6-8-6 (Sulfate) "Blue Grass Brand"                                       |          |   |        |                            |       |
| 6789 Ravenna Grocery, Ravenna  | 5.92     | 8.43                                      | 6.01   | 35.6                       | 36.0  |
| 7072 Davis Gillespie, Mayslick   | 5.94     | 8.35                                      | 6.05   | 35.6                       | 36.0  |
| 7169 C. T. Ashley & Co., Nicholasville                                   | 6.01     | 8.90                                      | 6.16   | 35.6                       | 36.9  |
| 7402 Mountain Dew Coal Co., Lexington                                    | 6.26     | 8.43                                      | 6.08   | 35.6                       | 36.7  |
| 7521 F. G. Barlow, Cynthiana   | 5.90     | 8.30                                      | 6.39   | 35.6                       | 36.2  |
| 7779 J. H. Meyers, Ewing   | 5.83     | 8.23                                      | 5.99   | 35.6                       | 35.5  |
| 6-8-6 (Muriate 3, Sulfate 3) "Blue Grass Brand"                          |          |   |        |                            |       |
| 7607 Sandy Valley Grocery, Paintsville                                   | 5.80     | 8.10                                      | 6.08   | 35.6                       | 35.4  |

h. Excess muriate equivalent to 0.59 percent potash

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained | Nitrogen    | Phos-phoric Acid Avail-able | Potash       | Index of Relative Value |       |
|---|-------------|-----------------------------|--------------|-------------------------|-------|
|   |             |                             |              | Guar.                   | Found |
| BLUE GRASS PLANT FOODS, INC., (Cont'd)                                |             |                             |              |                         |       |
| 4-12-8 (Sulfate) "Blue Grass Brand"                                   |             |                             |              |                         |       |
| 7170 C. T. Ashley & Co., Nicholasville                                | 3.99        | 12.80                       | 8.26         | 38.4                    | 39.6  |
| 7171 T. M. Ruggles, Charters  | 4.26        | 12.90                       | 8.25         | 38.4                    | 40.3  |
| 7403 Mountain Dew Coal Co., Lexington                                 | 4.46        | 12.20                       | 8.61         | 38.4                    | 40.2  |
| 3-12-12 (Muriate) "Blue Grass Brand"                                  |             |                             |              |                         |       |
| 7404 Julius & Carl Fister, Lexington                                  | 3.69        | <u>11.20</u>                | 12.54        | 40.4                    | 41.4  |
| 3-12-12 (Muriate 3, Sulfate 9)  |             |                             |              |                         |       |
| 6790 Davis Gillespie, Mayslick  | 3.14        | 12.08                       | 12.11        | 40.4                    | 40.9  |
| 7522 Geo. W. Fryman, Cynthiana  | 3.29        | 12.70                       | 12.21        | 40.4                    | 42.0  |
| 3-9-6 (Muriate) "Blue Grass Brand"                                    |             |                             |              |                         |       |
| 6791 Ravenna Grocery, Ravenna   | 3.08        | 8.93                        | 6.36         | 30.8                    | 31.2  |
| 7294 Merchants Grocery, Pikeville                                     | 3.09        | 9.18                        | 6.35         | 30.8                    | 31.6  |
| 7523 F. G. Barlow, Cynthiana  | 3.12        | 9.60                        | 6.31         | 30.8                    | 32.1  |
| 7659 Letcher Grocery, Whitesburg                                      | 3.04        | 9.13                        | 6.23         | 30.8                    | 31.3  |
| 3-9-6 (Sulfate) "Blue Grass Brand"                                    |             |                             |              |                         |       |
| 6792 Ravenna Grocery, Ravenna   | 3.02        | 9.40                        | 5.80         | 30.8                    | 31.1  |
| 7073 Davis Gillespie, Mayslick  | 3.06        | 9.43                        | 6.17         | 30.8                    | 31.6  |
| 2-12-6 (Muriate) "Blue Grass Brand"                                   |             |                             |              |                         |       |
| 6793 Ravenna Grocery, Ravenna   | 2.25        | 12.05                       | 6.44         | 32.4                    | 33.4  |
| 7172 T. M. Ruggles, Charters  | 2.32        | 11.90                       | 6.62         | 32.4                    | 33.5  |
| 7295 Rizer Brothers, Bardstown  | 2.09        | 12.00                       | 6.47         | 32.4                    | 33.1  |
| BUHNER FERTILIZER COMPANY, INC.,<br>Seymour, Indiana                  |             |                             |              |                         |       |
| 6-8-6 (Sulfate)   |             |                             |              |                         |       |
| 6794 J. W. Dawson, Lawrenceburg                                       | 5.84        | 7.98                        | 7.06*        | 35.6                    | 36.3  |
| 6963 J. W. Settle Feed Store, Frankfort                               | 5.99        | 8.45                        | 6.58         | 35.6                    | 36.7  |
| 7173 Buhner & Co., Louisville   | 6.07        | 8.00                        | 6.38         | 35.6                    | 36.1  |
| 7405 Cann's Feed Store, Clarkson                                      | 5.87        | 8.78                        | 6.35         | 35.6                    | 36.6  |
| 6-8-6 (Muriate 3, Sulfate 3)  |             |                             |              |                         |       |
| 7174 Central State Hospital, Lakeland                                 | <u>5.54</u> | 7.80                        | 6.42 i       | 35.6                    | 34.9  |
| 4-4-16 (Sulfate)  |             |                             |              |                         |       |
| 7660 Springfield Feed & Grain Co., Springfield                        | <u>3.64</u> | 5.45                        | <u>14.84</u> | 36.8                    | 36.7  |
| 3-12-12 (Muriate)   |             |                             |              |                         |       |
| 7175 Buhner & Co., Louisville   | 2.99        | 12.40                       | 12.47        | 40.4                    | 41.3  |
| 7406 Cann's Feed Store, Clarkson                                      | 3.05        | 12.00                       | 12.51        | 40.4                    | 41.0  |
| 3-12-12 (Sulfate)   |             |                             |              |                         |       |
| 6795 J. W. Dawson, Lawrenceburg                                       | 3.16        | 11.93                       | 11.81        | 40.4                    | 40.5  |
| 6964 J. W. Settle Feed Store, Frankfort                               | 3.09        | 12.48                       | 11.99 j      | 40.4                    | 41.2  |
| 7176 Farmers Supply Co., Shelbyville                                  | 3.17        | 12.00                       | 12.32        | 40.4                    | 41.1  |
| 7177 Shepherdsville Feed Mill, Shepherdsville                         | 2.92        | 13.20                       | 12.70 +      | 40.4                    | 42.4  |

\* Excess muriate equivalent to 0.33 percent potash

|    |   |   |   |      |   |   |
|----|---|---|---|------|---|---|
| i. | " | " | " | 1.92 | " | " |
| j. | " | " | " | 0.34 | " | " |
|    | " | " | " | 1.36 | " | " |

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Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained                | Nitrogen | Phosphoric Acid Available | Potash | Index of Relative Value |             |
|--|----------|---------------------------|--------|-------------------------|-------------|
|  |          |                           |        | Guar.                   | Found       |
| <b>BUHNER FERTILIZER COMPANY, INC., (Cont'd)</b>                                     |          |                           |        |                         |             |
| 3-9-6 (Muriate)<br>7407 Cann's Feed Store, Clarkson                                  | 2.85     | 9.40                      | 6.53   | 30.8                    | 31.5        |
| 2-12-6 (Muriate)<br>6888 Milton Edwards, Hardyville                                  | 2.15     | 11.25                     | 7.04   | 32.4                    | 32.8        |
| 7178 Buhner & Co., Louisville  | 2.26     | <u>11.55</u>              | 6.75   | 32.4                    | 33.1        |
| 0-12-12 (Muriate)<br>6720 Cruse Brothers, Upton                                      | ....     | 11.60                     | 12.14  | 32.4                    | 32.1        |
| 7179 Fern Creek Feed & Hdw. Co., Buechel   | ....     | <u>12.10</u>              | 12.37  | 32.4                    | 32.9        |
| <b>BURLEY BELT PLANT FOOD WORKS,<br/>Lexington, Ky.</b>                              |          |                           |        |                         |             |
| 6-8-6 (Sulfate)<br>6889 Birch, Gabbard & Turner, Booneville                          | 5.95     | 8.10                      | 6.19   | 35.6                    | 35.8        |
| 7180 Southern States Co-op., Shelbyville   | 5.99     | 8.20                      | 6.07   | 35.6                    | 35.9        |
| 7296 Southern States Co-op., Lebanon   | 6.01     | 8.30                      | 6.19   | 35.6                    | 36.2        |
| 7524 Southern States Co-op., Carlisle  | 6.17     | 8.10                      | 6.16   | 35.6                    | 36.2        |
| 7720 Southern States Co-op., Elizabethtown   | 5.83     | 8.15                      | 6.57   | 35.6                    | 36.0        |
| 4-12-12 (Sulfate)<br>7661 Southern States Co-op., Bardstown                          | 4.38     | <u>11.50</u>              | 11.98  | 42.4                    | 42.5        |
| 4-12-8 (Sulfate)<br>6890 Birch, Gabbard & Turner, Booneville                         | 4.04     | 11.05                     | 8.15   | 38.4                    | 37.5        |
| 7181 Southern States Co-op., Shelbyville   | 4.28     | <u>11.00</u>              | 8.26   | 38.4                    | 38.0        |
| 7182 Peck's Farmers Supply, Sharpsburg   | 4.17     | <u>11.43</u>              | 8.00   | 38.4                    | 38.1        |
| 3-9-6 (Sulfate)<br>7183 Peck's Farmers Supply, Sharpsburg                            | 3.10     | 8.40                      | 5.90   | 30.8                    | 30.2        |
| 7525 Clark County Hatchery, Winchester   | 3.14     | <u>8.08</u>               | 5.90   | 30.8                    | 29.9        |
| <b>CHEMICAL FORMULATORS,<br/>N. Charleston, W. Va.</b>                               |          |                           |        |                         |             |
| 3-9-6 (Muriate) "Chemform Brand"<br>7608 Ashland Grocery, Ashland                    | 2.68     | <u>8.35</u>               | 6.16   | 30.8                    | <u>29.5</u> |
| <b>CHILEAN NITRATE SALES CORPORATION,<br/>New York, N. Y.</b>                        |          |                           |        |                         |             |
| 16% Nitrate of Soda, Chilean "Champion Brand"<br>6891 Powell Hackney Grocery, Hazard | 16.16    | .....                     | ....   | 48.0                    | 48.5        |
| 7074 Thomerson Milling Co., Glasgow  | 16.32    | .....                     | ....   | 48.0                    | 49.0        |
| 7075 Farmers Feed & Supply Co., London   | 16.20    | .....                     | ....   | 48.0                    | 48.6        |
| <b>COMMONWEALTH FERTILIZER COMPANY,<br/>Russellville, Ky.</b>                        |          |                           |        |                         |             |
| 6-8-6 (Muriate) Indian Head Brand<br>7408 Princeton Mills, Princeton                 | 5.92     | 8.90                      | 6.45   | 35.6                    | 37.0        |
| 7609 Princeton Mills, Princeton  | 5.94     | 8.80                      | 6.49   | 35.6                    | 36.9        |
| 7610 Manufacturer's warehouse  | 6.04     | 8.40                      | 6.61   | 35.6                    | 36.8        |

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty<br>Station No. and From Whom Obtained                        | Nitrogen | Phos-<br>phoric<br>Acid<br>Avail-<br>able | Potash | Index of<br>Relative Value |       |
|---|----------|---|--------|----------------------------|-------|
|   |          |   |        | Guar.                      | Found |
| COMMONWEALTH FERTILIZER COMPANY, (Cont'd)   |          |   |        |                            |       |
| 4-12-4 (Muriate) Indian Head Brand<br>6628 Manufacturer's warehouse                             | 4.14     | 12.03                                     | 4.29   | 34.4                       | 35.0  |
| 3-12-12 (Muriate 3, Sulfate 9) Indian Head Brand<br>7611 McGehee & Griss Produce Co., Lewisburg | 3.04     | 12.60                                     | 12.34  | 40.4                       | 41.5  |
| 3-9-6 (Muriate) Indian Head Brand<br>7612 McGehee and Griss Produce Co., Lewisburg              | 3.04     | 9.20                                      | 6.15   | 30.8                       | 31.3  |
| 2-12-6 (Muriate) Indian Head Brand<br>7409 Warren Elevator, Guthrie                             | 2.12     | 12.80                                     | 6.11   | 32.4                       | 33.7  |
| 7721 Young Lumber Co., Beaver Dam   | 2.21     | 11.68                                     | 7.51   | 32.4                       | 34.0  |
| 0-12-12 (Muriate) Indian Head Brand<br>6892 Manufacturer's warehouse                            | ....     | 12.20                                     | 11.45  | 32.4                       | 32.1  |
| CONSOLIDATED CHEMICAL CO., Div. Price Chem. Co.,<br>Louisville, Ky.                             |          |   |        |                            |       |
| 6-8-6 (Muriate) Camel Brand<br>6893 Adams & Murphy, Wellington                                  | 5.97     | 9.30                                      | 6.94   | 35.6                       | 38.0  |
| 6-8-6 (Sulfate) Camel Brand<br>7184 J. K. Kincaid, Hawesville                                   | 6.06     | 8.60                                      | 6.57   | 35.6                       | 37.0  |
| 7297 Haydon Coal & Oil Co., Springfield   | 6.41     | 8.80                                      | 6.42   | 35.6                       | 37.8  |
| 7662 W. R. Tumey, Mackville   | 6.06     | 8.80                                      | 8.02   | 35.6                       | 38.7  |
| 3-12-12 (Sulfate) Camel Brand<br>7298 Haydon Coal & Oil Co., Springfield                        | 3.14     | 12.30                                     | 13.44  | 40.4                       | 42.5  |
| 3-9-6 (Muriate) Camel Brand<br>7185 J. K. Kincaid, Hawesville                                   | 3.12     | 9.20                                      | 6.24   | 30.8                       | 31.5  |
| 7299 Valley Farm Store, Valley Station  | 3.60     | 9.90                                      | 6.30   | 30.8                       | 33.4  |
| 7526 Kenneth Stewart, North Middletown  | 2.91     | 9.60                                      | 6.75   | 30.8                       | 32.1  |
| 2-12-6 (Muriate) Camel Brand<br>6723 Farmers Supply Center, Leitchfield                         | 2.64     | 12.30                                     | 6.49   | 32.4                       | 34.5  |
| COOPERATIVE FERTILIZER SERVICE,<br>Winchester, Ky.  |          |   |        |                            |       |
| 6-8-6 (Sulfate) "Service Quality Brand" Open Formula<br>6652 Southern States Co-op., Carlisle   | 6.17     | 8.33                                      | 6.24   | 35.6                       | 36.6  |
| 6653 Southern States Co-op., Owensboro  | 6.13     | 8.20                                      | 6.32   | 35.6                       | 36.4  |
| 6654 Southern States Co-op., Glasgow  | 6.04     | 8.45                                      | 6.19   | 35.6                       | 36.4  |
| 6677 Southern States Co-op., Hawesville   | 6.15     | 8.23                                      | 6.32   | 35.6                       | 36.5  |
| 6721 Stinson Farm Supply, Horse Cave  | 6.25     | 8.08                                      | 6.50   | 35.6                       | 36.7  |
| 6796 Southern States Co-op., Cynthiana  | 6.16     | 8.45                                      | 6.44   | 35.6                       | 36.9  |
| 6894 Amburgey's Farm Supply, Mt. Sterling   | 6.16     | 8.60                                      | 6.36   | 35.6                       | 37.0  |
| 6965 Calloway Co. Soil Imp. Asso., Murray   | 6.19     | 8.35                                      | 6.35   | 35.6                       | 36.8  |
| 6966 Farmers Supply Co., Monticello   | 6.14     | 8.60                                      | 6.38   | 35.6                       | 37.0  |
| 7076 Southern States Co-op., Elizabethtown  | 6.10     | 8.95                                      | 6.18   | 35.6                       | 37.1  |
| 7186 Southern States Co-op., LaGrange   | 6.01     | 8.90                                      | 6.09   | 35.6                       | 36.8  |

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Table 1 - Analyses of Inspection Samples of Mixed Fertilizers,  
Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty<br>Station No. and From Whom Obtained | Nitrogen | Phos-<br>phoric<br>Acid<br>Avail-<br>able | Potash | Index of<br>Relative Value |       |
|--|----------|---|--------|----------------------------|-------|
|  |          |   |        | Guar.                      | Found |
| COOPERATIVE FERTILIZER SERVICE, (Cont'd)                                 |          |   |        |                            |       |
| 6-8-6 (Sulfate) "Service Quality Brand" Open Formula (Cont'd)            |          |   |        |                            |       |
| 7187 Southern States Co-op., Frankfort                                   | 6.11     | 8.53                                      | 6.42   | 35.6                       | 36.9  |
| 7188 Southern States Co-op., Shelbyville                                 | 6.18     | 8.65                                      | 6.31   | 35.6                       | 37.1  |
| 7527 Farmers Service Store, Jamestown                                    | 6.04     | 8.70                                      | 6.37   | 35.6                       | 36.9  |
| 7528 Harrison Brothers Farm Supply, Berea                                | 6.04     | 8.60                                      | 6.50   | 35.6                       | 36.9  |
| 5-10-10 (Muriate) "Quality Super Brand" Open Formula                     |          |   |        |                            |       |
| 6895 Camargo Farmers Supply, Camargo                                     | 5.08     | 10.40                                     | 10.37  | 40.0                       | 41.0  |
| 7663 Farm & Home Store, Prestonsburg                                     | 5.19     | 10.00                                     | 10.15  | 40.0                       | 40.5  |
| 7664 Pike County Hatchery, Pikeville                                     | 5.24     | 10.00                                     | 10.17  | 40.0                       | 40.7  |
| 4-16-8 (Muriate) Open Formula  |          |   |        |                            |       |
| 6797 Slaughters Mercantile Co., Slaughters                               | 4.05     | 16.00                                     | 8.27   | 43.2                       | 43.6  |
| 6798 Southern States Co-op., Campbellsville                              | 3.94     | 15.85                                     | 8.21   | 43.2                       | 43.1  |
| 6896 Johnson Farm Supply, Lewisburg                                      | 3.94     | 15.93                                     | 7.92   | 43.2                       | 42.9  |
| 7077 Metcalf County Farmers Supply, Edmonton                             | 3.98     | 16.40                                     | 7.99   | 43.2                       | 43.6  |
| 7189 Rowan Farmers Supply, Morehead                                      | 3.90     | 16.90                                     | 7.76   | 43.2                       | 43.8  |
| 7529 Southern States Co-op., Maysville                                   | 4.08     | 16.60                                     | 8.23   | 43.2                       | 44.3  |
| 7530 Southern States Co-op., Paducah                                     | 3.97     | 15.40                                     | 8.35   | 43.2                       | 42.8  |
| 7722 Gibson Farm Service, Barbourville                                   | 4.06     | 15.15                                     | 7.93   | 43.2                       | 42.2  |
| 7723 Southern States Co-op., London                                      | 4.15     | 16.10                                     | 8.35   | 43.2                       | 44.0  |
| 4-12-8 (Muriate) "Quality Super Brand" Open Formula                      |          |   |        |                            |       |
| 6967 Clinton Farmers Supply, Albany                                      | 4.27     | 12.65                                     | 8.33   | 38.4                       | 40.1  |
| 6968 Southern States Co-op., Fulton                                      | 4.29     | 12.25                                     | 9.13   | 38.4                       | 40.4  |
| 7190 Southern States Co-op., Henderson                                   | 4.13     | 12.80                                     | 8.38   | 38.4                       | 40.0  |
| 7665 Pike County Hatchery, Pikeville                                     | 3.98     | 12.00                                     | 8.63   | 38.4                       | 39.0  |
| 4-8-12 (Sulfate) Open Formula  |          |   |        |                            |       |
| 6655 Southern States Cooperative, Carlisle                               | 4.06     | 8.13                                      | 11.98  | 37.6                       | 37.9  |
| 6678 Southern States Co-op., Hawesville                                  | 4.12     | 8.65                                      | 11.83  | 37.6                       | 38.5  |
| 6897 Camargo Farmers Supply, Camargo                                     | 4.13     | 8.68                                      | 12.09  | 37.6                       | 38.8  |
| 6969 Calloway County Soil Imp. Asso., Murray                             | 4.10     | 8.45                                      | 12.58  | 37.6                       | 38.9  |
| 6970 Southern States Co-op., Danville                                    | 4.10     | 8.58                                      | 12.45  | 37.6                       | 39.0  |
| 7078 Southern States Co-op., Maysville                                   | 3.99     | 8.25                                      | 12.23  | 37.6                       | 38.1  |
| 7191 Southern States Co-op., Frankfort                                   | 4.05     | 8.98                                      | 11.69  | 37.6                       | 38.6  |
| 7192 Henry Co. Farm & Home Service, Eminence                             | 4.01     | 8.50                                      | 12.40  | 37.6                       | 38.6  |
| 7300 Southern States Co-op., Bardstown                                   | 3.97     | 8.90                                      | 12.32  | 37.6                       | 36.9  |
| 7301 Slaughters Mercantile Co., Slaughters                               | 4.03     | 8.75                                      | 12.29  | 37.6                       | 38.9  |
| 7410 Stinson Farm Supply, Horse Cave                                     | 4.08     | 8.90                                      | 12.06  | 37.6                       | 38.9  |
| 3-12-6 (Muriate) "Quality Super Brand" Open Formula                      |          |   |        |                            |       |
| 6971 Clinton Farmers Supply, Albany                                      | 3.22     | 12.70                                     | 6.62   | 34.4                       | 36.3  |
| 7531 Farmers Supply Co., Monticello                                      | 3.18     | 12.00                                     | 6.35   | 34.4                       | 35.1  |
| 7613 Southern States Co-op., Clinton                                     | 3.31     | 12.20                                     | 6.42   | 34.4                       | 35.7  |
| 7666 Adair Farmer Service, Columbia                                      | 3.38     | 12.20                                     | 6.38   | 34.4                       | 35.8  |
| 7667 Pike County Hatchery, Pikeville                                     | 3.20     | 12.05                                     | 6.34   | 34.4                       | 35.2  |
| 7724 Southern States Co-op., London                                      | 3.44     | 12.10                                     | 6.46   | 34.4                       | 35.9  |
| 2-12-6 (Muriate) Open Formula  |          |   |        |                            |       |
| 6690 Allen County Farmers Service, Scottsville                           | 2.30     | 12.03                                     | 6.33   | 32.4                       | 33.4  |
| 6722 Southern States Co-op., Leitchfield                                 | 2.59     | 11.98                                     | 6.73   | 32.4                       | 34.3  |

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty<br>Station No. and From Whom Obtained | Nitrogen | Phos-<br>phoric<br>Acid<br>Avail-<br>able | Potash | Index of<br>Relative Value |       |
|--|----------|---|--------|----------------------------|-------|
|  |          |   |        | Guar.                      | Found |
| COOPERATIVE FERTILIZER SERVICE, (Cont'd)                                 |          |   |        |                            |       |
| 2-12-6 (Muriate) Open Formula (Cont'd)                                   |          |   |        |                            |       |
| 6799 Southern States Co-op., Campbellsville                              | 2.10     | 11.80                                     | 6.25   | 32.4                       | 32.6  |
| 6898 Johnson Farm Supply, Lewisburg                                      | 2.14     | 11.53                                     | 6.27   | 32.4                       | 32.4  |
| 6899 Amburgey's Farm Store, Mt. Sterling                                 | 2.22     | 11.93                                     | 6.40   | 32.4                       | 33.2  |
| 7079 Farmers Service Store, Hardinsburg                                  | 2.13     | 12.30                                     | 6.50   | 32.4                       | 33.5  |
| 7193 Southern States Co-op., Shelbyville                                 | 2.10     | 11.28                                     | 6.44   | 32.4                       | 32.2  |
| 7411 Neel's Farm Store, Fordsville                                       | 2.15     | 12.70                                     | 6.23   | 32.4                       | 33.8  |
| 7412 Southern States Co-op., Owenton                                     | 2.14     | 12.90                                     | 6.29   | 32.4                       | 34.1  |
| 7725 Harlan Farmers Supply, Harlan                                       | 2.31     | 12.20                                     | 6.18   | 32.4                       | 33.4  |
| 0-14-14 (Muriate) "Quality Brand"  |          |   |        |                            |       |
| 7080 Southern States Co-op., Owensboro                                   | ....     | 13.40                                     | 14.04  | 36.8                       | 36.1  |
| 7669 Pike County Hatchery, Pikeville                                     | ....     | 14.38                                     | 14.61  | 36.8                       | 37.9  |
| 0-14-14 (Muriate) with 3# Borax per 100# "Super Brand"                   |          |   |        |                            |       |
| 7668 Pike County Hatchery, Pikeville (1)                                 | ....     | 14.00                                     | 14.56  | 36.8                       | 37.4  |
| 60% Muriate of Potash  |          |   |        |                            |       |
| 6691 Farmers Supply Co., Paintsville                                     | ....     | .....                                     | 60.24  | 54.0                       | 54.2  |
| 6972 Southern States Co-op., Harrodsburg                                 | ....     | .....                                     | 60.28  | 54.0                       | 54.3  |
| 50.50% Sulfate of Potash   |          |   |        |                            |       |
| 7081 Southern States Co-op., Flemingsburg                                | ....     | .....                                     | 50.28  | 55.6                       | 55.3  |
| 7194 Southern States Co-op., Henderson                                   | ....     | .....                                     | 50.48  | 55.6                       | 55.5  |
| 7195 Henry Co. Farm & Home Service, Eminence                             | ....     | .....                                     | 50.68  | 55.6                       | 55.8  |
| 7302 Southern States Co-op., Campbellsville                              | ....     | .....                                     | 50.36  | 55.6                       | 55.4  |
| 7532 Elwood Hulette, Frankfort   | ....     | .....                                     | 51.00  | 55.6                       | 56.1  |
| 7614 Southern States Co-op., Russellville                                | ....     | .....                                     | 51.08  | 55.6                       | 56.2  |
| 50% Sulfate of Potash  |          |   |        |                            |       |
| 7533 Amburgey's Farm Supply, Mt. Sterling                                | ....     | .....                                     | 50.76  | 55.0                       | 55.8  |
| COVINGTON FERTILIZER SERVICE,<br>Covington, Tenn.                        |          |   |        |                            |       |
| 82% Anhydrous Ammonia  |          |   |        |                            |       |
| 7370 J. C. Sanford, Pembroke   | 82.00    | .....                                     | ....   | 123.0                      | 123.0 |
| 7702 J. V. Maginnis, Morganfield   | 82.00    | .....                                     | ....   | 123.0                      | 123.0 |
| CUMBERLAND CHEMICAL COMPANY,<br>Hopkinsville, Ky.                        |          |   |        |                            |       |
| 6-8-6 (Muriate 3, Sulfate 3)   |          |   |        |                            |       |
| 7303 General Farm Supply, Clay   | 6.23     | 8.70                                      | 7.07   | 35.6                       | 38.0  |
| 7413 Todd County Implement Co., Elkton                                   | 5.97     | 9.20                                      | 6.40   | 35.6                       | 37.4  |
| 7414 Robinson Implement Co., Princeton                                   | 6.03     | 8.30                                      | 6.83   | 35.6                       | 36.9  |
| 4-12-8 (Muriate)   |          |   |        |                            |       |
| 7304 General Farm Supply, Clay   | 4.22     | 11.23                                     | 8.77   | 38.4                       | 38.7  |

1. Boron guaranteed 0.34 percent - found 0.29 percent

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Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained                 | Nitrogen | Phosphoric Acid Available | Potash | Index of Relative Value |       |
|---|----------|---------------------------|--------|-------------------------|-------|
|   |          |                           |        | Guar.                   | Found |
| CUMBERLAND CHEMICAL COMPANY, (Cont'd)   |          |                           |        |                         |       |
| 2-12-6 (Muriate)  |          |                           |        |                         |       |
| 6724 Robinson Implement Co., Princeton  | 2.04     | 12.15                     | 7.11   | 32.4                    | 33.8  |
| 7196 Fox Hardware Co., Madisonville   | 2.18     | 12.80                     | 7.38   | 32.4                    | 35.1  |
| 7305 Trigg County Trading Co., Cadiz  | 2.18     | 12.80                     | 7.66   | 32.4                    | 35.4  |
| 7415 Pyles & Goodman, Crofton   | 2.12     | 12.05                     | 6.94   | 32.4                    | 33.6  |
| 18% Superphosphate  |          |                           |        |                         |       |
| 7416 Ratliff Hardware Co., Princeton  | ....     | 18.80                     | ....   | 23.4                    | 24.4  |
| 21.50% Sulfate of Potash Magnesia   |          |                           |        |                         |       |
| 7417 Bales Hardware Co., Horse Cave   | ....     | .....                     | 22.40  | 43.0                    | 44.8  |
| THE DAVISON CHEMICAL CORPORATION,<br>Hopkins Fertilizer Division,<br>New Albany, Ind. |          |                           |        |                         |       |
| 6-8-6 (Muriate) "Old Time Brand"  |          |                           |        |                         |       |
| 6632 The Big Store, Harrodsburg   | 6.01     | 8.58                      | 6.58   | 35.6                    | 36.9  |
| 6679 E. M. Woosley Gen. Mdse., Rosine   | 6.11     | 8.33                      | 6.21   | 35.6                    | 36.4  |
| 7197 Buechel Produce Exchange, Buechel  | 5.83     | 8.70                      | 7.03   | 35.6                    | 37.1  |
| 7198 Henderson Feed & Commission Co., Henderson                                       | 6.09     | 8.00                      | 6.83   | 35.6                    | 36.6  |
| 6-8-6 (Sulfate) "Old Time Brand"  |          |                           |        |                         |       |
| 7726 R. H. Johnson, Beaver Dam  | 5.98     | 8.00                      | 6.61   | 35.6                    | 36.2  |
| 6-8-6 (Sulfate) "Old Time Brand"  |          |                           |        |                         |       |
| 6629 Duncan, Hughes Co., LaGrange   | 6.12     | 7.95                      | 6.65   | 35.6                    | 36.4  |
| 6633 The Big Store, Harrodsburg   | 5.97     | 8.60                      | 6.55*  | 35.6                    | 36.8  |
| 6800 Jewell & Hayden, Bardstown   | 6.04     | 8.30                      | 6.63   | 35.6                    | 36.7  |
| 6801 Arthur Hughes, London  | 5.84     | 8.55                      | 6.98k  | 35.6                    | 36.9  |
| 7199 John Underwood & Son, Nicholasville  | 6.01     | 8.40                      | 6.99l  | 35.6                    | 37.1  |
| 7200 J. H. Young, Bagdad  | 6.09     | 8.30                      | 6.75   | 35.6                    | 36.9  |
| 7418 G. C. McPhetridge, London  | 6.06     | 8.10                      | 7.01   | 35.6                    | 36.9  |
| 4-12-8 (Sulfate) "Old Time Brand"   |          |                           |        |                         |       |
| 6900 J. L. Wilson, Canmer   | 3.83     | 13.03                     | 9.62m  | 38.4                    | 40.9  |
| 6973 W. S. Allen, Liberty   | 4.24     | 12.33                     | 8.96n  | 38.4                    | 40.2  |
| 7419 Warsaw Hardware Co., Warsaw  | 4.28     | 13.08                     | 8.43o  | 38.4                    | 40.7  |
| 3-9-6 (Muriate) "Old Time Brand"  |          |                           |        |                         |       |
| 6802 Arthur Hughes, London  | 2.95     | 9.20                      | 5.80   | 30.8                    | 30.7  |
| 2-12-6 (Muriate)  |          |                           |        |                         |       |
| 6680 E. M. Woosley Gen. Mdse., Rosine   | 2.02     | 11.65                     | 6.42   | 32.4                    | 32.4  |
| 6803 Arthur Hughes, London  | 2.34     | 11.55                     | 6.68   | 32.4                    | 33.2  |

\* Excess muriate equivalent to 1.41 percent potash

|    |   |   |   |      |   |   |
|----|---|---|---|------|---|---|
| k. | " | " | " | 0.54 | " | " |
| l. | " | " | " | 0.33 | " | " |
| m. | " | " | " | 2.28 | " | " |
| n. | " | " | " | 0.88 | " | " |
| o. | " | " | " | 0.29 | " | " |

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained   | Nitrogen | Phosphoric Acid Available | Potash | Index of Relative Value |       |
|---|----------|---------------------------|--------|-------------------------|-------|
|   |          |                           |        | Guar.                   | Found |
| THE DAVISON CHEMICAL CORPORATION, Hopkins Fertilizer Division, (Cont'd) |          |                           |        |                         |       |
| 2-12-6 (Muriate) (Cont'd)   |          |                           |        |                         |       |
| 6804 Carl Curry, Dixon  | 1.99     | 11.70                     | 6.27   | 32.4                    | 32.3  |
| 7201 Farm Service Cooperative, Henderson                                | 2.16     | 11.83                     | 6.78   | 32.4                    | 33.3  |
| 7727 Brashear's Market, Corbin  | 2.03     | 12.00                     | 6.73   | 32.4                    | 33.2  |
| 20% Superphosphate  |          |                           |        |                         |       |
| 7202 Duncan, Hughes Co., LaGrange                                       | ....     | 20.00                     | ....   | 26.0                    | 26.0  |
| 16% Nitrate of Soda "Old Time Brand"                                    |          |                           |        |                         |       |
| 7420 Martin's Grocery, Manchester                                       | 16.12    | .....                     | ....   | 48.0                    | 48.4  |
| THE DAVISON CHEMICAL CORPORATION, Nashville, Tenn.                      |          |                           |        |                         |       |
| 6-8-6 (Muriate) Davco Red Diamond                                       |          |                           |        |                         |       |
| 7421 Eldred Hardware Co., Princeton                                     | 5.94     | 8.70                      | 6.11   | 35.6                    | 36.4  |
| 7534 Farmers Gin Co., Clinton   | 5.92     | 8.20                      | 6.05   | 35.6                    | 35.7  |
| 7615 J. L. Daniels Feed Store, Burna                                    | 5.93     | 8.20                      | 6.46   | 35.6                    | 36.2  |
| 6-8-6 (Sulfate) Davco Red Diamond                                       |          |                           |        |                         |       |
| 6725 Farmers Supply Center, Leitchfield                                 | 5.47     | 9.53                      | 6.29   | 35.6                    | 36.7  |
| 6726 Fulkerson Brothers, Sonora   | 6.05     | 8.25                      | 6.44   | 35.6                    | 36.4  |
| 6727 J. B. Hatcher & Co., Park City                                     | 5.79     | 8.65                      | 6.29   | 35.6                    | 36.3  |
| 6805 Farmers Co-op., Madisonville                                       | 6.04     | 8.60                      | 6.21   | 35.6                    | 36.6  |
| 6806 Madison Farm Bureau, Richmond                                      | 6.07     | 8.30                      | 6.45   | 35.6                    | 36.6  |
| 6807 Buckhorn Coal Co., Campbellsville                                  | 6.06     | 8.00                      | 6.23   | 35.6                    | 36.0  |
| 6808 U. L. Rogers, Columbia   | 6.06     | 8.00                      | 6.14   | 35.6                    | 35.9  |
| 6974 Madison County Farm Bureau, Richmond                               | 5.91     | 8.20                      | 6.19   | 35.6                    | 35.9  |
| 7082 J. W. Dawson, Winchester   | 5.96     | 8.30                      | 6.40   | 35.6                    | 36.3  |
| 7203 Farmers Cooperative, Madisonville                                  | 5.94     | 7.90                      | 6.21   | 35.6                    | 35.6  |
| 7306 Gentry McCauley, Versailles  | 5.98     | 8.70                      | 6.62p  | 35.6                    | 37.0  |
| 7307 C. S. Brent Seed Co., Lexington                                    | 6.04     | 8.80                      | 6.44   | 35.6                    | 37.1  |
| 4-12-8 (Muriate) Davco Red Diamond                                      |          |                           |        |                         |       |
| 6809 W. I. Smith Gen. Store, Sebree                                     | 4.02     | 11.88                     | 8.21   | 38.4                    | 38.5  |
| 6901 Simpson County Farmers Co-op., Franklin                            | 4.13     | 11.95                     | 8.55   | 38.4                    | 39.2  |
| 6902 Graves Co. Soil Association, Mayfield                              | 4.18     | 12.15                     | 8.63   | 38.4                    | 39.6  |
| 6903 " " " " " "  | 4.16     | 12.10                     | 8.43   | 38.4                    | 39.3  |
| 7308 C. S. Brent Seed Co., Lexington                                    | 4.16     | 12.50                     | 8.97   | 38.4                    | 40.3  |
| 4-12-8 (Sulfate) Davco Red Diamond                                      |          |                           |        |                         |       |
| 6728 Fulkerson Brothers, Sonora   | 4.00     | 11.98                     | 8.79   | 38.4                    | 39.2  |
| 6810 Madison Farm Bureau, Richmond                                      | 4.03     | 11.55                     | 8.49+  | 38.4                    | 38.4  |
| 6811 Farmers Co-op., Madisonville                                       | 4.03     | 12.03                     | 8.71   | 38.4                    | 39.2  |
| 6904 Simpson Co. Farmers Co-op., Franklin                               | 4.09     | 12.20                     | 8.83   | 38.4                    | 39.7  |
| 6905 Butterworth Seed Co., Mayfield                                     | 4.07     | 12.05                     | 8.85   | 38.4                    | 39.5  |
| 7422 W. P. Thomason Gen. Store, Clarkson                                | 4.02     | 12.80                     | 8.30*  | 38.4                    | 39.7  |
| 7616 Walter Noe, Russellville   | 4.16     | 11.93                     | 8.74q  | 38.4                    | 39.4  |

p. Excess muriate equivalent to 0.29 percent potash

+ " " " " 0.77 " "

\* " " " " 1.18 " "

q. " " " " 0.92 " "



## Regulatory Bulletin No. 93

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty<br>Station No. and From Whom Obtained | Nitrogen | Phos-<br>phoric<br>Acid<br>Avail-<br>able | Potash | Index of<br>Relative Value |       |
|--|----------|---|--------|----------------------------|-------|
|  |          |   |        | Guar.                      | Found |
| THE DAVISON CHEMICAL CORPORATION (Cont'd)                                |          |   |        |                            |       |
| 4-12-4 (Muriate) Davco Red Diamond                                       |          |   |        |                            |       |
| 6656 Guenther Hdw. Co., Owensboro  | 4.14     | 12.00                                     | 4.69   | 34.4                       | 35.4  |
| 6812 Corbin Farm Supply, Providence                                      | 4.03     | 12.00                                     | 4.46   | 34.4                       | 34.9  |
| 6813 U. L. Rogers, Columbia  | 4.06     | 11.90                                     | 4.41   | 34.4                       | 34.8  |
| 7083 Clay & Johnson, Fountain Run  | 4.04     | 11.98                                     | 4.69   | 34.4                       | 35.2  |
| 7535 Salem Feed Co., Salem   | 4.12     | 11.90                                     | 4.30   | 34.4                       | 34.8  |
| 7617 Salem Feed Co., Salem   | 4.28     | 11.80                                     | 4.25   | 34.4                       | 35.0  |
| 3-12-12 (Muriate) Davco Red Diamond                                      |          |   |        |                            |       |
| 6814 Farmers Cooperative, Madisonville                                   | 3.09     | 11.93                                     | 11.99  | 40.4                       | 40.5  |
| 6906 Butterworth Seed Co., Mayfield                                      | 3.10     | 12.10                                     | 11.92  | 40.4                       | 40.6  |
| 6975 Madison County Farm Bureau, Richmond                                | 3.62     | 9.95                                      | 9.52   | 40.4                       | 36.7  |
| 7536 Farmers Gin Co., Clinton  | 3.33     | 12.20                                     | 10.75  | 40.4                       | 40.0  |
| 7618 Lucas Feed & Seed Co., Franklin                                     | 3.04     | 11.90                                     | 11.87  | 40.4                       | 40.2  |
| 7619 Logan County Seed Co., Russellville                                 | 3.16     | 12.00                                     | 12.16  | 40.4                       | 40.9  |
| 3-9-6 (Muriate) Davco Red Diamond  |          |   |        |                            |       |
| 6657 Bishop, Patterson & Gray Brothers, Glasgow                          | 3.19     | 9.05                                      | 6.19   | 30.8                       | 31.4  |
| 6815 Young Seed House, Campbellsville                                    | 3.05     | 9.35                                      | 5.98   | 30.8                       | 31.3  |
| 6816 Madison County Farm Bureau, Richmond                                | 3.19     | 8.98                                      | 6.06   | 30.8                       | 31.2  |
| 6907 E. S. Ferrell & Son, Buffalo  | 2.99     | 9.00                                      | 6.63   | 30.8                       | 31.4  |
| 7084 J. W. Dawson, Winchester  | 3.19     | 9.40                                      | 5.98   | 30.8                       | 31.6  |
| 7085 S. D. Harlan, Gamaliel  | 3.31     | 9.40                                      | 6.39   | 30.8                       | 32.3  |
| 7423 W. P. Thomason Gen. Store, Clarkson                                 | 3.13     | 9.40                                      | 6.29   | 30.8                       | 31.8  |
| 7728 Guenther Hdw. Co., Owensboro  | 3.17     | 9.13                                      | 6.35   | 30.8                       | 31.7  |
| 2-12-6 (Muriate) Davco Red Diamond                                       |          |   |        |                            |       |
| 6729 N. T. Nuckols, Elkton   | 2.26     | 11.90                                     | 6.42   | 32.4                       | 33.2  |
| 6730 J. B. Hatcher Co., Park City  | 2.16     | 11.98                                     | 6.53   | 32.4                       | 33.2  |
| 6731 Farmers Supply Center, Leitchfield                                  | 2.20     | 11.68                                     | 6.38   | 32.4                       | 32.8  |
| 6817 Buckhorn Coal Co., Campbellsville                                   | 2.14     | 11.68                                     | 6.39   | 32.4                       | 32.7  |
| 6818 Smith & Reynolds Co., Slaughters                                    | 2.48     | 11.90                                     | 6.49   | 32.4                       | 33.7  |
| 6976 Madison County Farm Bureau, Richmond                                | 2.60     | 11.85                                     | 6.69   | 32.4                       | 34.1  |
| 7309 Smith & Reynolds Co., Slaughters                                    | 2.64     | 11.65                                     | 7.20   | 32.4                       | 34.5  |
| 0-20-20 (Muriate) Davco Red Diamond                                      |          |   |        |                            |       |
| 6819 Farmers Cooperative, Madisonville                                   | ....     | 19.33                                     | 17.04  | 50.0                       | 46.2  |
| 0-14-7 (Muriate) Davco Red Diamond                                       |          |   |        |                            |       |
| 6732 Cayce-Yost Company, Hopkinsville                                    | ....     | 14.10                                     | 7.79   | 29.8                       | 30.7  |
| 0-12-12 (Muriate) Davco Red Diamond                                      |          |   |        |                            |       |
| 7424 Warren Elevator, Guthrie  | ....     | 13.15                                     | 11.42  | 32.4                       | 33.2  |
| 20% Superphosphate, Davco Granulated                                     |          |   |        |                            |       |
| 6733 Cayce-Yost Co., Hopkinsville  | ....     | 20.63                                     | ....   | 26.0                       | 26.8  |
| 6734 Farmers Supply Center, Leitchfield                                  | ....     | 20.33                                     | ....   | 26.0                       | 26.4  |
| 6735 N. T. Nuckols, Elkton   | ....     | 19.95                                     | ....   | 26.0                       | 25.9  |
| 6820 Farmers Cooperative, Madisonville                                   | ....     | 20.03                                     | ....   | 26.0                       | 26.0  |
| 6908 J. B. Lucas Feed & Seed Co., Franklin                               | ....     | 19.95                                     | ....   | 26.0                       | 25.9  |
| 6909 Hughes Hardware Co., Franklin                                       | ....     | 20.48                                     | ....   | 26.0                       | 26.6  |
| 7086 Bishop, Patterson & Gray Bros., Glasgow                             | ....     | 21.20                                     | ....   | 26.0                       | 27.6  |
| 7204 Farmers Cooperative, Madisonville                                   | ....     | 20.20                                     | ....   | 26.0                       | 26.3  |

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained | Nitrogen | Phosphoric Acid Available | Potash            | Index of Relative Value |             |
|---|----------|---------------------------|-------------------|-------------------------|-------------|
|   |          |                           |                   | Guar.                   | Found       |
| THE DAVISON CHEMICAL CORPORATION, (Cont'd)                            |          |                           |                   |                         |             |
| 60% Muriate of Potash   |          |                           |                   |                         |             |
| 7425 J. B. Hatcher Co., Park City                                     | ....     | .....                     | <u>58.68</u>      | 54.0                    | 52.8        |
| THE DAVISON CHEMICAL CORPORATION, Columbus, Ohio                      |          |                           |                   |                         |             |
| 4-12-8 (Muriate)  |          |                           |                   |                         |             |
| 7620 Foster Feed Store, Grayson                                       | 4.13     | 11.75                     | 8.98              | 38.4                    | 39.3        |
| 7621 Foster Feed Store, Grayson                                       | 3.95     | 12.20                     | 7.78              | 38.4                    | 38.3        |
| 3-12-12 (Muriate)   |          |                           |                   |                         |             |
| 7622 Foster Feed Store, Grayson                                       | 3.10     | 11.80                     | 12.34             | 40.4                    | 40.7        |
| 2-12-6 (Muriate)  |          |                           |                   |                         |             |
| 7623 Foster Feed Store, Grayson                                       | 2.08     | 11.90                     | 6.76              | 32.4                    | 33.2        |
| 0-12-12 (Muriate)   |          |                           |                   |                         |             |
| 7624 Foster Feed Store, Grayson                                       | ....     | <u>11.63</u>              | 12.52             | 32.4                    | 32.5        |
| ELLIS CHEMICAL COMPANY, New Albany, Ind.                              |          |                           |                   |                         |             |
| 4-12-8 (Sulfate)  |          |                           |                   |                         |             |
| 6910 Morrison & Wallace, Hodgenville                                  | 3.87     | 12.00                     | 7.86              | 38.4                    | 38.0        |
| 6911 Amburgey's Feed Store, Mt. Sterling                              | 4.00     | 11.75                     | 8.15              | 38.4                    | 38.3        |
| 6977 Southern States Co-op., Frankfort                                | 3.97     | 11.78                     | 8.08              | 38.4                    | 38.2        |
| 7087 Southern States Co-op., Owensboro                                | 4.51     | 11.45                     | 9.47 <sup>r</sup> | 38.4                    | 40.2        |
| 7310 Farmers Exchange, Burkesville                                    | 4.07     | <u>12.00</u>              | 8.51              | 38.4                    | 39.1        |
| 7671 Anderson Ice Co., Lawrenceburg                                   | 4.01     | 12.13                     | 8.38              | 38.4                    | 39.0        |
| 7672 Adair Farmers Service, Columbia                                  | 3.75     | 11.83                     | 8.94              | 38.4                    | 38.6        |
| 3-12-12 (Muriate)   |          |                           |                   |                         |             |
| 6821 Adair Farm Service, Columbia                                     | 3.01     | 11.60                     | 12.99             | 40.4                    | 40.9        |
| 6912 Amburgey's Farm Store, Mt. Sterling                              | 3.08     | <u>11.75</u>              | 12.20             | 40.4                    | 40.5        |
| 7088 Southern States Co-op., Glasgow                                  | 2.99     | 11.28                     | 13.34             | 40.4                    | 40.9        |
| 7205 Southern States Co-op., Shelbyville                              | 3.03     | <u>11.38</u>              | 12.75             | 40.4                    | 40.5        |
| 7206 Southern States Co-op., Somerset                                 | 2.99     | <u>12.00</u>              | 12.66             | 40.4                    | 41.0        |
| 7426 Southern States Co-op., Marion                                   | 3.01     | 11.80                     | 12.75             | 40.4                    | 40.9        |
| 7537 Augusta Farm Supply, Augusta                                     | 3.17     | <u>11.55</u>              | 12.67             | 40.4                    | 40.9        |
| 7625 Southern States Co-op., Clinton                                  | 3.02     | <u>11.45</u>              | 13.06             | 40.4                    | 40.8        |
| FEDERAL CHEMICAL COMPANY, Louisville, Ky.                             |          |                           |                   |                         |             |
| 6-12-12 (Muriate)   |          |                           |                   |                         |             |
| 6978 E. W. James Grocery Co., Hickman                                 | 5.84     | 12.08                     | 12.54             | 46.4                    | 46.7        |
| 7626 Robert James Feed Store, Franklin                                | 5.92     | 11.90                     | 12.37             | 46.4                    | 46.5        |
| 6-12-12 (Sulfate)   |          |                           |                   |                         |             |
| 7427 Clarence LeBus, Lexington  | 5.88     | 11.00                     | <u>10.41</u> s    | 46.4                    | 43.4        |
| 7538 Clarence LeBus & Son, Cynthiana                                  | 6.01     | <u>12.60</u>              | <u>11.50</u>      | 46.4                    | <u>46.6</u> |

r. Excess muriate equivalent to 0.72 percent potash  
s. " " " " 1.41 " "

## Regulatory Bulletin No. 93

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained | Nitrogen | Phosphoric Acid Available | Potash | Index of Relative Value |       |
|---|----------|---------------------------|--------|-------------------------|-------|
|   |          |                           |        | Guar.                   | Found |
| FEDERAL CHEMICAL COMPANY, (Cont'd)                                    |          |                           |        |                         |       |
| 6-8-6 (Muriate)   |          |                           |        |                         |       |
| 6822 Corbin Farm Supply, Providence                                   | 5.63     | 8.40                      | 6.53   | 35.6                    | 35.9  |
| 7089 Verona Garage, Verona  | 5.93     | 9.00                      | 6.75   | 35.6                    | 37.4  |
| 7311 Bowles Mill, Hanson  | 5.48     | 8.70                      | 6.11   | 35.6                    | 35.5  |
| 7312 Farmers Supply Co., Whitesburg                                   | 5.70     | 8.90                      | 6.78   | 35.6                    | 36.9  |
| 7313 Faulkner's Supermarket, Pikeville                                | 5.83     | 8.80                      | 6.58   | 35.6                    | 36.8  |
| 7428 L. J. Burke, Lexington   | 6.22     | 8.70                      | 6.47   | 35.6                    | 37.4  |
| 7429 Nathan Roederer, Louisville                                      | 6.00     | 8.60                      | 6.37   | 35.6                    | 36.7  |
| 7539 Salem Feed Co., Salem  | 5.74     | 8.70                      | 6.83   | 35.6                    | 36.8  |
| 7673 Denver Miniard, Cornettsville                                    | 6.07     | 8.30                      | 6.15   | 35.6                    | 36.3  |
| 6-8-6 (Sulfate)   |          |                           |        |                         |       |
| 6658 James C. Carr, Richmond  | 6.33     | 8.28                      | 6.24   | 35.6                    | 36.8  |
| 6659 Shelby Murphy, Mt. Sterling                                      | 6.09     | 8.03                      | 6.24   | 35.6                    | 36.1  |
| 6692 Meade & Co., Paintsville   | 6.20     | 8.40                      | 6.58   | 35.6                    | 37.1  |
| 6693 Carter Sparks, Edmonton  | 5.98     | 8.48                      | 6.80 t | 35.6                    | 36.9  |
| 6823 G. W. Edmonds Hdw. Co., Flemingsburg                             | 6.03     | 8.40                      | 6.71 u | 35.6                    | 36.9  |
| 6913 Newton Mercantile Co., Station Camp                              | 6.12     | 8.13                      | 6.46   | 35.6                    | 36.5  |
| 6979 Carter's Feed Store, Forks of Elkhorn                            | 6.10     | 8.08                      | 6.60   | 35.6                    | 36.5  |
| 7207 Fern Creek Feed & Hdw. Co., Buechel                              | 5.15     | 9.45                      | 8.39 v | 35.6                    | 38.0  |
| 7208 Benson Valley Milling Co., Frankfort                             | 6.08     | 8.40                      | 6.32   | 35.6                    | 36.6  |
| 7209 J. B. Barnes, Somerset   | 6.20     | 8.30                      | 6.83   | 35.6                    | 37.2  |
| 7314 Basil M. Brooks, Madisonville                                    | 5.83     | 8.60                      | 6.42 w | 35.6                    | 36.4  |
| 7315 Pat Davis Gen. Mdse., Cerulean                                   | 5.59     | 8.60                      | 6.45 x | 35.6                    | 36.0  |
| 7430 P. J. Honaker, Port Royal  | 6.45     | 8.50                      | 6.04   | 35.6                    | 37.1  |
| 7540 F. G. Barlow, Cynthiana  | 5.74     | 8.30                      | 6.58   | 35.6                    | 36.0  |
| 4-12-8 (Muriate)  |          |                           |        |                         |       |
| 6914 Youngblood Brothers Grocery, Mayfield                            | 4.30     | 12.00                     | 8.49   | 38.4                    | 39.5  |
| 6915 Dairyman's Feed & Supply Co., Mayfield                           | 4.25     | 11.93                     | 8.33   | 38.4                    | 39.2  |
| 6980 Murray Milling Co., Murray                                       | 4.09     | 12.08                     | 8.13   | 38.4                    | 38.8  |
| 7316 Jackson Wholesale Co., Praise                                    | 4.26     | 12.00                     | 8.44   | 38.4                    | 39.4  |
| 7317 Basil M. Brooks, Madisonville                                    | 4.04     | 12.10                     | 8.18   | 38.4                    | 38.8  |
| 7431 L. J. Burke, Lexington   | 4.28     | 12.20                     | 8.57   | 38.4                    | 39.8  |
| 4-12-8 (Sulfate)  |          |                           |        |                         |       |
| 6824 G. W. Edmond Hdw. Co., Flemingsburg                              | 4.23     | 10.93                     | 8.25 y | 38.4                    | 37.8  |
| 6825 Southern States Co-op., Cynthiana                                | 4.03     | 11.83                     | 9.25 z | 38.4                    | 39.5  |
| 6916 Newton Mercantile Co., Station Camp                              | 4.43     | 11.65                     | 8.49   | 38.4                    | 39.3  |
| 6917 Dairyman's Feed & Supply Co., Mayfield                           | 4.37     | 12.25                     | 7.58   | 38.4                    | 39.0  |
| 7090 Lynn Flood Feed Store, Finchville                                | 4.11     | 12.50                     | 8.25   | 38.4                    | 39.5  |
| 7091 Verona Garage, Verona  | 4.34     | 11.65                     | 9.03   | 38.4                    | 39.7  |
| 7210 W. B. Monroe & Son, LaGrange                                     | 4.66     | 11.90                     | 8.40   | 38.4                    | 40.0  |
| 7211 Leer & Ballard, Lancaster  | 4.36     | 11.70                     | 8.30   | 38.4                    | 39.1  |
| 7432 Vine Street Feed Store, Lexington                                | 4.33     | 12.60                     | 8.01   | 38.4                    | 39.8  |
| 7541 F. G. Barlow, Cynthiana  | 4.49     | 11.53                     | 8.54   | 38.4                    | 39.4  |
| 7674 Levi Goff, Winchester  | 4.19     | 12.00                     | 8.13   | 38.4                    | 38.9  |

t. Excess Muriate equivalent to 0.41 percent potash

|    |   |   |   |      |   |   |
|----|---|---|---|------|---|---|
| u. | " | " | " | 0.59 | " | " |
| v. | " | " | " | 4.02 | " | " |
| w. | " | " | " | 0.92 | " | " |
| x. | " | " | " | 0.69 | " | " |
| y. | " | " | " | 1.46 | " | " |
| z. | " | " | " | 1.09 | " | " |

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty<br>Station No. and From Whom Obtained | Nitrogen | Phos-<br>phoric<br>Acid<br>Avail-<br>able | Potash       | Index of<br>Relative Value |       |
|--|----------|---|--------------|----------------------------|-------|
|  |          |   |              | Guar.                      | Found |
| FEDERAL CHEMICAL COMPANY, (Cont'd)                                       |          |   |              |                            |       |
| 3-12-12 (Muriate)  |          |   |              |                            |       |
| 7212 Freeman-Hockensmith, Stamping Ground                                | 3.04     | 11.90                                     | 12.34        | 40.4                       | 40.7  |
| 7213 Barnett & Kent, Bagdad  | 3.00     | 11.90                                     | <u>11.42</u> | 40.4                       | 39.7  |
| 3-12-12 (Sulfate)  |          |   |              |                            |       |
| 6981 Carter's Feed Store, Forks of Elkhorn                               | 3.18     | 12.40                                     | 12.12        | 40.4                       | 41.4  |
| 7092 Lynn Flood Feed Store, Finchville                                   | 3.31     | 12.60                                     | 12.64        | 40.4                       | 42.4  |
| 7214 Barnett & Kent, Bagdad  | 3.35     | 11.90                                     | 12.22        | 40.4                       | 41.2  |
| 3-9-6 (Muriate)  |          |   |              |                            |       |
| 6694 Meade & Co., Paintsville  | 3.45     | 8.95                                      | 6.29         | 30.8                       | 31.9  |
| 6826 G. W. Edmond Hardware Co., Flemingsburg                             | 3.20     | 9.10                                      | 6.30         | 30.8                       | 31.6  |
| 6918 Newton Mercantile Co., Station Camp                                 | 3.47     | 9.18                                      | 6.60         | 30.8                       | 32.6  |
| 6919 Melber Roller Mills, Melber   | 3.08     | 9.30                                      | 6.16         | 30.8                       | 31.5  |
| 6920 Lone Oak Feed Mill, Paducah   | 2.95     | 9.23                                      | 6.16         | 30.8                       | 31.1  |
| 6982 W. S. Allen, Liberty  | 3.41     | 8.63                                      | 6.58         | 30.8                       | 31.8  |
| 7093 Bishop, Patterson & Gray Bros., Glasgow                             | 3.38     | <u>9.10</u>                               | 6.47         | 30.8                       | 32.2  |
| 7215 Benson Valley Milling Co., Frankfort                                | 3.90     | 8.75                                      | 6.52         | 30.8                       | 32.8  |
| 7433 A. T. Atkinson, Hopkinsville  | 2.93     | 9.80                                      | 6.11         | 30.8                       | 31.7  |
| 2-12-6 (Muriate)   |          |   |              |                            |       |
| 6827 G. W. Edmond Hdw. Co., Flemingsburg                                 | 3.99     | 9.98                                      | 6.50         | 32.4                       | 34.5  |
| 6921 Campbell Wholesale Co., Krypton                                     | 2.35     | <u>12.05</u>                              | 6.44         | 32.4                       | 33.6  |
| 7216 Hall Seed Co., Louisville   | 2.20     | 11.43                                     | 6.35         | 32.4                       | 32.5  |
| 7217 Caneyville Seed & Feed Co., Caneyville                              | 1.95     | <u>11.40</u>                              | 7.57         | 32.4                       | 33.2  |
| 7318 Pat Davis Gen. Mdse., Cerulean                                      | 2.23     | <u>12.20</u>                              | 6.27         | 32.4                       | 33.4  |
| 7319 Jackson Wholesale Co., Praise                                       | 2.47     | 12.10                                     | 6.89         | 32.4                       | 34.4  |
| 7434 G. S. Davis, Glen Dean  | 2.33     | 12.25                                     | 6.32         | 32.4                       | 33.7  |
| 7542 Stockton Brothers, Albany   | 2.50     | <u>11.53</u>                              | 6.24         | 32.4                       | 33.1  |
| 0-20-20 (Muriate)  |          |   |              |                            |       |
| 7218 J. B. Barnes, Somerset  | ....     | <u>19.33</u>                              | <u>18.88</u> | 50.0                       | 48.1  |
| 0-14-7 (Muriate)   |          |   |              |                            |       |
| 7094 Allen & Jenkins, Bowling Green                                      | ....     | 14.00                                     | 7.43         | 29.8                       | 30.2  |
| 7320 Bowles Mill, Hanson   | ....     | 14.20                                     | 6.90         | 29.8                       | 29.9  |
| 7627 J. W. Bond, Russellville  | ....     | 13.90                                     | 7.63         | 29.8                       | 30.3  |
| 0-12-12 (Muriate)  |          |   |              |                            |       |
| 6922 Newton Mercantile Co., Station Camp                                 | ....     | 12.35                                     | <u>11.47</u> | 32.4                       | 32.3  |
| 7219 Hall Seed Co., Louisville   | ....     | 11.90                                     | <u>12.53</u> | 32.4                       | 32.8  |
| 7675 Farmers Exchange, Burkesville                                       | ....     | <u>11.65</u>                              | <u>11.44</u> | 32.4                       | 31.4  |
| 33.50% Ammonium Nitrate  |          |   |              |                            |       |
| 6736 Warren Elevator, Guthrie  | 33.52    | .....                                     | .....        | 67.0                       | 67.0  |
| 50% Muriate of Potash  |          |   |              |                            |       |
| 7628 Robert James Feed Store, Franklin                                   | ....     | .....                                     | 51.88        | 45.0                       | 46.7  |
| 50% Sulfate of Potash  |          |   |              |                            |       |
| 7543 F. G. Barlow  | ....     | .....                                     | 51.12 a      | 55.0                       | 56.2  |

a. Excess muriate equivalent to 1.17 percent potash

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Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty<br>Station No. and From Whom Obtained | Nitrogen    | Phos-<br>phoric<br>Acid<br>Avail-<br>able | Potash       | Index of<br>Relative Value |       |
|--|-------------|---|--------------|----------------------------|-------|
|  |             |   |              | Guar.                      | Found |
| FORD MOTOR COMPANY,<br>Dearborn, Mich.                                   |             |   |              |                            |       |
| 20.80% Ammonium Sulfate<br>6737 Roy Wells, Brownsville                   | 20.92       | .....                                     | ....         | 41.6                       | 41.8  |
| HUTSON CHEMICAL COMPANY,<br>Murray, Kentucky                             |             |   |              |                            |       |
| 4-12-8 (Muriate)<br>6983 Water Valley Milling Co., Water Valley          | 4.33        | 11.95                                     | 8.57         | 38.4                       | 39.6  |
| INTERNATIONAL MINERALS & CHEMICAL CORPORATION,<br>Cincinnati 15, O.      |             |   |              |                            |       |
| 6-12-12 (Muriate)<br>6984 Richardson Mercantile Co., Berea               | 5.94        | 12.50                                     | 11.98        | 46.4                       | 46.9  |
| 6-12-12 (Muriate 3, Sulfate 9)<br>6738 J. C. Eldridge, Morehead          | 6.10        | 12.03                                     | 13.13        | 46.4                       | 47.8  |
| 6828 L. C. McLoney & Son, Cynthiana                                      | 5.97        | 12.20                                     | 12.48        | 46.4                       | 47.1  |
| 7435 N. T. Nuckols, Elkton   | 6.02        | 12.30                                     | <u>11.49</u> | 46.4                       | 46.3  |
| 6-8-16 (Sulfate)<br>7436 Joe Adams, Campbellsburg                        | 5.74        | 8.80                                      | 16.30        | 45.6                       | 46.3  |
| 7544 L. C. McLoney & Son, Cynthiana                                      | <u>5.97</u> | 8.00                                      | 17.00        | 45.6                       | 46.5  |
| 7545 F. W. Rickard, Winchester   | 5.72        | 8.20                                      | 17.08        | 45.6                       | 46.4  |
| 7676 Jett Coal & Supply Co., Jett  | <u>5.85</u> | 8.50                                      | 17.74        | 45.6                       | 47.6  |
| 6-8-6 (Muriate)<br>7729 Young Lumber Co., Beaver Dam                     | 6.22        | 8.10                                      | 6.01         | 35.6                       | 36.2  |
| 6-8-6 (Sulfate)<br>6695 Boyd Anderson, Ezel                              | 5.48        | 8.68                                      | 6.25         | 35.6                       | 35.6  |
| 6739 J. C. Eldridge, Morehead  | <u>5.48</u> | 8.90                                      | 6.01         | 35.6                       | 35.7  |
| 6829 L. C. McLoney & Son, Cynthiana                                      | <u>5.84</u> | 9.10                                      | 7.06*        | 35.6                       | 37.7  |
| 6985 Boone Feed Store, Stanford  | 6.04        | 8.60                                      | 6.47         | 35.6                       | 36.9  |
| 7095 Simpson & Johnson, Walton   | 6.17        | 9.00                                      | 6.15         | 35.6                       | 37.3  |
| 7096 John A. Sheehan, Falmouth   | 5.41        | 9.50                                      | 6.73         | 35.6                       | 37.0  |
| 7097 Hiatt & Parsons, Wildie   | <u>5.68</u> | 9.50                                      | 6.60         | 35.6                       | 37.4  |
| 7321 Woodson Lewis, Greensburg   | <u>6.02</u> | 8.80                                      | 6.99         | 35.6                       | 37.6  |
| 7437 P. J. Honaker, Port Royal   | 6.02        | 9.00                                      | 6.27         | 35.6                       | 37.1  |
| 7546 King Coal Co., Mt. Olivet   | 6.15        | 9.13                                      | 6.48         | 35.6                       | 37.7  |
| 7547 Claude Beck Service Station, Jamestown                              | 5.76        | 9.08                                      | 6.08         | 35.6                       | 36.5  |
| 7629 Farmers Cooperative Store, Owensboro                                | 6.26        | 8.90                                      | 6.19         | 35.6                       | 37.4  |
| 5-10-5 (Muriate)<br>6986 Harlan Fruit Co., Harlan                        | 5.33        | 10.03                                     | 5.49         | 35.0                       | 36.2  |
| 7322 Lewis Wholesale Co., Whitesburg                                     | 4.93        | 10.70                                     | 5.44         | 35.0                       | 36.1  |
| 4-12-8 (Muriate)<br>6740 Denton Mercantile Co., Hillsboro                | 3.95        | 13.05                                     | 8.79         | 38.4                       | 40.4  |
| 7098 John A. Sheehan, Falmouth   | 3.92        | 12.80                                     | 8.79         | 38.4                       | 40.0  |
| 7099 Hiatt & Parsons, Wildie   | 4.11        | 12.80                                     | 8.65         | 38.4                       | 40.2  |

\*. Excess muriate equivalent to 0.41 percent potash

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained | Nitrogen | Phos-phoric Acid Avail-able | Potash | Index of Relative Value |       |
|---|----------|-----------------------------|--------|-------------------------|-------|
|   |          |                             |        | Guar.                   | Found |
| INTERNATIONAL MINERALS & CHEMICAL CORPORATION, (Cont'd)               |          |                             |        |                         |       |
| 4-12-8 (Muriate) (Cont'd)   |          |                             |        |                         |       |
| 7323 Humphrey Brothers, Bloomfield                                    | 4.08     | 12.50                       | 8.74   | 38.4                    | 39.9  |
| 7548 Claude Beck Service Station, Jamestown                           | 3.65     | 12.10                       | 7.71   | 38.4                    | 37.5  |
| 4-12-8 (Sulfate)  |          |                             |        |                         |       |
| 6741 J. C. Eldridge, Morehead   | 4.27     | 11.60                       | 8.80   | 38.4                    | 39.3  |
| 6987 Richardson Mercantile Co., Berea                                 | 4.01     | 12.48                       | 8.49   | 38.4                    | 39.5  |
| 7100 Richardson-Stewart Co., Mt. Sterling                             | 3.98     | 12.20                       | 8.47   | 38.4                    | 39.1  |
| 7220 Robinson Milling Co., Somerset                                   | 3.77     | 12.70                       | 8.60   | 38.4                    | 39.4  |
| 7549 Tony Bezold, Newport   | 3.84     | 12.40                       | 8.40 b | 38.4                    | 39.0  |
| 3-12-12 (Muriate)   |          |                             |        |                         |       |
| 6696 Boyd Anderson, Ezel  | 3.07     | 12.05                       | 12.09  | 40.4                    | 40.7  |
| 6742 J. C. Eldridge, Morehead   | 3.05     | 12.40                       | 12.72  | 40.4                    | 41.7  |
| 7101 Simpson & Johnson, Walton  | 3.00     | 12.70                       | 12.73  | 40.4                    | 42.0  |
| 7221 Manufacturer's warehouse   | 3.04     | 12.20                       | 12.39  | 40.4                    | 41.1  |
| 7438 Cass & Cash, Brodhead  | 3.02     | 12.60                       | 12.62  | 40.4                    | 41.8  |
| 7550 Cook Grocery & Feeds, Whitley City                               | 2.95     | 12.80                       | 12.41  | 40.4                    | 41.7  |
| 7551 Vitatoc General Store, Monticello                                | 3.15     | 12.70                       | 12.27  | 40.4                    | 41.8  |
| 3-9-6 (Muriate)   |          |                             |        |                         |       |
| 6988 Harlan Fruit Co., Harlan   | 3.30     | 9.48                        | 6.52   | 30.8                    | 32.5  |
| 2-12-6 (Muriate)  |          |                             |        |                         |       |
| 6743 Denton Mercantile Co., Hillsboro                                 | 2.11     | 12.45                       | 6.50   | 32.4                    | 33.7  |
| 6830 Cundiff & Squires, Cane Valley                                   | 1.83     | 13.18                       | 5.74   | 32.4                    | 33.2  |
| 6831 Buckhorn Coal Co., Campbellsville                                | 2.05     | 12.40                       | 6.21   | 32.4                    | 33.2  |
| 7102 Cooper Brothers Feed Store, Elizabethtown                        | 2.35     | 12.00                       | 5.80   | 32.4                    | 32.9  |
| 7103 Simpson & Johnson, Walton  | 2.21     | 12.10                       | 6.48   | 32.4                    | 33.4  |
| 7222 Crab Orchard Lumber Co., Crab Orchard                            | 1.97     | 12.10                       | 6.10   | 32.4                    | 32.6  |
| 7439 Cass & Cash, Brodhead  | 2.06     | 12.00                       | 6.49   | 32.4                    | 33.0  |
| 7630 Pat Farley Feed & Supply, Catlettsburg                           | 1.97     | 12.00                       | 7.00   | 32.4                    | 33.3  |
| 7730 Allen's Coal Service, Brandenburg                                | 1.95     | 11.45                       | 7.22   | 32.4                    | 32.9  |
| 0-20-20 (Muriate)   |          |                             |        |                         |       |
| 7440 M. H. Williams Impl. Co., Hopkinsville                           | ....     | 19.25                       | 20.02  | 50.0                    | 49.1  |
| 0-14-7 (Muriate)  |          |                             |        |                         |       |
| 7104 Cooper Brothers Feed Store, Elizabethtown                        | ....     | 15.18                       | 6.98   | 29.8                    | 31.2  |
| 7441 M. G. Williams Impl. Co., Hopkinsville                           | ....     | 14.60                       | 7.66   | 29.8                    | 31.2  |
| 7631 Farm Service Cooperative, Henderson                              | ....     | 14.00                       | 8.10   | 29.8                    | 30.9  |
| 7731 Allen's Coal Service, Brandenburg                                | ....     | 14.00                       | 7.20   | 29.8                    | 30.0  |
| 7732 Harlan Fruit Co., Harlan   | ....     | 13.78                       | 7.56   | 29.8                    | 30.1  |
| 0-12-12 (Muriate)   |          |                             |        |                         |       |
| 7632 Farm Service Cooperative, Henderson                              | ....     | 12.00                       | 13.43  | 32.4                    | 33.8  |
| 7733 Allen's Coal Service, Brandenburg                                | ....     | 12.50                       | 11.78  | 32.4                    | 32.8  |
| 7734 Triplett's Store, South Corbin                                   | ....     | 12.70                       | 12.19  | 32.4                    | 33.4  |
| 0-12-12 (Muriate) with 6# Borax per 100#                              |          |                             |        |                         |       |
| 7105 Hiatt & Parsons, Wildie (2)                                      | ....     | 14.00                       | 12.75  | 32.4                    | 35.6  |

b. Excess muriate equivalent to 1.08 percent potash  
 2. Boron guarantee 0.68 percent - Found 0.39 percent

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Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained | Nitrogen    | Phosphoric Acid Available | Potash       | Index of Relative Value |       |
|---|-------------|---------------------------|--------------|-------------------------|-------|
|   |             |                           |              | Guar.                   | Found |
| INTERNATIONAL MINERALS & CHEMICAL CORPORATION, (Cont'd)               |             |                           |              |                         |       |
| 20% Superphosphate  |             |                           |              |                         |       |
| 7106 Cooper Brothers Feed Store, Elizabethtown                        | ....        | 19.25                     | ....         | 26.0                    | 25.0  |
| 7677 Jack Shirley, Edmonton   | ....        | <u>20.03</u>              | ....         | 26.0                    | 26.0  |
| 7736 Cooper Brothers Feed Store, Elizabethtown                        | ....        | 20.20                     | ....         | 26.0                    | 26.3  |
| 19% Superphosphate  |             |                           |              |                         |       |
| 6989 Harlan Fruit Co., Harlan   | ....        | 20.65                     | ....         | 24.7                    | 26.9  |
| 16% Nitrate of Soda   |             |                           |              |                         |       |
| 6990 Harlan Fruit Co., Harlan   | 16.32       | .....                     | ....         | 48.0                    | 49.0  |
| 50% Muriate of Potash   |             |                           |              |                         |       |
| 6991 Harlan Fruit Co., Harlan   | ....        | .....                     | 50.40        | 45.0                    | 45.4  |
| 7633 Pat Farley Feed & Supply, Catlettsburg                           | ....        | .....                     | 50.00        | 45.0                    | 45.0  |
| 48% Sulfate of Potash   |             |                           |              |                         |       |
| 7552 L. C. McLoney & Son, Cynthiana                                   | ....        | .....                     | 51.64        | 52.8                    | 56.8  |
| 21.50% Sulfate of Potash Magnesia                                     |             |                           |              |                         |       |
| 7107 Davis Gillespie, Mayslick  | ....        | .....                     | 22.10        | 43.0                    | 44.2  |
| 7735 Willoughby Supply Co., Richmond                                  | ....        | .....                     | 22.32        | 43.0                    | 44.6  |
| INTERSTATE FERTILIZER COMPANY,<br>Cairo, Illinois                     |             |                           |              |                         |       |
| 8-8-8 (Muriate)   |             |                           |              |                         |       |
| 7553 Yopp Seed Co., Paducah   | <u>7.65</u> | 8.40                      | 8.54         | 41.6                    | 41.9  |
| 6-12-12 (Muriate)   |             |                           |              |                         |       |
| 6992 Farmers Impl. & Supply Co., Hickman                              | 6.14        | 11.95                     | 12.17        | 46.4                    | 46.8  |
| 7634 Ballard County Co-op., LaCenter                                  | 6.06        | 12.10                     | 12.16        | 46.4                    | 46.8  |
| 6-8-6 (Muriate)   |             |                           |              |                         |       |
| 6923 Ballard County Co-op., LaCenter                                  | 5.94        | 8.30                      | 6.31         | 35.6                    | 36.2  |
| 6993 Farmers Impl. & Supply Co., Hickman                              | 5.79        | 7.90                      | 6.69         | 35.6                    | 35.8  |
| 5-10-10 (Sulfate)   |             |                           |              |                         |       |
| 6924 Ballard County Co-op., LaCenter                                  | 5.04        | 9.83                      | 10.52        | 40.0                    | 40.4  |
| 7554 Yopp Seed Co., Paducah   | 4.96        | 9.90                      | 10.24        | 40.0                    | 40.0  |
| 7555 Campbell's Mill, Kevil   | 4.92        | 10.20                     | 10.20        | 40.0                    | 40.3  |
| 4-12-8 (Muriate)  |             |                           |              |                         |       |
| 6994 Marshall County Soil Imp. Asso., Benton                          | 4.30        | <u>11.70</u>              | 8.05         | 38.4                    | 38.7  |
| 7556 Farmers Gin Co., Clinton   | 4.03        | <u>11.00</u>              | 8.92         | 38.4                    | 38.2  |
| 7557 Campbell's Mill, Kevil   | 3.96        | <u>11.23</u>              | 8.49         | 38.4                    | 37.9  |
| 3-12-12 (Muriate)   |             |                           |              |                         |       |
| 6925 Ballard County Co-op., LaCenter                                  | 3.04        | 11.90                     | 12.27        | 40.4                    | 40.6  |
| 0-20-20 (Muriate)   |             |                           |              |                         |       |
| 6995 Farmers Impl. & Supply Co., Hickman                              | ....        | <u>19.70</u>              | <u>19.72</u> | 50.0                    | 49.4  |

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty<br>Station No. and From Whom Obtained | Nitrogen | Phos-<br>phoric<br>Acid<br>Avail-<br>able | Potash       | Index of<br>Relative Value |       |
|--|----------|---|--------------|----------------------------|-------|
|  |          |   |              | Guar.                      | Found |
| INTERSTATE FERTILIZER COMPANY, (Cont'd)                                  |          |   |              |                            |       |
| 50% Sulfate of Potash  |          |   |              |                            |       |
| 6926 Ballard County Co-op., LaCenter                                     | ....     | .....                                     | 49.68        | 55.0                       | 54.7  |
| 6996 Marshall County Soil Imp. Asso., Benton                             | ....     | .....                                     | 49.88        | 55.0                       | 54.9  |
| 21.50% Sulfate of Potash Magnesia  |          |   |              |                            |       |
| 7324 Trigg County Trading Co., Cadiz                                     | ....     | .....                                     | 26.4         | 43.0                       | 52.8  |
| KENTUCKY FERTILIZER WORKS,<br>Winchester, Ky.                            |          |   |              |                            |       |
| 6-8-6 (Sulfate) "P. P. F. Brand"   |          |   |              |                            |       |
| 6660 Robinson & Turley, Richmond   | 5.96     | 8.15                                      | 5.98         | 35.6                       | 35.7  |
| 6634 Farmers Supply Co., Danville  | 6.16     | 7.95                                      | 6.15         | 35.6                       | 36.0  |
| 6997 Farmers Supply Co., Danville  | 5.87     | 8.80                                      | 6.11         | 35.6                       | 36.4  |
| 7108 Dean & Dean, Augusta  | 6.08     | 9.00                                      | 6.04         | 35.6                       | 37.0  |
| 7558 Wolfinbarger Grocery, West Irvine                                   | 6.18     | 8.30                                      | 6.58         | 35.6                       | 36.9  |
| 5-10-5 (Sulfate) "P. P. F. Brand"  |          |   |              |                            |       |
| 7109 Dean & Dean, Augusta  | 4.84     | 10.60                                     | 4.92         | 35.0                       | 35.3  |
| 7325 Whitesburg Farm Service, Whitesburg                                 | 4.81     | 10.50                                     | 5.33         | 35.0                       | 35.6  |
| 4-6-15 (Muriate) "P. P. F. Brand"  |          |   |              |                            |       |
| 7326 Woodford Feed Co., Versailles                                       | 3.92     | 6.60                                      | 15.35        | 38.2                       | 39.1  |
| 4-12-8 (Sulfate) "P. P. F. Brand"  |          |   |              |                            |       |
| 6661 Robinson & Turley, Richmond   | 4.01     | 12.10                                     | <u>7.70</u>  | 38.4                       | 38.2  |
| 3-9-6 (Muriate)  |          |   |              |                            |       |
| 6662 Robinson & Turley, Richmond   | 3.05     | 9.08                                      | 5.87         | 30.8                       | 30.9  |
| 6998 Farmers Supply Co., Danville  | 3.09     | 8.88                                      | 5.93         | 30.8                       | 30.8  |
| 7559 Wolfinbarger Grocery, West Irvine                                   | 3.04     | 9.40                                      | 5.94         | 30.8                       | 31.3  |
| 7635 Louisa Supply Co., Louisa   | 3.03     | 9.05                                      | 6.00         | 30.8                       | 31.9  |
| 0-12-12 (Muriate) with 2# Borax per 100# "P. P. F. Brand"                |          |   |              |                            |       |
| 6833 Gorman-Brown Hdw. Co., Flemingsburg (3)                             | ....     | 11.88                                     | 11.98        | 32.4                       | 32.2  |
| 20% Superphosphate "P. P. F. Brand"                                      |          |   |              |                            |       |
| 7110 Dean and Dean, Augusta  | ....     | 19.90                                     | ....         | 26.0                       | 25.9  |
| 7111 Sphar and Co., Winchester   | ....     | 19.90                                     | ....         | 26.0                       | 25.9  |
| 60% Muriate of Potash "P. P. F. Brand"                                   |          |   |              |                            |       |
| 7112 Sphar & Co., Winchester   | ....     | .....                                     | <u>59.72</u> | 54.0                       | 53.7  |
| 50% Sulfate of Potash "P. P. F. Brand"                                   |          |   |              |                            |       |
| 6635 Farmers Supply Co., Danville  | ....     | .....                                     | 50.80        | 55.0                       | 55.9  |
| 6834 Gorman-Brown Hdw. Co., Flemingsburg                                 | ....     | .....                                     | 50.28        | 55.0                       | 55.3  |
| 7223 Freeman Hockensmith, Stamping Ground                                | ....     | .....                                     | 51.36        | 55.0                       | 56.5  |

3. Boron guaranteed 0.22 percent - found 0.22 percent



Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained      | Nitrogen    | Phosphoric Acid Available | Potash            | Index of Relative Value |       |
|--|-------------|---------------------------|-------------------|-------------------------|-------|
|  |             |                           |                   | Guar.                   | Found |
| KNOXVILLE FERTILIZER COMPANY,<br>Knoxville & Nashville, Tenn., London, Ky. |             |                           |                   |                         |       |
| 6-12-12 (Muriate) Pulverized<br>7636 Harris Feed Co., Franklin             | <u>5.65</u> | 12.00                     | <u>11.57</u>      | 46.4                    | 45.3  |
| 6-8-6 (Muriate) Pulverized<br>6744 Princeton Mills, Princeton              | <u>5.58</u> | 9.60                      | 5.30              | 35.6                    | 36.0  |
| 7442 Jellico Grocery, Harlan   | <u>6.19</u> | 8.60                      | <u>6.15</u>       | 35.6                    | 36.9  |
| 7637 R. H. Smith, Tilene   | <u>5.74</u> | 8.70                      | 5.93              | 35.6                    | 35.8  |
| 6-8-6 (Sulfate) Pulverized<br>6835 Mt. Vernon Produce Co., Mt. Vernon      | 6.15        | 8.50                      | 5.95              | 35.6                    | 36.5  |
| 6836 L. C. McLoney & Son, Cynthiana  | 6.04        | 8.95                      | 6.05              | 35.6                    | 36.9  |
| 6999 Clay County Farm Service, Manchester                                  | 6.13        | 8.53                      | 6.13              | 35.6                    | 36.6  |
| 7113 Hogan, Landrum & Stone, Tompkinsville                                 | 5.47        | 9.40                      | 6.24 <sup>c</sup> | 35.6                    | 36.5  |
| 7327 Curtis & McComas, Burkesville   | <u>5.92</u> | 8.80                      | 6.45              | 35.6                    | 36.9  |
| 7328 Powell Hackney Grocery Co., Jackson                                   | 6.22        | 8.70                      | 6.67              | 35.6                    | 37.6  |
| 7443 Fayette Seed Co., Lexington   | 6.11        | 8.90                      | 6.32              | 35.6                    | 37.2  |
| 7560 L. C. McLoney & Son, Cynthiana  | 6.00        | 8.80                      | 6.22              | 35.6                    | 36.8  |
| 7638 Yopp Seed Co., Paducah  | 6.02        | 8.60                      | 5.99 <sup>d</sup> | 35.6                    | 36.4  |
| 7678 Franklin County Hatchery, Frankfort                                   | 6.06        | 8.20                      | 5.93              | 35.6                    | 35.9  |
| 7679 Frankfort Grocery Co., Frankfort                                      | 5.91        | 8.30                      | 6.29              | 35.6                    | 36.1  |
| 7329 McCauley Brothers Seed Co., Versailles                                | 6.24        | 8.90                      | 6.15              | 35.6                    | 37.3  |
| 5-10-5 (Muriate) Pulverized<br>7738 Jellico Grocery, Harlan                | 4.80        | 10.90                     | 5.47              | 35.0                    | 36.2  |
| 4-12-12 (Sulfate) Pulverized<br>6837 L. C. McLoney & Son, Cynthiana        | 4.00        | 12.18                     | 12.13             | 42.4                    | 42.8  |
| 7000 Barnett & Sullivan, Harrodsburg                                       | 4.11        | 12.20                     | 12.49             | 42.4                    | 43.4  |
| 7444 Fayette Seed Co., Lexington   | 4.01        | 12.50                     | 12.40             | 42.4                    | 43.4  |
| 7561 L. C. McLoney & Son, Cynthiana  | 3.79        | 12.20                     | 11.46             | 42.4                    | 41.7  |
| 7739 Grays Hardware Store, Grays   | 3.77        | 12.23                     | <u>11.20</u>      | 42.4                    | 41.4  |
| 4-12-8 (Muriate) Pulverized<br>7114 Wyndall Feed & Hdw. Store, Owensboro   | 4.07        | 13.00                     | <u>7.47</u>       | 38.4                    | 39.2  |
| 7224 Central State Hospital, Lakeland                                      | 4.36        | 12.20                     | 8.81              | 38.4                    | 40.2  |
| 7445 Hill & Pearson, College Hill  | 4.44        | 12.30                     | 8.96              | 38.4                    | 40.6  |
| 7446 Kentucky Houses of Reform, Greendale                                  | 4.41        | 12.40                     | 9.03              | 38.4                    | 40.7  |
| 7680 Jewell & Hayden, Bardstown  | 4.35        | 11.90                     | 9.03              | 38.4                    | 40.0  |
| 7740 Creech & Son, South Corbin  | 4.20        | 11.93                     | 8.80              | 38.4                    | 39.5  |
| 4-12-8 (Sulfate) Pulverized<br>7001 Serman Benge, London                   | 4.21        | 12.05                     | 8.64              | 38.4                    | 39.5  |
| 7225 Sanders & Rankin, Lancaster   | 4.26        | 12.00                     | 8.91              | 38.4                    | 39.8  |
| 7330 McCauley Bros. Seed Co., Versailles                                   | 4.23        | 11.50                     | 9.39              | 38.4                    | 39.7  |
| 7562 L. C. McLoney & Son, Cynthiana  | 4.06        | <u>11.23</u>              | 8.78              | 38.4                    | 38.4  |
| 7741 London Grocery, London  | 4.22        | <u>11.83</u>              | 8.67              | 38.4                    | 39.3  |

c. Excess muriate equivalent to 0.42 percent potash

d. " " " 0.32 " "

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty<br>Station No. and From Whom Obtained | Nitrogen | Phos-<br>phoric<br>Acid<br>Avail-<br>able | Potash | Index of<br>Relative Value |       |
|--|----------|---|--------|----------------------------|-------|
|  |          |   |        | Guar.                      | Found |
| KNOXVILLE FERTILIZER COMPANY, (Cont'd)                                   |          |   |        |                            |       |
| 4-12-4 (Muriate)   |          |   |        |                            |       |
| 6927 Morrison & Wallace, Hodgenville                                     | 4.10     | 12.10                                     | 4.25   | 34.4                       | 35.0  |
| 7002 Barnett & Sullivan, Harrodsburg                                     | 4.24     | 12.53                                     | 4.73   | 34.4                       | 36.3  |
| 7003 H. & H. Wholesale Co., Hyden  | 4.20     | 12.20                                     | 4.44   | 34.4                       | 35.5  |
| 7115 Farmers Feed & Supply Co., London                                   | 3.97     | 12.00                                     | 4.27   | 34.4                       | 34.6  |
| 7332 Powell Hackney Grocery, Hazard                                      | 4.13     | 11.45                                     | 4.76   | 34.4                       | 34.8  |
| 7447 Covington Grain & Seed Co., Guthrie                                 | 4.04     | 12.50                                     | 4.71   | 34.4                       | 35.8  |
| 4-12-0 Pulverized  |          |   |        |                            |       |
| 7333 McCauley Bros. Seed Co., Versailles                                 | 4.48     | 12.05                                     | ....   | 28.4                       | 29.4  |
| 7639 Amburgey's Farm Supply, Mt. Sterling                                | 3.35     | 12.00                                     | ....   | 28.4                       | 27.1  |
| 4-8-12 (Sulfate) Pulverized  |          |   |        |                            |       |
| 7004 Barnett & Sullivan, Harrodsburg                                     | 4.34     | 8.55                                      | 12.57  | 37.6                       | 39.5  |
| 7331 McCauley Bros. Seed Co., Versailles                                 | 4.13     | 8.58                                      | 11.88  | 37.6                       | 38.4  |
| 7448 Harrison Brothers, Berea  | 4.21     | 8.90                                      | 12.86  | 37.6                       | 40.0  |
| 7681 Franklin County Hatchery, Frankfort                                 | 4.18     | 8.70                                      | 12.67  | 37.6                       | 39.5  |
| 7742 Harrison Brothers, Berea  | 4.19     | 7.88                                      | 13.18  | 37.6                       | 39.0  |
| 3-9-6 (Muriate)  |          |   |        |                            |       |
| 6840 Mt. Vernon Produce Co., Mt. Vernon                                  | 3.27     | 9.15                                      | 6.60   | 30.8                       | 32.1  |
| 6928 Morrison & Wallace, Hodgenville                                     | 2.95     | 10.10                                     | 6.29   | 30.8                       | 32.3  |
| 7005 Hobart & Milton Roberts, Monticello                                 | 3.06     | 9.10                                      | 6.30   | 30.8                       | 31.3  |
| 7006 Craft Grocery, Manchester   | 3.29     | 9.10                                      | 6.70   | 30.8                       | 32.2  |
| 7226 A. P. Vaught & Co., Science Hill                                    | 3.06     | 9.60                                      | 6.19   | 30.8                       | 31.8  |
| 7227 Phillips Store, Crab Orchard  | 3.31     | 9.80                                      | 6.60   | 30.8                       | 33.0  |
| 7334 McCauley Bros. Seed Co., Versailles                                 | 3.11     | 9.10                                      | 6.36   | 30.8                       | 31.5  |
| 7335 Powell Hackney Grocery, Jackson                                     | 3.07     | 8.73                                      | 6.39   | 30.8                       | 31.0  |
| 7449 Princeton Mills, Princeton  | 3.12     | 10.00                                     | 6.67   | 30.8                       | 32.9  |
| 7640 Princeton Mills, Princeton  | 3.29     | 9.10                                      | 6.24   | 30.8                       | 31.7  |
| 3-9-6 (Muriate 3, Sulfate 3)   |          |   |        |                            |       |
| 6838 Mt. Vernon Produce Co., Mt. Vernon                                  | 3.34     | 9.00                                      | 6.29   | 30.8                       | 31.8  |
| 6839 Shipp & Allen, Campbellsville                                       | 3.21     | 9.98                                      | 6.02   | 30.8                       | 32.4  |
| 7007 Franklin County Hatchery, Frankfort                                 | 3.30     | 9.03                                      | 6.30   | 30.8                       | 31.7  |
| 7008 Clay County Farm Service, Manchester                                | 3.48     | 8.80                                      | 6.57   | 30.8                       | 32.1  |
| 7228 Roscoe Morris Feed Store, Somerset                                  | 3.19     | 9.10                                      | 6.37   | 30.8                       | 31.7  |
| 7336 McCauley Bros. Seed Co., Versailles                                 | 3.21     | 8.88                                      | 6.55   | 30.8                       | 31.6  |
| 7682 City Supply Co., Columbia   | 3.14     | 9.30                                      | 6.91   | 30.8                       | 32.4  |
| 2-12-12 (Muriate) Pulverized   |          |   |        |                            |       |
| 7116 Farmers Feed Market, Bowling Green                                  | 2.57     | 11.70                                     | 11.86  | 38.4                       | 38.9  |
| 7743 Grays Hardware Store, Grays   | 2.22     | 11.95                                     | 9.04   | 38.4                       | 35.8  |
| 2-12-6 (Muriate)   |          |   |        |                            |       |
| 6636 Kennedy Supply Store, Liberty                                       | 2.11     | 12.63                                     | 6.60   | 32.4                       | 34.0  |
| 6841 Shipp & Allen, Campbellsville                                       | 2.17     | 12.95                                     | 6.16   | 32.4                       | 34.0  |
| 7117 Farmers Feed & Supply, London                                       | 2.17     | 12.00                                     | 6.30   | 32.4                       | 33.0  |
| 7229 Central State Hospital, Lakeland                                    | 2.18     | 11.93                                     | 6.32   | 32.4                       | 33.0  |
| 7337 Grayson County Supply Co., Leitchfield                              | 2.28     | 12.70                                     | 6.24   | 32.4                       | 34.0  |
| 7450 Jellico Grocery, Harlan   | 2.43     | 12.80                                     | 6.86   | 32.4                       | 35.1  |
| 7451 Covington Grain & Seed Co., Guthrie                                 | 2.33     | 12.95                                     | 5.88   | 32.4                       | 34.1  |
| 7641 Shaker Feed and Seed Co., South Union                               | 2.21     | 13.03                                     | 5.88   | 32.4                       | 33.9  |
| 7642 Princeton Mills, Princeton  | 2.20     | 12.10                                     | 6.39   | 32.4                       | 33.3  |

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Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty<br>Station No. and From Whom Obtained | Nitrogen | Phos-<br>phoric<br>Acid<br>Avail-<br>able | Potash       | Index of<br>Relative Value |             |
|--|----------|---|--------------|----------------------------|-------------|
|  |          |   |              | Guar.                      | Found       |
| KNOXVILLE FERTILIZER COMPANY, (Cont'd)                                   |          |   |              |                            |             |
| 0-14-7 (Muriate)   |          |   |              |                            |             |
| 6842 Shipp & Allen, Campbellsville                                       | ....     | 14.08                                     | 7.19         | 29.8                       | 30.1        |
| 7118 Farmers Feed Market, Bowling Green                                  | ....     | 13.90                                     | 6.99         | 29.8                       | 31.7        |
| 7338 Grayson County Supply Co., Leitchfield                              | ....     | 14.20                                     | 7.48         | 29.8                       | 30.5        |
| 7683 City Supply Co., Columbia   | ....     | 14.08                                     | 7.32         | 29.8                       | 30.2        |
| 0-14-7 (Muriate) with 60# borax per ton.                                 |          |   |              |                            |             |
| 7744 Grays Hardware Co., Grays (4)                                       | ....     | <u>13.53</u>                              | <u>5.52</u>  | 29.8                       | <u>27.8</u> |
| 0-12-12 (Muriate) Pulverized   |          |   |              |                            |             |
| 7119 Wyndall Feed & Hdw. Store, Owensboro                                | ....     | 12.10                                     | 13.18        | 32.4                       | 35.7        |
| 7339 W. C. Turner, Greensburg  | ....     | 12.90                                     | 12.07        | 32.4                       | 33.6        |
| 7452 H. D. McKeehan, Rockhold  | ....     | 12.73                                     | 12.29        | 32.4                       | 33.6        |
| 7563 Hobart & Milton Roberts, Monticello                                 | ....     | 12.90                                     | 11.98        | 32.4                       | 33.5        |
| 7745 Pineville Wholesale Co., Pineville                                  | ....     | <u>11.45</u>                              | <u>11.67</u> | 32.4                       | 31.4        |
| 47% Superphosphate   |          |   |              |                            |             |
| 6663 Farmers Feed Market, Bowling Green                                  | ....     | 48.95                                     | ....         | 61.1                       | 63.6        |
| 6664 Robinson Cook, Danville   | ....     | 48.78                                     | ....         | 61.1                       | 63.4        |
| 6745 Sherman Bengé, London   | ....     | 48.13                                     | ....         | 61.1                       | 62.6        |
| 7564 Rufus Burton, Monticello  | ....     | 48.85                                     | ....         | 61.1                       | 63.5        |
| 20% Superphosphate, Pulverized   |          |   |              |                            |             |
| 6637 Kennedy Supply Co., Liberty   | ....     | 20.20                                     | ....         | 26.0                       | 26.3        |
| 6746 Sherman Bengé, London   | ....     | 19.55                                     | ....         | 26.0                       | 25.4        |
| 7453 Hill & Pearson, College Hill  | ....     | <u>22.35</u>                              | ....         | 26.0                       | 29.1        |
| 7565 H. M. Smith, Font Hill  | ....     | 20.20                                     | ....         | 26.0                       | 26.3        |
| 33% Ammonium Nitrate   |          |   |              |                            |             |
| 6747 Sherman Bengé, London   | 34.12    | .....                                     | ....         | 66.0                       | 68.2        |
| 50% Muriate of Potash  |          |   |              |                            |             |
| 6748 Princeton Mills, Princeton  | ....     | .....                                     | 48.76        | 45.0                       | 43.9        |
| 48% Sulfate of Potash  |          |   |              |                            |             |
| 6665 Robinson Cook, Danville   | ....     | .....                                     | 50.48        | 52.8                       | 55.5        |
| 6929 Amburgey's Farm Store, Mt. Sterling                                 | ....     | .....                                     | 50.68        | 52.8                       | 55.8        |
| 7009 Saufley & Bell, Stanford  | ....     | .....                                     | 50.28        | 52.8                       | 55.3        |
| 7684 Jewell & Hayden, Bardstown  | ....     | .....                                     | 48.84        | 52.8                       | 53.7        |
| 7746 Mt. Vernon Produce Co., Mt. Vernon                                  | ....     | .....                                     | 48.60 e      | 52.8                       | 53.5        |
| 33.50% Ammonium Nitrate  |          |   |              |                            |             |
| 7120 Farmers Feed & Supply Co., London                                   | 33.36    | .....                                     | ....         | 67.0                       | 66.7        |
| LION OIL COMPANY,<br>Eldorado, Arkansas                                  |          |   |              |                            |             |
| 33.50% Ammonium Nitrate  |          |   |              |                            |             |
| 7454 Fayette Feed Company, Lexington                                     | 33.40    | .....                                     | ....         | 67.0                       | 66.8        |

4. Boron guaranteed 0.34 percent - found 0.18 percent  
e. Excess muriate equivalent to 1.00 percent potash

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty<br>Station No. and From Whom Obtained  | Nitrogen    | Phos-<br>phoric<br>Acid<br>Avail-<br>able | Potash            | Index of<br>Relative Value |       |
|---|-------------|---|-------------------|----------------------------|-------|
|   |             |   |                   | Guar.                      | Found |
| LOUISVILLE FERTILIZER COMPANY,<br>Sub. Armour Fertilizer Works,<br>Cincinnati, O., Nashville, Tenn., Jeffersonville, Ind. |             |   |                   |                            |       |
| 4-12-12 (Muriate)   |             |   |                   |                            |       |
| 7455 Eddyville Penitentiary, Eddyville  | 4.19        | <u>11.68</u>                              | <u>11.39</u>      | 42.4                       | 41.8  |
| 7456 Eddyville Penitentiary, Eddyville  | 4.08        | <u>11.90</u>                              | <u>12.01</u>      | 42.4                       | 42.5  |
| MIDSOUTH CHEMICAL COMPANY,<br>Memphis, Tennessee  |             |   |                   |                            |       |
| 82% Anhydrous Ammonia   |             |   |                   |                            |       |
| 7703 Liquid Fertilizer Co., Wickliffe   | 82.00       | .....                                     | ....              | 123.0                      | 123.0 |
| 7704 Tom Weaver, Hickory  | 82.00       | .....                                     | ....              | 123.0                      | 123.0 |
| NATIONAL TUBE COMPANY,<br>Pittsburgh 19, Pa.  |             |   |                   |                            |       |
| 20.60% Ammonium Sulfate   |             |   |                   |                            |       |
| 7457 Julius & Carl Fister, Lexington  | 20.98       | .....                                     | ....              | 41.2                       | 42.0  |
| NITROGEN FERTILIZER SERVICE,<br>Owensboro, Ky.  |             |   |                   |                            |       |
| 82% Anhydrous Ammonia   |             |   |                   |                            |       |
| 7371 Bartlett & O'Bryan, Owensboro  | 82.00       | .....                                     | ....              | 123.0                      | 123.0 |
| NORTH AMERICAN FERTILIZER COMPANY,<br>Louisville, Ky.   |             |   |                   |                            |       |
| 6-8-6 (Muriate)   |             |   |                   |                            |       |
| 7121 A. S. Gibson, Flemingsburg   | 4.62        | 9.60                                      | 7.24              | 35.6                       | 36.0  |
| 7122 Farmers Co-op Store, Owensboro   | <u>5.80</u> | 8.40                                      | 6.58              | 35.6                       | 36.3  |
| 7230 Bunton Seed Co., Louisville  | 5.82        | 7.90                                      | 6.91              | 35.6                       | 36.0  |
| 7231 Kentucky State Reformatory, LaGrange   | <u>5.50</u> | 8.40                                      | 6.32              | 35.6                       | 35.4  |
| 7458 Western Ky. State Hospital, Hopkinsville   | <u>6.19</u> | 8.70                                      | 7.09              | 35.6                       | 37.9  |
| 7459 Glenn Jackson, Kuttawa   | 5.16        | 8.60                                      | 6.21              | 35.6                       | 34.9  |
| 7460 Hume Grocery, Willisburg   | <u>5.74</u> | 7.90                                      | 7.69              | 35.6                       | 36.7  |
| 7461 Eddyville Penitentiary, Eddyville  | <u>5.52</u> | 8.40                                      | 7.45              | 35.6                       | 36.6  |
| 7462 Eastern State Hospital, Lexington  | <u>5.89</u> | 8.30                                      | 6.99              | 35.6                       | 36.7  |
| 6-8-6 (Sulfate)   |             |   |                   |                            |       |
| 6638 W. D. Cunningham, Webbs Cross Roads  | 5.91        | 8.28                                      | 6.66              | 35.6                       | 36.4  |
| 6639 J. B. Hale, Paint Lick   | 5.70        | 8.60                                      | 6.57 <sup>f</sup> | 35.6                       | 36.3  |
| 6843 W. A. Donovan, Carlisle  | <u>5.60</u> | 8.28                                      | 6.33              | 35.6                       | 35.5  |
| 6844 E. Paul Clark, Lebanon   | <u>5.95</u> | 7.80                                      | 7.35 <sup>g</sup> | 35.6                       | 36.6  |
| 6930 J. B. Lucas Feed & Seed Co., Franklin  | 5.89        | <u>7.53</u>                               | 7.73 <sup>h</sup> | 35.6                       | 36.6  |
| 7010 Childers Grocery, Red House  | 5.70        | 8.35                                      | 6.22              | 35.6                       | 35.6  |
| 7123 Turpin Brothers, Richmond  | <u>5.61</u> | 9.00                                      | 6.49 <sup>i</sup> | 35.6                       | 36.5  |

f. Excess muriate equivalent to 0.33 percent potash.

g. " " " " 0.32 " "

h. " " " " 0.26 " "

i. " " " " 0.50 " "

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Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained | Nitrogen    | Phosphoric Acid Available | Potash  | Index of Relative Value |       |
|---|-------------|---------------------------|---------|-------------------------|-------|
|   |             |                           |         | Guar.                   | Found |
| NORTH AMERICAN FERTILIZER COMPANY, (Cont'd)                           |             |                           |         |                         |       |
| 6-8-6 (Sulfate) (Cont'd)  |             |                           |         |                         |       |
| 7124 Metcalf County Farmers Supply, Edmonton                          | 5.99        | 8.00                      | 6.78    | 35.6                    | 36.4  |
| 7232 J. M. Milling Co., Frankfort                                     | 5.88        | 8.40                      | 6.57    | 35.6                    | 36.4  |
| 7233 Edwards Machine Shop, Bryantsville                               | 5.67        | 8.10                      | 7.00 j  | 35.6                    | 36.1  |
| 7340 Rainbow Coal Co., Versailles                                     | <u>5.55</u> | 7.60                      | 7.99 k  | 35.6                    | 36.2  |
| 7463 S. H. Routt, Hodgenville   | <u>5.73</u> | 8.50                      | 6.21 l  | 35.6                    | 35.9  |
| 7275 Clinton Anderson, Lancaster                                      | <u>5.94</u> | 8.10                      | 6.47    | 35.6                    | 36.1  |
| 7566 Brown & Hart, Falmouth   | 5.85        | 8.80                      | 6.34    | 35.6                    | 36.6  |
| 7643 Farm Service Cooperative, Henderson                              | 5.46        | 7.65                      | 7.10 m  | 35.6                    | 35.2  |
| 7685 Truman Stinnett, Mt. Eden  | <u>5.82</u> | 7.80                      | 7.08    | 35.6                    | 36.1  |
| 4-12-8 (Sulfate)  |             |                           |         |                         |       |
| 6749 Union Grocery, Morehead  | 3.53        | 12.33                     | 8.21    | 38.4                    | 38.1  |
| 6845 Spears-Kiser Co., Paris  | <u>3.82</u> | 11.98                     | 8.10 n  | 38.4                    | 38.1  |
| 6931 Amburgey's Farm Store, Mt. Sterling                              | 3.29        | 11.95                     | 9.14    | 38.4                    | 38.1  |
| 7011 J. M. Milling Co., Frankfort                                     | <u>4.10</u> | 12.00                     | 9.24    | 38.4                    | 39.8  |
| 7125 Farmers Co-op., Owensboro  | 3.87        | 11.83                     | 9.03    | 38.4                    | 39.0  |
| 7126 W. E. Martin, Mt. Olivet   | 3.90        | 11.48                     | 9.78    | 38.4                    | 39.4  |
| 7234 John J. Carter, Waynesburg                                       | 3.75        | <u>11.53</u>              | 10.58 o | 38.4                    | 39.9  |
| 7235 Southern States Co-op., Shelbyville                              | 4.00        | <u>11.75</u>              | 9.68 p  | 38.4                    | 39.8  |
| 7236 Oldham Feed & Supply Co., Buckner                                | 3.89        | 12.00                     | 9.45    | 38.4                    | 39.6  |
| 7341 Gentry McCauley, Versailles                                      | 3.85        | 12.10                     | 8.54    | 38.4                    | 38.8  |
| 7747 Emmick Service Station, Lewisport                                | <u>3.71</u> | 12.00                     | 8.86    | 38.4                    | 38.7  |
| 4-8-12 (Sulfate)  |             |                           |         |                         |       |
| 7237 Southern States Co-op., Shelbyville                              | 3.49        | 8.20                      | 12.88   | 37.6                    | 37.7  |
| 7644 Lucas Feed & Seed Co., Franklin                                  | <u>3.47</u> | 8.60                      | 11.74   | 37.6                    | 37.0  |
| 7686 Grigsby & Co., Bardstown   | <u>3.71</u> | 8.50                      | 12.09 q | 37.6                    | 37.7  |
| 3-12-12 (Muriate)   |             |                           |         |                         |       |
| 6846 Farmers Feed Mill, Lexington                                     | 3.10        | <u>11.35</u>              | 12.73   | 40.4                    | 40.6  |
| 7687 Kentucky Training Home, Frankfort                                | 2.94        | <u>11.93</u>              | 12.94   | 40.4                    | 41.1  |
| 3-12-12 (Muriate 6, Sulfate 6)  |             |                           |         |                         |       |
| 6847 Farmers Feed Mill, Lexington                                     | 3.10        | 11.83                     | 12.28 r | 40.4                    | 40.7  |
| 7464 Lewis Hosley, Lawrenceburg                                       | 2.93        | <u>11.10</u>              | 13.58   | 40.4                    | 40.8  |
| 3-9-6 (Muriate)   |             |                           |         |                         |       |
| 6848 W. A. Donovan, Carlisle  | 2.81        | 8.30                      | 6.69    | 30.8                    | 30.3  |
| 6849 Frank Ballard, Springfield                                       | 3.28        | <u>8.65</u>               | 6.77    | 30.8                    | 31.7  |
| 7238 Carl J. Hagman, Cloverport                                       | 3.06        | <u>8.90</u>               | 6.47    | 30.8                    | 31.3  |
| 7239 I. L. Hancock, Louisville  | 3.34        | 9.30                      | 6.37    | 30.8                    | 32.2  |
| 7465 Renfro Supply Co., Williamsburg                                  | <u>2.70</u> | <u>8.73</u>               | 7.00    | 30.8                    | 30.9  |

j. Excess muriate equivalent to 0.57 percent potash

|    |   |   |   |   |      |   |   |
|----|---|---|---|---|------|---|---|
| k. | " | " | " | " | 0.53 | " | " |
| l. | " | " | " | " | 0.37 | " | " |
| m. | " | " | " | " | 0.62 | " | " |
| n. | " | " | " | " | 1.03 | " | " |
| o. | " | " | " | " | 0.75 | " | " |
| p. | " | " | " | " | 0.34 | " | " |
| q. | " | " | " | " | 0.29 | " | " |
| r. | " | " | " | " | 0.32 | " | " |

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained | Nitrogen    | Phosphoric Acid Available | Potash      | Index of Relative Value |             |
|---|-------------|---------------------------|-------------|-------------------------|-------------|
|   |             |                           |             | Guar.                   | Found       |
| NORTH AMERICAN FERTILIZER COMPANY, (Cont'd)                           |             |                           |             |                         |             |
| 3-9-6 (Muriate) (Cont'd)  |             |                           |             |                         |             |
| 7466 Paul Dunn, Hodgenville   | 2.92        | 9.10                      | 6.81        | 30.8                    | 31.6        |
| 7567 Brown and Hart, Falmouth   | 3.00        | 9.10                      | 5.74        | 30.8                    | 30.7        |
| 7568 H. R. Gilreath, Marshes Siding                                   | 2.77        | 8.58                      | <u>6.75</u> | 30.8                    | 30.6        |
| 7748 Ervin Smith, Hartford  | 2.91        | 9.00                      | 6.76        | 30.8                    | 31.4        |
| 2-12-6 (Muriate)  |             |                           |             |                         |             |
| 7467 Laswell Milling Co., Brodhead                                    | 2.11        | 12.00                     | 7.48        | 32.4                    | 34.1        |
| 7688 Hoskins Store, Campbellsville                                    | 2.03        | <u>11.68</u>              | 6.78        | 32.4                    | 32.9        |
| 60% Muriate of Potash   |             |                           |             |                         |             |
| 7468 Lewis Hosley, Lawrenceburg                                       | .....       | .....                     | 55.96       | 54.0                    | <u>50.4</u> |
| 48% Sulfate of Potash   |             |                           |             |                         |             |
| 7127 Southern States Co-op., Bowling Green                            | .....       | .....                     | 47.96 s     | 52.8                    | 52.8        |
| 7240 J. W. Settle Feed Store, Frankfort                               | .....       | .....                     | 49.48       | 52.8                    | 54.4        |
| 21.50% Sulfate of Potash Magnesia                                     |             |                           |             |                         |             |
| 6640 J. B. Hale, Paint Lick   | .....       | .....                     | 21.84       | 43.0                    | 43.7        |
| OHIO-KARR CHEMICAL CORPORATION, Columbus, Ohio                        |             |                           |             |                         |             |
| 60.50% Muriate of Potash  |             |                           |             |                         |             |
| 6832 Spears-Kiser Co., Paris  | .....       | .....                     | 60.40       | 54.5                    | 54.4        |
| PRICE CHEMICAL COMPANY, Louisville, Ky.                               |             |                           |             |                         |             |
| 6-8-6 (Muriate)   |             |                           |             |                         |             |
| 7241 J. K. Kincaid, Hawesville  | 5.92        | 9.40                      | 6.78        | 35.6                    | 37.9        |
| 6-8-6 (Sulfate)   |             |                           |             |                         |             |
| 6666 Walker Supply Co., Richmond                                      | 6.18        | 8.73                      | 7.99        | 35.6                    | 38.8        |
| 6850 Perryville Ice & Prod. Co., Perryville                           | 6.07        | 9.35                      | 6.86        | 35.6                    | 38.2        |
| 6932 Adams & Murphy, Wellington                                       | 6.06        | 9.03                      | 6.72        | 35.6                    | 37.7        |
| 7013 Sherman Bengé, London  | <u>5.65</u> | 9.40                      | 6.81        | 35.6                    | 37.4        |
| 7242 Stout Feed Store, Mt. Washington                                 | 6.07        | 8.90                      | 6.63        | 35.6                    | 37.5        |
| 4-12-8 (Sulfate)  |             |                           |             |                         |             |
| 6667 Fox Brothers, Winchester   | 4.22        | 13.23                     | 9.45 t      | 38.4                    | 41.8        |
| 6851 Young Seed House, Campbellsville                                 | 4.33        | 12.73                     | 9.45 u      | 38.4                    | 41.4        |
| 7128 Fox Brothers, Winchester   | 4.43        | 13.30                     | 9.02 v      | 38.4                    | 41.8        |
| 7129 Hardin County Mills, Elizabethtown                               | 4.14        | 13.30                     | 9.45*       | 38.4                    | 41.7        |
| 7243 Walters & Thompson, Shelbyville                                  | 4.33        | 12.98                     | 9.28 w      | 38.4                    | 41.5        |
| 7244 Stout Feed Store, Mt. Washington                                 | 4.31        | 13.05                     | 9.58 x      | 38.4                    | 41.9        |
| s. Excess muriate equivalent to 0.69 percent potash                   |             |                           |             |                         |             |
| t. " " " " 0.80 " "   |             |                           |             |                         |             |
| u. " " " " 0.44 " "   |             |                           |             |                         |             |
| v. " " " " 0.41 " "   |             |                           |             |                         |             |
| *. " " " " 0.43 " "   |             |                           |             |                         |             |
| w. " " " " 0.52 " "   |             |                           |             |                         |             |
| x. " " " " 0.50 " "   |             |                           |             |                         |             |

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Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained | Nitrogen | Phosphoric Acid Available | Potash  | Index of Relative Value |       |  |
|---|----------|---------------------------|---------|-------------------------|-------|--|
|   |          |                           |         | Guar.                   | Found |  |
| PRICE CHEMICAL COMPANY, (Cont'd)                                      |          |                           |         |                         |       |  |
| 4-8-12 (Sulfate)  |          |                           |         |                         |       |  |
| 7645 Monarch Milling Co., Mt. Sterling                                | 3.67     | 9.05                      | 12.29 y | 37.6                    | 38.5  |  |
| 3-12-12 (Muriate)   |          |                           |         |                         |       |  |
| 7245 Kentucky State Reformatory, LaGrange                             | 3.64     | 12.40                     | 12.56   | 40.4                    | 42.7  |  |
| 3-12-12 (Sulfate)   |          |                           |         |                         |       |  |
| 6668 Fox Brothers, Winchester   | 3.29     | 12.00                     | 12.28 z | 40.4                    | 41.3  |  |
| 6852 Stanley Penn, Lexington  | 3.16     | 12.23                     | 12.20   | 40.4                    | 41.2  |  |
| 6853 Perryville Ice & Prod. Co., Perryville                           | 3.15     | 12.68                     | 13.01   | 40.4                    | 42.5  |  |
| 6933 Tuxedo Feed Store, Hodgenville                                   | 3.11     | 11.28                     | 12.88 a | 40.4                    | 40.6  |  |
| 7014 Sherman Benge, London  | 3.05     | 13.10                     | 12.41   | 40.4                    | 42.2  |  |
| 7246 Walters & Thompson, Shelbyville                                  | 3.66     | 12.00                     | 12.96   | 40.4                    | 42.7  |  |
| 7343 Woodford Feed Co., Versailles                                    | 3.37     | 12.70                     | 12.72 b | 40.4                    | 42.7  |  |
| 7569 Lemons Brothers, Cynthiana                                       | 3.39     | 12.60                     | 11.52   | 40.4                    | 41.4  |  |
| 3-9-6 (Muriate)   |          |                           |         |                         |       |  |
| 6934 Adams & Murphy, Wellington                                       | 3.54     | 9.58                      | 7.09    | 30.8                    | 33.7  |  |
| 6935 J. H. Lyons, Loretto   | 3.55     | 9.13                      | 6.04    | 30.8                    | 32.1  |  |
| 2-12-6 (Muriate)  |          |                           |         |                         |       |  |
| 7015 Sherman Benge, London  | 2.28     | 12.50                     | 6.54    | 32.4                    | 34.1  |  |
| 7130 Hardin County Mills, Elizabethtown                               | 2.45     | 12.70                     | 6.91    | 32.4                    | 35.1  |  |
| 7247 St. Matthews Produce Exchange, St. Matthews                      | 2.35     | 12.60                     | 6.60    | 32.4                    | 34.4  |  |
| 7646 A. L. Hazle, Hodgenville   | 2.28     | 12.80                     | 6.16    | 32.4                    | 34.1  |  |
| 0-12-12 (Muriate) with 200# tobacco stems                             |          |                           |         |                         |       |  |
| 7248 St. Matthews Prod. Exchange, St. Matthews                        | ....     | 11.85                     | 12.70   | 32.4                    | 32.9  |  |
| 7570 Monarch Milling Co., Mt. Sterling                                | ....     | 12.00                     | 12.96   | 32.4                    | 33.4  |  |
| 50% Muriate of Potash   |          |                           |         |                         |       |  |
| 7689 Central State Hospital, Lakeland                                 | ....     | .....                     | 51.76   | 45.0                    | 46.6  |  |
| A. F. PRINGLE & COMPANY,<br>Charleston, S. C.                         |          |                           |         |                         |       |  |
| 20% Superphosphate  |          |                           |         |                         |       |  |
| 6641 Southern States Co-op., London                                   | ....     | 20.68                     | ....    | 26.0                    | 26.9  |  |
| 6681 C. C. Hdw. Feed & Seed Co., Hartford                             | ....     | 20.18                     | ....    | 26.0                    | 26.2  |  |
| 6750 Southern States Co-op., Hopkinsville                             | ....     | 20.23                     | ....    | 26.0                    | 26.3  |  |
| 6751 Harrison Brothers, Berea   | ....     | 20.15                     | ....    | 26.0                    | 26.2  |  |
| 6854 Southern States Co-op., Cynthiana                                | ....     | 20.48                     | ....    | 26.0                    | 26.6  |  |
| 6936 Farm & Home Store, Prestonsburg                                  | ....     | 20.58                     | ....    | 26.0                    | 26.8  |  |
| 7344 Southern States Co-op., Lebanon                                  | ....     | 20.20                     | ....    | 26.0                    | 26.3  |  |
| 48% Sulfate of Potash   |          |                           |         |                         |       |  |
| 7131 Southern States Co-op., Maysville                                | ....     | .....                     | 50.56   | 52.8                    | 55.6  |  |

y. Excess muriate equivalent to 0.72 percent potash

z. " " " " 0.45 " "

a. " " " " 1.33 " "

b. " " " " 0.27 " "

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty<br>Station No. and From Whom Obtained | Nitrogen | Phos-<br>phoric<br>Acid<br>Avail-<br>able | Potash            | Index of<br>Relative Value |       |
|--|----------|---|-------------------|----------------------------|-------|
|  |          |   |                   | Guar.                      | Found |
| O. M. SCOTT & SONS COMPANY,<br>Marysville, Ohio                          |          |   |                   |                            |       |
| 9-7-4 (Muriate)  |          |   |                   |                            |       |
| 7471 Jack Dayton & Son, Louisville                                       | 9.40     | 8.50                                      | 5.09              | 38.4                       | 42.1  |
| 7749 Corbett Hardware Co., Elizabethtown                                 | 9.44     | 7.80                                      | 5.13              | 38.4                       | 41.4  |
| 7750 The Mitchell Co., Corbin  | 9.36     | 7.60                                      | 4.66              | 38.4                       | 40.5  |
| SWIFT & COMPANY PLANT FOOD DIVISION,<br>National Stock Yards, Ill.       |          |   |                   |                            |       |
| 8-24-8 (Muriate) Red Steer Brand   |          |   |                   |                            |       |
| 7571 George Patmor & Son, Marion   | 7.59     | 23.50                                     | 8.52              | 60.8                       | 59.9  |
| 6-10-4 (Muriate) "Vigoro Brand"  |          |   |                   |                            |       |
| 6630 Hazard Poultry & Supply Co., Hazard                                 | 6.04     | 10.35                                     | 4.17              | 36.0                       | 36.7  |
| 7250 Bunton Seed Company, Louisville                                     | 5.92     | 10.60                                     | 4.67              | 36.0                       | 37.2  |
| 7345 Farmers Supply Co., Roadfork  | 6.30     | 10.60                                     | 4.37              | 36.0                       | 37.7  |
| 7346 W. E. Hearon, Clay  | 5.64     | 10.90                                     | 5.03              | 36.0                       | 37.4  |
| 7572 Sunshine Stores, Paducah  | 5.83     | 10.20                                     | 4.66              | 36.0                       | 36.6  |
| 6-8-6 (Sulfate) "Blenn Brand"  |          |   |                   |                            |       |
| 6855 Spears-Kiser Co., Paris   | 6.11     | 8.05                                      | 6.44              | 35.6                       | 36.3  |
| 7647 Cooper Seed & Feed Co., Bandana                                     | 5.67     | 7.95                                      | 6.64              | 35.6                       | 35.5  |
| 7648 Trigg County Trading Co., Cadiz                                     | 5.78     | 8.10                                      | 6.60 <sup>c</sup> | 35.6                       | 35.9  |
| 7751 Farmers Co-op. Store, Owensboro                                     | 5.56     | 8.80                                      | 6.44              | 35.6                       | 36.1  |
| 5-10-5 (Muriate) Red Steer Brand   |          |   |                   |                            |       |
| 7347 Farmers Supply Co., Roadfork  | 4.95     | 10.70                                     | 5.84              | 35.0                       | 36.6  |
| 5-10-5 (Muriate) "Brimm Brand"   |          |   |                   |                            |       |
| 7348 Farmers Supply Co., Roadfork  | 4.96     | 10.60                                     | 5.54              | 35.0                       | 36.2  |
| 4-24-12 (Muriate) Red Steer Brand  |          |   |                   |                            |       |
| 7573 Burna Feed Co., Burna   | 4.21     | 22.08                                     | 12.24             | 56.8                       | 55.2  |
| 4-12-8 (Muriate) "Brimm Brand"   |          |   |                   |                            |       |
| 6937 Graves County Soil Asso., Mayfield                                  | 4.05     | 12.68                                     | 8.31              | 38.4                       | 39.6  |
| 4-12-8 (Sulfate) "Vigoro Brand"  |          |   |                   |                            |       |
| 7349 Caulke Hdw. Co., Campbellsville                                     | 4.12     | 12.00                                     | 8.60              | 38.4                       | 39.2  |
| 7574 L. N. Kratzer & Son, Mt. Sterling                                   | 4.14     | 12.10                                     | 7.95              | 38.4                       | 38.8  |
| 7690 Dudgeon & Robinson, Campbellsville                                  | 4.05     | 12.20                                     | 7.58              | 38.4                       | 38.3  |
| 7691 J. H. McClure & Son, Springfield                                    | 4.13     | 12.10                                     | 7.58              | 38.4                       | 38.4  |
| 7752 Cooper Brothers Feed Store, Elizabethtown                           | 4.08     | 12.00                                     | 7.79              | 38.4                       | 38.4  |
| 7753 Farmers Cooperative Store, Owensboro                                | 4.11     | 12.00                                     | 8.38              | 38.4                       | 39.0  |
| 4-12-4 (Muriate) Red Steer Brand   |          |   |                   |                            |       |
| 6856 Spears-Kiser Co., Paris   | 3.88     | 12.60                                     | 5.38              | 34.4                       | 36.3  |
| 6938 Yopp Seed Co., Paducah  | 3.88     | 12.53                                     | 5.52              | 34.4                       | 36.3  |

c. Excess muriate equivalent to 0.41 percent potash



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Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained | Nitrogen    | Phosphoric Acid Available | Potash            | Index of Relative Value |       |
|---|-------------|---------------------------|-------------------|-------------------------|-------|
|   |             |                           |                   | Guar.                   | Found |
| SWIFT & COMPANY PLANT FOOD DIVISION, (Cont'd)                         |             |                           |                   |                         |       |
| 3-12-12 (Muriate) Red Steer Brand                                     |             |                           |                   |                         |       |
| 6939 Graves County Soil Asso., Mayfield                               | 3.01        | 12.15                     | 12.09             | 40.4                    | 40.7  |
| 6940 Yopp Seed Co., Paducah   | 2.99        | 12.00                     | 12.13             | 40.4                    | 40.5  |
| 7132 Farmers Co-op Store, Owensboro                                   | 3.02        | 13.50                     | <u>11.34</u>      | 40.4                    | 41.6  |
| 3-12-6 (Muriate) Red Steer Brand                                      |             |                           |                   |                         |       |
| 7350 Farmers Supply Co., Roadfork                                     | 2.99        | 12.60                     | 5.77              | 34.4                    | 34.9  |
| 3-9-18 (Muriate) Red Steer Brand                                      |             |                           |                   |                         |       |
| 7754 Farmers Co-op Store, Owensboro                                   | 3.06        | 9.80                      | 17.20             | 42.8                    | 43.1  |
| 7755 Farmers Co-op Store, Owensboro                                   | 2.96        | 9.40                      | <u>17.28</u>      | 42.8                    | 42.5  |
| 2-12-6 (Muriate)  |             |                           |                   |                         |       |
| 7575 George Patmor & Son, Marion                                      | 2.14        | 12.30                     | 6.41              | 32.4                    | 33.5  |
| 20% Superphosphate  |             |                           |                   |                         |       |
| 7351 Farmers Supply Co., Roadfork                                     | ....        | 20.50                     | ....              | 26.0                    | 26.7  |
| TENNESSEE CORPORATION,<br>Cincinnati 15, Ohio                         |             |                           |                   |                         |       |
| 6-8-6 (Sulfate) "Superior Quality Brand"                              |             |                           |                   |                         |       |
| 6753 Cayce-Yost Co., Hopkinsville                                     | 5.90        | 8.08                      | 6.60              | 35.6                    | 36.1  |
| 6857 Haydon Mill & Grain Co., Lebanon                                 | 6.03        | 7.65                      | 6.53              | 35.6                    | 35.8  |
| 6858 Ice Produce Co., Bardstown                                       | 5.97        | 7.85                      | 6.45              | 35.6                    | 35.8  |
| 7016 Heater & Porter Motor Co., Hustonville                           | 6.10        | 8.05                      | 6.70              | 35.6                    | 36.6  |
| 7133 Davis Gillespie, Mayslick  | <u>5.56</u> | 9.00                      | 6.93              | 35.6                    | 36.9  |
| 7134 Allen Coal & Feed Co., Walton                                    | <u>5.51</u> | 9.50                      | 6.99 <sup>d</sup> | 35.6                    | 37.4  |
| 7251 Denton Mercantile Co., Hillsboro                                 | <u>5.74</u> | 8.30                      | 6.87              | 35.6                    | 36.3  |
| 7252 Walters & Thompson, Shelbyville                                  | 5.88        | 8.40                      | 6.58              | 35.6                    | 36.4  |
| 7253 Farmers Feed Mill, Cloverport                                    | 5.96        | 8.20                      | 6.86              | 35.6                    | 36.6  |
| 7353 W. R. Catron & Son, Campton                                      | 5.89        | 8.60                      | 6.52              | 35.6                    | 36.6  |
| 7472 J. H. Greene, Lexington  | 6.00        | 8.00                      | 6.60              | 35.6                    | 36.2  |
| 7576 Brock Bros. Grain Co., Maysville                                 | 5.82        | 8.10                      | 6.58              | 35.6                    | 35.9  |
| 7577 W. C. Blair, Russell Springs                                     | 5.79        | 7.90                      | 6.80              | 35.6                    | 35.9  |
| 7578 Dorsey Bros. & Fisher, Carlisle                                  | 5.87        | 8.00                      | 6.21              | 35.6                    | 35.6  |
| 7692 W. C. Dulin Feed Store, Taylorsville                             | 5.98        | 8.00                      | 6.55              | 35.6                    | 36.1  |
| 5-10-10 (Muriate) "Superior Quality Brand"                            |             |                           |                   |                         |       |
| 7135 Bi-County Farm Bureau Co-op., Erlanger                           | 4.81        | 11.35                     | <u>9.16</u>       | 40.0                    | 40.4  |
| 5-10-10 (Sulfate) "Superior Quality Brand"                            |             |                           |                   |                         |       |
| 6859 Haydon Mill & Grain Co., Lebanon                                 | 4.90        | 10.28                     | 10.35             | 40.0                    | 40.5  |
| 7136 Bi-County Farm Bureau Co-op., Erlanger                           | 4.90        | 10.70                     | 10.75             | 40.0                    | 41.4  |
| 7137 Davis Gillespie, Mayslick  | <u>4.72</u> | 11.00                     | 10.17             | 40.0                    | 40.8  |
| 7473 G. G. Wood, Carrollton   | <u>4.99</u> | 10.20                     | 10.74             | 40.0                    | 41.0  |
| 7474 Scott McClain, Taylorsville                                      | 4.89        | 10.40                     | 11.05             | 40.0                    | 41.3  |
| 7475 J. H. Greene, Lexington  | 4.91        | 10.60                     | 10.84             | 40.0                    | 41.4  |
| 7756 Farmers Co-op Store, Owensboro                                   | 4.94        | 10.00                     | 10.63             | 40.0                    | 40.5  |

d. Excess muriate equivalent to 0.30 percent potash

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained                  | Nitrogen    | Phosphoric Acid Available | Potash  | Index of Relative Value |       |  |
|--|-------------|---------------------------|---------|-------------------------|-------|--|
|  |             |                           |         | Guar.                   | Found |  |
| TENNESSEE CORPORATION, (Cont'd)  |             |                           |         |                         |       |  |
| 5-10-5 (Muriate) "Loma Brand"<br>7649 Lester Lynd, Ashland                             | 4.95        | 10.10                     | 5.60    | 35.0                    | 35.6  |  |
| 4-24-12 (Muriate) "Superior Quality Brand"<br>7017 Houston Brothers, Brodhead          | 3.94        | <u>23.10</u>              | 11.93   | 56.8                    | 55.5  |  |
| 4-12-8 (Muriate) "Superior Quality Brand"<br>7579 Dorsey Brothers & Fisher, Carlisle   | 3.90        | 11.28                     | 8.88    | 38.4                    | 38.2  |  |
| 7650 Lester Lynd, Ashland  | 3.98        | <u>11.53</u>              | 8.60    | 38.4                    | 38.4  |  |
| 4-12-8 (Sulfate) "Superior Quality Brand"<br>6754 H. T. Roberts, Frenchburg            | 3.85        | 12.53                     | 8.51 e  | 38.4                    | 39.3  |  |
| 6860 Madison Farm Bureau, Richmond   | 4.09        | 12.55                     | 8.18    | 38.4                    | 39.4  |  |
| 6861 Haydon Mill & Grain Co., Lebanon  | 4.04        | 12.00                     | 8.52    | 38.4                    | 39.0  |  |
| 6862 I. K. Miller & Son, Campbellsville  | 4.03        | 12.05                     | 8.60    | 38.4                    | 39.1  |  |
| 7254 Farmers Supply Co., Somerset  | 4.13        | 11.35                     | 8.88    | 38.4                    | 38.8  |  |
| 7255 Walters & Thompson, Shelbyville   | 4.13        | <u>12.10</u>              | 8.88    | 38.4                    | 39.7  |  |
| 7354 I. K. Miller & Son, Campbellsville  | 4.19        | 11.80                     | 8.98 f  | 38.4                    | 39.5  |  |
| 7476 J. H. Greene, Lexington   | 4.06        | 12.70                     | 8.58    | 38.4                    | 39.9  |  |
| 7477 Fay Bell & Son, Clarkson  | 4.12        | 11.53                     | 8.96    | 38.4                    | 39.0  |  |
| 7580 Brock Brothers Grain Co., Maysville   | 4.06        | <u>12.50</u>              | 8.78    | 38.4                    | 39.9  |  |
| 7581 Dorsey Bros. & Fisher, Carlisle   | 4.10        | <u>11.20</u>              | 8.92 *  | 38.4                    | 38.6  |  |
| 4-12-8 (Muriate 4, Sulfate 4) "Superior Quality Brand"<br>7256 Union Grocery, Morehead | 3.97        | 12.20                     | 8.69    | 38.4                    | 39.3  |  |
| 3-12-12 (Muriate) "Superior Quality Brand"<br>7478 J. H. Greene, Lexington             | 3.22        | 12.60                     | 12.40   | 40.4                    | 42.0  |  |
| 7693 Penn Mercantile Co., Mannsville   | 3.24        | 11.20                     | 11.90   | 40.4                    | 40.0  |  |
| 7694 H. R. Squires, Greensburg   | 3.05        | <u>11.50</u>              | 12.47   | 40.4                    | 40.4  |  |
| 3-12-12 (Sulfate) "Superior Quality Brand"<br>7138 Bi-County Farm Bureau, Erlanger     | 3.19        | 12.20                     | 12.50   | 40.4                    | 41.5  |  |
| 7139 Davis Gillespie, Mayslick   | 3.16        | 12.40                     | 12.73   | 40.4                    | 41.9  |  |
| 7355 Southern States Co-op., Leitchfield   | 3.21        | 11.98                     | 12.91   | 40.4                    | 41.7  |  |
| 7479 Scott McClain, Taylorsville   | 3.23        | 11.90                     | 12.88   | 40.4                    | 41.6  |  |
| 7480 L. & R. Feed Store, Owenton   | 3.30        | 12.40                     | 12.52 g | 40.4                    | 42.0  |  |
| 7582 Brock Bros. Grain Co., Maysville  | 3.15        | 11.88                     | 12.22   | 40.4                    | 40.8  |  |
| 7695 Taylor's Farm Service, Beattyville  | 3.39        | 13.73                     | 12.18 h | 40.4                    | 43.4  |  |
| 7696 W. C. Dulin Feed Store, Taylorsville  | 3.24        | 12.00                     | 12.53   | 40.4                    | 41.4  |  |
| 3-9-18 (Sulfate) "Superior Quality Brand"<br>7481 LeBus Brothers, Lexington            | 3.12        | 9.30                      | 18.48   | 42.8                    | 43.9  |  |
| 7482 J. H. Greene, Lexington   | 3.11        | 9.50                      | 18.18   | 42.8                    | 43.8  |  |
| 3-9-6 (Sulfate) "Superior Quality Brand"<br>7257 Stagg Brothers, Vanceburg             | <u>2.52</u> | 11.48                     | 6.08 i  | 30.8                    | 32.9  |  |

e. Excess Muriate equivalent to 0.47 percent potash

|    |   |   |   |      |   |   |
|----|---|---|---|------|---|---|
| f. | " | " | " | 0.33 | " | " |
| *  | " | " | " | 0.36 | " | " |
| g. | " | " | " | 0.58 | " | " |
| h. | " | " | " | 1.16 | " | " |
| i. | " | " | " | 0.87 | " | " |

## Regulatory Bulletin No. 93

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained              | Nitrogen | Phosphoric Acid Available | Potash | Index of Relative Value |       |
|--|----------|---------------------------|--------|-------------------------|-------|
|  |          |                           |        | Guar.                   | Found |
| TENNESSEE CORPORATION, (Cont'd)  |          |                           |        |                         |       |
| 2-12-6 (Muriate)   |          |                           |        |                         |       |
| 6755 G. M. Haycraft & Son, Leitchfield   | 1.99     | 11.75                     | 6.25   | 32.4                    | 32.3  |
| 6863 I. K. Miller & Son, Campbellsville  | 2.08     | 11.85                     | 6.04   | 32.4                    | 32.4  |
| 7018 W. C. Blair, Russell Springs  | 2.07     | 11.90                     | 6.32   | 32.4                    | 32.7  |
| 7140 Davis Gillespie, Mayslick   | 2.12     | 12.10                     | 6.16   | 32.4                    | 32.9  |
| 7258 Denton Mercantile Co., Hillsboro  | 2.19     | 12.70                     | 6.33   | 32.4                    | 34.0  |
| 7259 Walters & Thompson, Shelbyville   | 2.08     | 12.10                     | 6.27   | 32.4                    | 33.0  |
| 7260 Paul Boyd Store, Eubank   | 2.26     | 12.68                     | 6.62   | 32.4                    | 34.4  |
| 7356 Holman Lewis, Summerville   | 2.10     | 12.08                     | 6.44   | 32.4                    | 33.1  |
| 7483 Fay Bell & Son, Clarkson  | 1.99     | 12.30                     | 6.08   | 32.4                    | 32.8  |
| 7583 Keller Hay & Grain Co., Newport   | 2.06     | 12.20                     | 6.16   | 32.4                    | 32.9  |
| 0-20-20 (Muriate) "Superior Quality Brand"   |          |                           |        |                         |       |
| 6864 Haydon Mill & Grain Co., Lebanon  | ....     | 19.05                     | 18.68  | 50.0                    | 47.5  |
| 7019 Houston Brothers, Brodhead  | ....     | 19.25                     | 18.98  | 50.0                    | 48.1  |
| 7141 Bi-County Farm Bureau, Erlanger   | ....     | 18.68                     | 18.94  | 50.0                    | 47.4  |
| 7584 C. M. Warner, Nancy   | ....     | 19.40                     | 19.32  | 50.0                    | 48.6  |
| 7651 Farmers Co-op Store, Owensboro  | ....     | 19.90                     | 19.94  | 50.0                    | 49.8  |
| 7697 Southern States Co-op., Bardstown   | ....     | 18.80                     | 18.16  | 50.0                    | 46.7  |
| 0-20-10 (Muriate) "Superior Quality Brand"   |          |                           |        |                         |       |
| 7020 Baughman Milling Co., Stanford  | ....     | 20.10                     | 10.40  | 40.0                    | 40.5  |
| 7261 H. Warner, Nancy  | ....     | 19.20                     | 10.48  | 40.0                    | 39.5  |
| 20% Superphosphate   |          |                           |        |                         |       |
| 6642 W. C. Blair, Russell Springs  | ....     | 19.60                     | ....   | 26.0                    | 25.5  |
| 6865 N. S. Dudley & Son, Flemingsburg  | ....     | 20.33                     | ....   | 26.0                    | 26.4  |
| 6866 I. K. Miller & Son, Campbellsville  | ....     | 19.90                     | ....   | 26.0                    | 25.9  |
| 7021 Ray Brown, Dunnville  | ....     | 20.50                     | ....   | 26.0                    | 26.7  |
| 7022 Hester & Porter Motor Co., Hustonville  | ....     | 20.40                     | ....   | 26.0                    | 26.5  |
| 7142 D. B. Saylor, Mt. Vernon  | ....     | 20.60                     | ....   | 26.0                    | 27.1  |
| 7262 Walters & Thompson, Shelbyville   | ....     | 19.40                     | ....   | 26.0                    | 25.2  |
| 7484 Platz Garage, Ghent   | ....     | 21.00                     | ....   | 26.0                    | 27.3  |
| 7757 D. B. Saylor, Mt. Vernon  | ....     | 20.50                     | ....   | 26.0                    | 26.7  |
| 60% Muriate of Potash  |          |                           |        |                         |       |
| 6756 H. T. Roberts, Frenchburg   | ....     | .....                     | 60.00  | 54.0                    | 54.0  |
| 50% Sulfate of Potash  |          |                           |        |                         |       |
| 6757 H. T. Roberts, Frenchburg   | ....     | .....                     | 49.84  | 55.0                    | 54.8  |
| 7143 Davis Gillespie, Mayslick   | ....     | .....                     | 51.64  | 55.0                    | 56.8  |
| U. S. PHOSPHORIC PRODUCTS COMPANY,<br>Br. Tennessee Corporation,<br>Lockland, Ohio |          |                           |        |                         |       |
| 46% Florida Superphosphate   |          |                           |        |                         |       |
| 7012 W. C. Blair, Russell Springs  | ....     | 45.85                     | ....   | 59.8                    | 59.6  |
| 7263 H. Warner, Nancy  | ....     | 46.80                     | ....   | 59.8                    | 60.8  |

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained | Nitrogen    | Phosphoric Acid Available | Potash            | Index of Relative Value |       |
|---|-------------|---------------------------|-------------------|-------------------------|-------|
|   |             |                           |                   | Guar.                   | Found |
| VALLEY COUNTIES OF KENTUCKY CO-OP.,<br>Murray, Ky.                    |             |                           |                   |                         |       |
| 62% Calcium Metaphosphate   |             |                           |                   |                         |       |
| 7585 Southern States Co-op., Somerset                                 | ....        | <u>60.85</u>              | ....              | 80.6                    | 79.1  |
| 33% Ammonium Nitrate  |             |                           |                   |                         |       |
| 6759 Southern States Co-op., Hopkinsville                             | 34.34       | .....                     | ....              | 66.0                    | 68.7  |
| VIRGINIA-CAROLINA CHEMICAL CORPORATION,<br>Cincinnati 17, Ohio        |             |                           |                   |                         |       |
| 6-8-6 (Muriate)   |             |                           |                   |                         |       |
| 6669 Madison Farmers Supply, Richmond                                 | 6.02        | 8.23                      | 5.96              | 35.6                    | 35.9  |
| 7264 Dodd's Corner, Nicholasville                                     | 6.00        | 8.60                      | 6.36              | 35.6                    | 36.7  |
| 7358 Farmers Supply Co., Cadiz  | 5.59        | 9.23                      | 6.05              | 35.6                    | 36.3  |
| 7485 Lexington Seed Co., Lexington                                    | <u>6.00</u> | 8.40                      | 6.76              | 35.6                    | 36.8  |
| 7652 C. M. Meachem, Morganfield                                       | 5.59        | 8.80                      | 6.63              | 35.6                    | 36.4  |
| 7653 Paintsville Grocery, Paintsville                                 | 5.99        | 8.50                      | 6.46              | 35.6                    | 36.6  |
| 7699 Paintsville Grocery, Paintsville                                 | 6.01        | 8.20                      | 6.00              | 35.6                    | 35.9  |
| 6-8-6 (Sulfate)   |             |                           |                   |                         |       |
| 6670 Madison Farmers Supply, Richmond                                 | 5.95        | 8.15                      | 6.44              | 35.6                    | 36.1  |
| 6643 Casey County Hatchery, Liberty                                   | 5.78        | 7.80                      | 6.39 <sup>j</sup> | 35.6                    | 35.3  |
| 6697 Grayson Milling Co., Grayson                                     | 5.56        | 8.48                      | 6.11 <sup>k</sup> | 35.6                    | 35.4  |
| 6760 Denton Mercantile Co., Hillsboro                                 | <u>5.65</u> | 8.97                      | 6.42              | 35.6                    | 36.5  |
| 6867 Southern States Co-op., Lebanon                                  | 5.71        | 9.28                      | 6.24              | 35.6                    | 36.8  |
| 6868 Mayes & Helm, Perryville   | <u>5.89</u> | 8.93                      | 6.32              | 35.6                    | 36.8  |
| 6869 Shewmaker & Nally, Springfield                                   | 5.81        | 8.45                      | 6.19              | 35.6                    | 36.0  |
| 6870 Gorman Brown Hdw. Co., Flemingsburg                              | 5.88        | 8.58                      | 6.19              | 35.6                    | 36.3  |
| 7265 Jett Coal & Supply Co., Jett                                     | 5.91        | 8.95                      | 6.52              | 35.6                    | 37.1  |
| 7266 Shelby Feed & Seed Company, Shelbyville                          | 5.93        | 8.60                      | 6.52              | 35.6                    | 36.7  |
| 7359 Dudgeon & Robinson, Campbellsville                               | 6.24        | 8.83                      | 6.04              | 35.6                    | 37.1  |
| 7486 Lexington Seed Co., Lexington                                    | 5.49        | 8.70                      | 6.11 <sup>l</sup> | 35.6                    | 35.5  |
| 7487 Hopkinsville Implement Co., Hopkinsville                         | <u>6.06</u> | 8.50                      | 5.80              | 35.6                    | 36.1  |
| 7586 W. L. Price & Son, Rice Station                                  | 6.07        | 8.90                      | 6.21              | 35.6                    | 37.0  |
| 7700 Hodis Harvey, Breeding   | 5.46        | 9.35                      | 5.98 <sup>m</sup> | 35.6                    | 36.1  |
| 7759 Hardin County Mills, Elizabethtown                               | <u>5.92</u> | 8.50                      | 6.39              | 35.6                    | 36.4  |
| 5-10-5 (Muriate)  |             |                           |                   |                         |       |
| 7360 W. C. & Dixie Bogar, Sidney                                      | 5.04        | 11.15                     | 5.30              | 35.0                    | 36.8  |
| 7361 Belfry Grocery, Belfry   | <u>4.74</u> | 11.23                     | 5.34              | 35.0                    | 36.3  |
| 4-12-8 (Muriate)  |             |                           |                   |                         |       |
| 7267 Shelby Feed & Seed Co., Shelbyville                              | 3.94        | 12.60                     | 8.60              | 38.4                    | 39.6  |
| 7488 Trenton Hardware Co., Trenton                                    | <u>3.57</u> | 13.35                     | <u>7.38</u>       | 38.4                    | 38.5  |

j. Excess muriate equivalent to 0.29 percent potash  
k. " " " " 0.32 " "  
l. " " " " 0.34 " "  
m. " " " " 0.34 " "

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Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained | Nitrogen | Phosphoric Acid Available | Potash                    | Index of Relative Value |             |
|---|----------|---------------------------|---------------------------|-------------------------|-------------|
|   |          |                           |                           | Guar.                   | Found       |
| VIRGINIA-CAROLINA CHEMICAL CORPORATION, (Cont'd)                      |          |                           |                           |                         |             |
| 4-12-8 (Sulfate)  |          |                           |                           |                         |             |
| 6871 Paul Thompson, Sharpsburg  | 3.95     | 11.25                     | 8.24 <sup>n</sup>         | 38.4                    | 37.6        |
| 7144 Big 4 Feed & Impl. Co., Scottsville                              | 4.23     | <u>12.58</u>              | 7.95                      | 38.4                    | 39.5        |
| 7145 R. D. Reynolds, Cave City  | 4.27     | 12.33                     | 8.23                      | 38.4                    | 39.6        |
| 7362 Farmers Supply Co., Cadiz  | 4.19     | 12.10                     | 7.74                      | 38.4                    | 38.6        |
| 7489 Glenwood Hatchery, Carrollton                                    | 4.31     | 12.60                     | <u>8.49</u>               | 38.4                    | 40.2        |
| 7490 Robinson Implement Co., Princeton                                | 4.15     | 11.95                     | 8.21                      | 38.4                    | 38.9        |
| 7587 Stanley Galbraith & Son, Carlisle                                | 4.11     | 12.70                     | 8.86                      | 38.4                    | 40.3        |
| 4-12-8 (Muriate 2, Sulfate 6)   |          |                           |                           |                         |             |
| 6941 Miss Agnes Davis, Russellville                                   | 4.23     | 12.25                     | 8.04                      | 38.4                    | 39.2        |
| 4-12-4 (Muriate)  |          |                           |                           |                         |             |
| 7363 W. C. & Dixie Bogar, Sidney                                      | 4.23     | 12.60                     | 4.27                      | 34.4                    | 35.9        |
| 7701 F. Simon, Neon   | 4.03     | 12.50                     | 4.11                      | 34.4                    | 35.2        |
| 4-8-12 (Sulfate)  |          |                           |                           |                         |             |
| 6682 Spencer Co. Farm & Home Service, Taylorsville                    | 3.92     | 8.78                      | 11.96                     | 37.6                    | 38.3        |
| 6872 Gorman Brown Hdw. Co., Flemingsburg                              | 4.11     | 8.55                      | 12.21                     | 37.6                    | 38.7        |
| 7146 George Keeton, Winchester  | 3.81     | 8.90                      | 12.03                     | 37.6                    | 38.3        |
| 7268 Shelby Feed & Seed Co., Shelbyville                              | 3.82     | 8.70                      | 11.98                     | 37.6                    | 38.1        |
| 7491 Cecil Bell, Lexington  | 3.84     | 8.60                      | 11.96                     | 37.6                    | 38.0        |
| 3-12-12 (Muriate 3, Sulfate 9)  |          |                           |                           |                         |             |
| 6761 Denton Mercantile Co., Hillsboro                                 | 2.84     | 12.35                     | 10.09                     | 40.4                    | 38.6        |
| 6942 Miss Agnes Davis, Russellville                                   | 3.30     | 12.30                     | <u>11.62</u> <sup>o</sup> | 40.4                    | <u>41.0</u> |
| 7023 Knox County Supply Co., Barbourville                             | 3.00     | 12.40                     | <u>12.42</u>              | 40.4                    | 41.3        |
| 7269 McWhorter & Boyle, Paint Lick                                    | 3.08     | 12.80                     | 11.95                     | 40.4                    | 41.5        |
| 7270 Shelby Feed & Seed Co., Shelbyville                              | 3.06     | 12.80                     | 12.36                     | 40.4                    | 41.8        |
| 7492 Farm Equipment Co., Bedford                                      | 3.27     | 12.20                     | <u>11.73</u>              | 40.4                    | 40.9        |
| 3-9-6 (Muriate)   |          |                           |                           |                         |             |
| 6698 Grayson Milling Co., Grayson                                     | 3.05     | 8.28                      | 6.25                      | 30.8                    | 30.3        |
| 6762 Denton Mercantile Co., Hillsboro                                 | 3.00     | <u>9.35</u>               | 6.44                      | 30.8                    | 31.7        |
| 6943 Francis Wholesale Co., Prestonsburg                              | 3.12     | 9.30                      | 6.04                      | 30.8                    | 31.4        |
| 6944 Miss Agnes Davis, Russellville                                   | 3.02     | 9.13                      | 6.52                      | 30.8                    | 31.5        |
| 7147 J. B. Curtis, Smiths Grove                                       | 2.99     | 9.13                      | 6.27                      | 30.8                    | 31.2        |
| 7271 McWhorter & Boyle, Paint Lick                                    | 3.18     | 9.60                      | 6.37                      | 30.8                    | 32.3        |
| 7364 Mountain Wholesale Co., Lothair                                  | 3.03     | 9.50                      | 6.19                      | 30.8                    | 31.7        |
| 3-9-6 (Sulfate)   |          |                           |                           |                         |             |
| 7272 Stagg Brothers, Vanceburg  | 3.09     | 9.30                      | 6.29 <sup>p</sup>         | 30.8                    | 31.6        |
| 7588 Vitatoe General Store, Monticello                                | 3.05     | 9.40                      | 6.36                      | 30.8                    | 31.7        |
| 2-12-6 (Muriate)  |          |                           |                           |                         |             |
| 6683 Hardin County Mills, Elizabethtown                               | 1.90     | 12.78                     | 6.31                      | 32.4                    | 33.5        |
| 6763 Denton Mercantile Co., Hillsboro                                 | 2.00     | 12.10                     | 6.15                      | 32.4                    | 32.7        |
| 6764 Farmers Supply Co., Morganfield                                  | 1.92     | 13.08                     | 6.01                      | 32.4                    | 33.5        |
| 6873 U. L. Rogers, Columbia   | 1.96     | 12.58                     | 6.39                      | 32.4                    | 33.4        |

n. Excess muriate equivalent to 1.77 percent potash

o. " " " " 0.29 " "

p. " " " " 5.02 " "

Analyses of Official Fertilizer Samples

Table 1 - Analyses of Inspection Samples of Mixed Fertilizers, Superphosphate, and Fertilizer Salts---Continued

| Manufacturer, Brand Name, Guaranty Station No. and From Whom Obtained | Nitrogen | Phosphoric Acid Available | Potash | Index of Relative Value |       |  |
|---|----------|---------------------------|--------|-------------------------|-------|--|
|   |          |                           |        | Guar.                   | Found |  |
| VIRGINIA-CAROLINA CHEMICAL CORPORATION, (Cont'd)                      |          |                           |        |                         |       |  |
| 2-12-6 (Muriate) (Cont'd)   |          |                           |        |                         |       |  |
| 7148 Big Four Feed & Impl. Co., Scottsville                           | 2.00     | 13.10                     | 5.88   | 32.4                    | 33.6  |  |
| 7273 Stag Brothers, Vanceburg   | 2.30     | 12.80                     | 6.47   | 32.4                    | 34.4  |  |
| 7365 Farmers Supply Co., Morganfield                                  | 2.01     | 12.75                     | 6.34   | 32.4                    | 33.7  |  |
| 7654 Miss Agnes Davis, Russellville                                   | 2.30     | 12.20                     | 6.97   | 32.4                    | 34.2  |  |
| 0-20-20 (Muriate)   |          |                           |        |                         |       |  |
| 7366 Farmers Supply Co., Morganfield                                  | ....     | 20.00                     | 19.78  | 50.0                    | 49.8  |  |
| 0-12-12 (Muriate)   |          |                           |        |                         |       |  |
| 6699 Grayson Milling Co., Grayson                                     | ....     | 12.40                     | 11.44  | 32.4                    | 32.3  |  |
| 6765 Farmers Supply Co., Morganfield                                  | ....     | 12.40                     | 10.64  | 32.4                    | 31.5  |  |
| 7655 C. M. Meachem, Morganfield                                       | ....     | 12.30                     | 12.72  | 32.4                    | 33.5  |  |
| 45% Superphosphate  |          |                           |        |                         |       |  |
| 7760 Clay County Farm Service, Manchester                             | ....     | 45.03                     | ....   | 58.5                    | 58.5  |  |
| 20% Superphosphate  |          |                           |        |                         |       |  |
| 6766 Farmers Supply Co., Morganfield                                  | ....     | 19.95                     | ....   | 26.0                    | 25.9  |  |
| 6874 Paul Thompson, Sharpsburg  | ....     | 20.00                     | ....   | 26.0                    | 26.0  |  |
| 6875 Gorman Brown Hdw. Co., Flemingsburg                              | ....     | 20.53                     | ....   | 26.0                    | 26.7  |  |
| 7367 Dudgeon & Robinson, Campbellsville                               | ....     | 20.98                     | ....   | 26.0                    | 27.3  |  |
| 7368 Grigsby & Co., Bardstown   | ....     | 20.40                     | ....   | 26.0                    | 26.5  |  |
| 7493 Interstate Grocery, Jellico, Tenn.                               | ....     | 20.70                     | ....   | 26.0                    | 26.9  |  |
| 7494 Lexington Seed Co., Lexington                                    | ....     | 20.00                     | ....   | 26.0                    | 26.0  |  |
| 16% Nitrate of Soda   |          |                           |        |                         |       |  |
| 7656 Paintsville Grocery, Paintsville                                 | ....     | 16.06                     | ....   | 48.0                    | 48.2  |  |
| 50% Muriate of Potash   |          |                           |        |                         |       |  |
| 6671 Madison Farmers Supply, Richmond                                 | ....     | .....                     | 48.28  | 45.0                    | 43.5  |  |
| 7589 Madison Farmers Supply, Richmond                                 | ....     | .....                     | 50.56  | 45.0                    | 45.5  |  |
| 48% Sulfate of Potash   |          |                           |        |                         |       |  |
| 6700 Grayson Milling Co., Grayson                                     | ....     | .....                     | 44.08  | 52.8                    | 48.5  |  |
| 6876 Southern States Co-op., Lebanon                                  | ....     | .....                     | 51.64  | 52.8                    | 56.8  |  |
| 7024 Madison Farmers Supply, Richmond                                 | ....     | .....                     | 48.92  | 52.8                    | 53.8  |  |
| 7274 Shelby Feed & Seed Co., Shelbyville                              | ....     | .....                     | 50.16  | 52.8                    | 55.2  |  |
| 7369 Grigsby & Co., Bardstown   | ....     | .....                     | 51.20  | 52.8                    | 56.3  |  |

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TABLE 2 - Analyses of Inspection Samples of Rock Phosphate, Basic Slag, etc.  
January - June 1951

| Manufacturer, Brand Name, Guaranty,<br>Station No. and From Whom Obtained   | Phosphoric Acid |       |       |       | Index of rela-<br>tive value |       |
|---|-----------------|-------|-------|-------|------------------------------|-------|
|   | Available       |       | Total |       | Guar.                        | Found |
|   | Guar.           | Found | Guar. | Found |                              |       |
| <b>THE AMERICAN AGRICULTURAL CHEMICAL COMPANY,<br/>Cincinnati, O.</b>       |                 |       |       |       |                              |       |
| Ground Phosphate Rock   |                 |       |       |       |                              |       |
| 7155 Central State Hospital, Lakeland                                       | 3.00            | 3.00  | 30.00 | 30.70 | 15.0                         | 15.4  |
| 7599 Farmers Co-op Store, Owensboro   | 3.00            | 3.75  | 30.00 | 31.00 | 15.0                         | 15.5  |
| 7709 Herndon Brothers, Berea  | 3.00            | 3.10  | 30.00 | 30.50 | 15.0                         | 15.3  |
| <b>AMERICAN CYANAMID COMPANY,<br/>New York 20, N. Y.</b>                    |                 |       |       |       |                              |       |
| Florida Natural Phosphate "Aero Phos Brand"                                 |                 |       |       |       |                              |       |
| 7764 Southern States Cooperative, LaGrange                                  | 3.00            | 2.90  | 33.00 | 33.00 | 16.5                         | 16.5  |
| <b>THE DAVISON CHEMICAL CORPORATION,<br/>Nashville, Tenn.</b>               |                 |       |       |       |                              |       |
| Ground Phosphate Rock   |                 |       |       |       |                              |       |
| 7670 Carter Sparks, Edmonton  | ....            | ....  | 33.00 | 33.50 | 16.5                         | 16.8  |
| <b>ROBIN JONES PHOSPHATE COMPANY,<br/>Nashville, Tenn.</b>                  |                 |       |       |       |                              |       |
| Rock Phosphate "Arrow Brand"  |                 |       |       |       |                              |       |
| 7249 Kentucky State Reformatory, LaGrange                                   | 2.00            | 2.60  | 30.00 | 30.75 | 15.0                         | 15.4  |
| 7737 Robert Mahaffey, Greenhall   | 2.00            | 2.50  | 30.00 | 30.50 | 15.0                         | 15.3  |
| <b>RUHM PHOSPHATE &amp; CHEMICAL COMPANY,<br/>Mt. Pleasant, Tenn.</b>       |                 |       |       |       |                              |       |
| Phosphate Rock "Red Seal Brand"   |                 |       |       |       |                              |       |
| 6752 Farmers Supply Co., Morganfield  | ....            | ....  | 30.00 | 29.80 | 15.0                         | 14.9  |
| 7469 Ralph Berry, Port Royal  | ....            | ....  | 30.00 | 30.25 | 15.0                         | 15.1  |
| <b>TENNESSEE COAL, IRON &amp; RAILROAD COMPANY,<br/>Birmingham, Alabama</b> |                 |       |       |       |                              |       |
| Low Grade Open Hearth Basic Slag  |                 |       |       |       |                              |       |
| 7352 Shipp & Allen, Campbellsville  | ....            | ....  | 8.00  | 12.70 | 8.0                          | 12.7  |

Analyses of Official Fertilizer Samples

TABLE 2 - Analyses of Inspection Samples of Rock Phosphate, Basic Slag, etc.  
January - June 1951

| Manufacturer, Brand Name, Guaranty,<br>Station No. and From Whom Obtained | Phosphoric Acid |       |       |       | Index of rela-<br>tive value |       |
|---|-----------------|-------|-------|-------|------------------------------|-------|
|   | Available       |       | Total |       | Guar.                        | Found |
|   | Guar.           | Found | Guar. | Found |                              |       |
| THOMPSON SALES COMPANY,<br>Montgomery, Ala.                               |                 |       |       |       |                              |       |
| Soft Phosphate with Colloidal Clay, "Calphos Brand"                       |                 |       |       |       |                              |       |
| 7698 J. R. Griffin, Lyndon  | ....            | ....  | 20.00 | 22.35 | 10.0                         | 11.2  |
| THOMSON PHOSPHATE COMPANY,<br>Chicago, Ill.                               |                 |       |       |       |                              |       |
| Powdered Rock Phosphate (Florida), "Four Leaf Brand"                      |                 |       |       |       |                              |       |
| 6758 W. P. Burchett, Morehead   | 2.00            | 4.40  | 31.00 | 31.70 | 15.5                         | 15.9  |
| 7357 Ernest Neal, Paintsville   | 2.00            | 3.75  | 31.00 | 31.95 | 15.5                         | 16.0  |
| Powdered Rock Phosphate "Four Leaf"                                       |                 |       |       |       |                              |       |
| 7758 R. D. Adams, London  | 2.00            | 2.25  | 30.00 | 30.05 | 15.0                         | 15.0  |

TABLE 3 - Analysis of Inspection Samples of Bones, Dried Manures, etc.  
January - June 1951

| Manufacturer, Brand Name, Guaranty<br>Station No. and From Whom Obtained | Nitrogen | Phosphoric<br>Acid<br>Total | Index of<br>Relative Value |       |
|--|----------|-----------------------------|----------------------------|-------|
|  |          |                             | Guar.                      | Found |
| SEWERAGE COMMISSION CITY OF MILWAUKEE<br>Milwaukee 1, Wis.               |          |                             |                            |       |
| 6-2.75-0 "Milorganite"   |          |                             |                            |       |
| 7470 Bunton Seed Co., Louisville   | 5.76     | 4.15                        | 38.8                       | 38.7  |

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