

ing has been attempted to date because of the relatively low level of inbreeding which has prevailed and the limited number of breeding animals in the project.

The management of the experimental cattle includes weighing each cow and calf immediately following parturition. Summer pasture breeding is practiced and the calves are born during the spring of each year. The cows are wintered on dry native grass. The calves are not creep fed during the suckling period. All calves are weaned, weighed, and scored for type when they are approximately six months old and the standardized weaning age for weaning weight correction is 180 days. The calves are placed on individual feeding trials for record-of-performance tests for 182 days shortly after they are weaned. Body weight gain and feed consumption records are maintained on all calves during the feeding period. The calves are scored for type or conformation as yearlings when they complete the prescribed feeding test.

The full-feed ration for the bulls consists of 75% cracked corn and 25% chopped alfalfa hay; that for the heifers, 55% cracked corn and 45% chopped alfalfa hay. All calves are fed twice daily by means of individual feeders while the feed tests are in progress.

Production data for the 1961 calves are summarized in Table 21. The 1961 calves had not completed their feeding test at the time of this report, so production data for them are not included. Thirty-four calves of the 1962 calf crop are being individually fed.

# Swine

## Kansas Swine Improvement Association Testing Station

Bert A. Koch and Wendell A. Moyer

The boar testing program was changed to a slaughter-pig testing program a year ago. The testing station committee of the Association made the change because of the difficulty in identifying carriers of infectious atrophic rhinitis. In the group of boars tested during the winter of 1961-62, one of the better performing boars showed positive symptoms of infectious atrophic rhinitis soon after he sold. Yet he had shown no symptoms of infection while on test.

Table 22 lists data collected during the summer 1962 test. In every case, two litter mate pigs were fed in a pen. The pigs received ration S-35-A until they weighed approximately 150 pounds when they were changed to ration S-47. Ration compositions are shown in Table 23. Average testing cost per pig was \$34 and the average return per carcass was \$36. Twenty of the 42 pigs on test met or exceeded carcass certification requirements.

Table 24 lists data collected during the winter 1962-63 test. Pigs in this test received ration S-35-A throughout the growing-finishing period. Average testing cost per pig was \$25 and the average return per carcass was \$32. Fourteen of the 38 pigs on test met or exceeded carcass certification requirements.

Tables 25 and 26 list testing costs in some detail.

Table 22  
Kansas Swine Testing Station—Summer 1962  
Pigs put on test between April 1, 1962, and May 15, 1962

| Breeder        | PRODUCTION DATA |                     |                              | CARCASS DATA  |              |               |             |                 |           |        |
|----------------|-----------------|---------------------|------------------------------|---------------|--------------|---------------|-------------|-----------------|-----------|--------|
|                | Sex             | B                   | Age at<br>200 lbs.<br>(days) | A.D.G.<br>lb. | Feed<br>eff. | Leath.<br>in. | R.F.<br>in. | L.E.<br>sq. in. | %<br>L.C. | Index  |
| W. Talkington  | B               | D                   | 147                          | 1.88          | 252          | 28.8          | 1.50        | 3.62            | 50.3      | 66.1   |
| Matfield Green | B               | D                   | 146                          | 1.84          |              | 28.9          | 1.22        | 3.35            | 51.0      | 52.8   |
| W. Talkington  | G               | D                   | 150                          | 1.72          | 274          | 28.6          | 1.10        | 4.95            | 53.5      | 59.5   |
| Marfield Green | B               | D                   | 156                          | 1.84          |              | 29.2          | 1.45        | 4.13            | 51.2      | 82.3   |
| W. Talliaferro | G               | H                   | 157                          | 1.54          | 296          | 29.9          | 1.10        | 5.33            | 56.0      | 102.3  |
| Effingham      | B               | H                   | 143                          | 1.81          |              | 28.75         | 1.45        | 4.40            | 50.7      | 72.8   |
| W. Talliaferro | G               | H                   | 171                          | 1.35          | 284          | 29.7          | 1.17        | 5.14            | 55.8      | 101.4  |
| Effingham      | B               | H                   | 161                          | 1.57          |              | 29.55         | 1.15        | 5.27            | 56.9      | 109.7  |
| O. Hughes      | B               | Y                   | 160                          | 1.75          | 292          | 31.1          | 1.22        | 4.07            | 56.0      | 90.7   |
| Broughton      | B               | Y                   | 163                          | 1.75          |              | 29.6          | 1.57        | 3.54            | 47.3      | 52.4   |
| F. Alexander   | G               | D                   | 148                          | 1.75          | 275          | 29.55         | 1.20        | 4.47            | 54.1      | 80.7   |
| Corning        | B               | D                   | 143                          | 1.96          |              | 30.1          | 1.40        | 4.19            | 51.3      | 65.9   |
| M. Shipley     | G               | H                   | 164                          | 1.44          | 294          | 29.4          | 1.37        | 4.47            | 54.3      | 103.7  |
| Esbon          | B               | H                   | 158                          | 1.56          |              | 29.95         | 0.95        | 4.66            | 56.8      | 97.6   |
| C. E. Wittum   | B               | PC                  | 158                          | 1.63          | 306          | 28.0          | 1.27        | 4.40            | 52.2      | 91.0   |
| Caldwell       | G               | PC                  | 180                          | 1.25          |              | 29.25         | 0.98        | 5.33            | 56.3      | 110.3  |
| Bathrop Farm   | G               | H                   | 154                          | 1.57          | 310          | 29.45         | 1.15        | 4.84            | 55.4      | 93.4   |
| Wichita        | B               | H                   | 163                          | 1.48          |              | 29.75         | 1.23        | 2.50            | 49.9      | 66.0   |
| Bathrop Farm   | G               | H                   | 139                          | 1.75          | 304          | 28.5          | 1.50        | 4.02            | 56.1      | 75.2   |
| Wichita        | B               | H                   | 138                          | 1.76          |              | 29.2          | 1.30        | 4.17            | 50.3      | 78.7   |
| O'Bryan Ranch  | G               | H                   | 140                          | 1.86          | 290          | 30.9          | 1.30        | 4.58            | 53.8      | 94.8   |
| Hiattville     | B               | H                   | 140                          | 1.92          |              | 29.2          | 1.30        | 4.46            | 51.6      | 80.6   |
| O'Bryan Ranch  | G               | H                   | 150                          | 1.43          | 334          | 29.1          | 1.12        | 3.70            | 54.0      | 87.0   |
| Hiattville     | B               | H                   | 152                          | 1.43          |              | 28.8          | 1.50        | 3.35            | 49.5      | 62.5   |
| O'Bryan Ranch  | G               | H                   | 158                          | 1.50          | 296          | 30.85         | 1.25        | 4.24            | 54.4      | 93.4   |
| Hiattville     | B               | H                   | 151                          | 1.57          |              | 29.3          | 1.38        | 3.93            | 51.7      | 77.3   |
| O'Bryan Ranch  | B               | H                   | 133                          | 1.66          | 312          | 30.35         | 1.22        | 3.94            | 53.0      | 89.4   |
| Hiattville     | B               | H                   | 133                          | 1.63          |              | 31.65         | 1.13        | 4.43            | 56.1      | 93.3   |
| O'Bryan Ranch  | B               | H                   | 152                          | 1.58          | 309          | 30.4          | 1.10        | 4.10            | 51.7      | 69.0   |
| Hiattville     | B               | H                   | 160                          | 1.57          |              | 29.55         | 1.18        | 4.60            | 53.8      | 84.0   |
| J. V. Cundiff  | G               | S                   | 163                          | 1.42          | 309          | 29.45         | 1.12        | 4.14            | 55.4      | 97.4   |
| Talmage        | B               | S                   | 143                          | 1.87          |              | 28.5          | 1.47        | 3.46            | 51.5      | 79.6   |
| J. V. Cundiff  | G               | S                   | 171                          | 1.36          | 302          | 28.60         | 1.13        | 4.44            | 52.5      | 95.4   |
| Talmage        | B               | S                   | 152                          | 1.65          |              | 29.35         | 1.28        | 4.04            | 53.6      | 91.4   |
| Juniata Farm   | B               | D                   | 168                          | 1.49          | 295          | 29.15         | 1.12        | 3.43            | 52.9      | 71.3   |
| Manhattan      | B               | D                   | 168                          | 1.46          |              | 30.10         | 1.13        | 3.88            | 54.4      | 92.8   |
| Juniata Farm   | B               | H                   | 154                          | 1.50          | 318          | 28.25         | 1.43        | 4.06            | 50.7      | 83.6   |
| Manhattan      | G               | H                   | 169                          | 1.40          |              | 30.1          | 1.32        | 4.73            | 53.5      | 100.3  |
| KSU            | G               | P                   | 174                          | 1.32          | 299          | 28.70         | 1.33        | 5.13            | 53.6      | 112.3  |
| Manhattan      | B               | P                   | 158                          | 1.57          |              | 28.95         | 1.25        | 4.93            | 53.6      | 93.3   |
| KSU            | G               | D                   | 153                          | 1.65          | 264          | 29.35         | 1.27        | 4.15            | 52.3      | 88.5   |
| Manhattan      | B               | D                   | 140                          | 1.96          |              | 28.85         | 1.10        | 4.50            | 52.6      | 88.0   |
| 11 Breeders    |                 | 42 Pigs (26B + 16G) | 154                          | 1.62          | 299          | 29.4          | 1.25        | 4.28            | 53.0      | 86.5   |
|                |                 |                     | (133                         | (1.96         | (274         | (31.6         | (0.95       | (3.35           | (56.9     | (62.4  |
|                |                 |                     | 186)                         | 1.32)         | 334)         | 28.0)         | 1.57)       | 5.33)           | 47.3)     | 112.3) |

SUMMARY

1. B = breed; A.D.G. = average daily gain; Feed efficiency = an average for two pigs fed together.  
 2. Leath. = carcass length; R.F. = average carcass backfat; L.E. = loin eye area; % L.C. = % lean cuts or carcass weight basis; Index = index according to 1962 National Barrow Show Index to pig with 5.00 sq. in. of loin eye and 15% of live weight in trimmed ham with index 100.0.  
 3. Highest indexing carcass meeting or exceeding all certification requirements.

Table 23  
Composition of rations used in swine trials.<sup>1</sup>

| Ration no.                        | 29-B                         |                   | 29-C              |                   | 33                |                   | 34-34A <sup>2</sup><br>35-35A |                          | Pellet<br>Sorghum | Pellet<br>Sorghum |
|-----------------------------------|------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------------|--------------------------|-------------------|-------------------|
|                                   | Meal or pellet<br>Grain used | Pellet<br>Sorghum | Pellet<br>Sorghum | Pellet<br>Sorghum | Pellet<br>Sorghum | Pellet<br>Sorghum | See note 2<br>See note 2      | See note 2<br>See note 2 |                   |                   |
| <b>Rations</b>                    |                              |                   |                   |                   |                   |                   |                               |                          |                   |                   |
| Corn or sorg. grain, lbs.         | 1,524                        | 1,524             | 1,544             | 1,544             | 1,550             | 1,544             | 1,544                         | 1,450                    |                   |                   |
| Soybean oil meal, lbs.            | 250                          | 250               | 202               | 202               | 400               | 200               | 200                           | 350                      |                   |                   |
| Fish scraps (50% l), lbs.         | .....                        | .....             | 60                | 60                | .....             | 60                | 60                            | .....                    |                   |                   |
| Fish meal (60% l), lbs.           | .....                        | .....             | 40                | 40                | .....             | 40                | 40                            | .....                    |                   |                   |
| Dried skim milk, lbs.             | 50                           | 50                | .....             | .....             | .....             | .....             | .....                         | .....                    |                   |                   |
| Brewers yeast, lbs.               | 20                           | 20                | .....             | .....             | .....             | .....             | .....                         | .....                    |                   |                   |
| Melasses, lbs.                    | .....                        | .....             | 50                | 50                | .....             | 50                | 50                            | .....                    |                   |                   |
| Dehyd. alf. meal, lbs.            | .....                        | .....             | 60                | 60                | .....             | 60                | 60                            | 150                      |                   |                   |
| Dicalcium phosphate, lbs.         | .....                        | .....             | 15                | 15                | 20                | 15                | 15                            | 20                       |                   |                   |
| Limestone, lbs.                   | 8                            | 8                 | 8                 | 8                 | 8                 | 8                 | 10                            | 20                       |                   |                   |
| Bonemeal, lbs.                    | 8                            | 8                 | .....             | .....             | .....             | .....             | .....                         | .....                    |                   |                   |
| Salt, lbs.                        | 8                            | 8                 | 10                | 10                | 10                | 10                | 10                            | 10                       |                   |                   |
| T-M premix (5% Zn), lbs.          | 0.5                          | 0.5               | .....             | .....             | .....             | .....             | .....                         | .....                    |                   |                   |
| Vitamin A, I.U.                   | 200,000                      | 800,000           | 2,000,000         | 2,000,000         | 3,000,000         | 3,000,000         | 3,000,000                     | 2,000,000                |                   |                   |
| Vitamin D, I.U.                   | 120,000                      | 120,000           | 300,000           | 300,000           | 300,000           | 300,000           | 300,000                       | 300,000                  |                   |                   |
| Vitamin E, I.U.                   | .....                        | 20,000            | .....             | 20,000            | .....             | 20,000            | 20,000                        | .....                    |                   |                   |
| B-complex, lbs. <sup>3</sup>      | 2                            | 2                 | 2                 | 2                 | 2                 | 2                 | 2                             | 2                        |                   |                   |
| D-L-Methionine, lbs.              | .....                        | .....             | 2                 | 2                 | .....             | 2                 | 2                             | .....                    |                   |                   |
| Lysine (20% lysine), lbs.         | .....                        | .....             | 2                 | 2                 | .....             | 2                 | 2                             | .....                    |                   |                   |
| Aurofine 1.S-1.S lbs.             | .....                        | .....             | 6                 | 6                 | 6                 | 6                 | 6                             | .....                    |                   |                   |
| Proform 20, lbs.                  | 1                            | 1                 | .....             | .....             | .....             | .....             | .....                         | .....                    |                   |                   |
| Arsanilic acid, gms. <sup>4</sup> | .....                        | .....             | .....             | .....             | .....             | .....             | .....                         | .....                    |                   |                   |

1. All rations prepared by Department of Flour and Feed Milling Industries.

2. Rations 34 and 34A contained corn.

3. Rations 34 and 35A contained sorghum.

4. Rations 34 and 35 were fed in meal form.

5. Rations 34A and 35A were fed in pellet form.

6. Contained 2.6 gms. riboflavin; 6.0 gms. niacin; 4.68 gms. D-pantothenic acid and 20.0 gms. choline chloride per lb. of supplement.

7. Supplied by Abbott Laboratories, North Chicago, Ill.

Table 24  
Kansas Swine Testing Station—Winter 1962-63  
Pigs put on test between October 1, 1962, and November 15, 1962

| Breeder        | Sex | Age at<br>start<br>(days) | PRODUCTION DATA |              |                  | CARCASS DATA |                 |           |       |       |
|----------------|-----|---------------------------|-----------------|--------------|------------------|--------------|-----------------|-----------|-------|-------|
|                |     |                           | A.D.G.<br>lbs.  | Feed<br>eff. | Leth.<br>sq. in. | R.P.<br>lb.  | L.E.<br>sq. in. | %<br>L.C. | Index |       |
| J. Talkington  | B   | Y                         | 159             | 1.80         | 292              | 29.4         | 1.37            | 3.85      | 52.9  | 83.8  |
| Matfield Green | B   | Y                         | 153             | 1.87         | .....            | 30.5         | 1.55            | 3.93      | 51.1  | 82.3  |
| J. Talkington  | B   | Y                         | 159             | 1.81         | 331              | 28.2         | 1.42            | 4.79      | 54.6  | 94.4  |
| Matfield Green | B   | Y                         | 177             | 1.44         | .....            | 27.1         | 1.48            | 4.57      | 52.6  | 82.4  |
| W. Talkington  | B   | D                         | 164             | 1.87         | 321              | 28.6         | 1.27            | 3.74      | 51.9  | 76.2  |
| Matfield Green | B   | D                         | 158             | 1.79         | .....            | 30.7         | 1.32            | 4.05      | 52.1  | 78.3  |
| N. Walker      | B   | Y                         | 134             | 2.07         | 300              | 29.8         | 1.48            | 4.08      | 51.0  | 84.9  |
| McPherson      | G   | Y                         | 138             | 1.99         | .....            | 30.2         | 1.25            | 5.61      | 55.1  | 106.8 |
| N. Walker      | B   | Y                         | 143             | 2.04         | 285              | 30.2         | 1.23            | 4.15      | 53.5  | 79.4  |
| McPherson      | G   | Y                         | 139             | 2.08         | .....            | 30.5         | 1.32            | 4.26      | 53.2  | 86.2  |
| F. Germann     | B   | D                         | 148             | 1.92         | 319              | 29.1         | 1.42            | 3.94      | 52.3  | 88.4  |
| Dwight         | B   | D                         | 148             | 1.77         | .....            | 29.2         | 1.20            | 4.47      | 52.4  | 94.4  |
| M. Shipley     | B   | H                         | 171             | 1.59         | 324              | 28.8         | 1.12            | 4.94      | 56.6  | 100.0 |
| Esbon          | G   | H                         | 173             | 1.56         | .....            | 28.1         | 1.33            | 4.69      | 55.0  | 105.7 |
| Maurer-Neuer   | B   | H                         | 149             | 2.06         | 316              | 29.4         | 1.37            | 4.72      | 54.3  | 94.2  |
| Arkansas City  | B   | H                         | 161             | 1.73         | .....            | 27.0         | 1.43            | 4.73      | 55.0  | 106.9 |
| Maurer-Neuer   | B   | Y                         | 168             | 1.72         | 337              | 30.2         | 1.47            | 3.95      | 49.2  | 78.7  |
| Arkansas City  | B   | Y                         | 150             | 2.07         | .....            | 30.0         | 1.72            | 3.89      | 48.4  | 68.9  |
| Maurer-Neuer   | B   | Y                         | 174             | 1.58         | 328              | 30.6         | 1.27            | 4.92      | 52.9  | 93.6  |
| Arkansas City  | B   | Y                         | 164             | 1.80         | .....            | 31.0         | 1.22            | 4.25      | 54.4  | 94.9  |
| J. Balthrop    | B   | H                         | 178             | 1.45         | 366              | 29.1         | 1.00            | 4.37      | 57.4  | 102.5 |
| Wichita        | B   | H                         | 170             | 1.55         | .....            | 28.9         | 1.05            | 3.91      | 58.1  | 89.4  |

1. B = bred; A.D.G. = average daily gain during test period; Feed efficiency = an average for two pigs fed together.

2. Leth. = carcass length; R.P. = average carcass backfat; L.E. = loin eye area; % L.C. = % lean cuts on carcass weight basis;

Index = index according to 1962 National Barrow Show Index in pig with 3.00 sq. in. of loin eye and 14% of live weight in trimmed

ham with index 100.0.

Table 24 (Continued)

| Breeder       | PRODUCTION DATA     |   |                        | CARCASS DATA           |                     |                        |                        |                        |                        |                         |
|---------------|---------------------|---|------------------------|------------------------|---------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|
|               | Sex                 | B | Age at 200 lbs. (days) | A.D.G. lbs.            | Feed eff.           | Legth. in.             | R.F. in.               | L.F. sq. in.           | % L.C.                 | Index                   |
| J. Balthrop   | B                   | H | 165                    | 1.68                   | 378                 | 27.6                   | 1.38                   | 4.92                   | 54.3                   | 88.0                    |
| Wichita       | G                   | H | 172                    | 1.47                   |                     | 27.5                   | 1.13                   | 4.74                   | 54.7                   | 92.6                    |
| J. Balthrop   | B                   | H | 186                    | 1.27                   | 412                 | 29.2                   | 1.05                   | 4.33                   | 56.4                   | 97.7                    |
| Wichita       | G                   | H | 181                    | 1.42                   |                     | 28.0                   | 1.07                   | 4.64                   | 56.4                   | 105.2                   |
| W. Huston     | B                   | D | 151                    | 1.86                   | 339                 | 28.0                   | 1.62                   | 3.57                   | 49.4                   | 66.9                    |
| Amevians      | G                   | D | 162                    | 1.86                   |                     | 28.1                   | 1.38                   | 4.52                   | 54.0                   | 100.6                   |
| O'Bryan Ranch | B                   | H | 152                    | 1.45                   | 330                 | 30.1                   | 0.93                   | 5.35                   | 61.7                   | 111.3 <sup>1</sup>      |
| Hiatville     | G                   | H | 162                    | 1.36                   |                     | 28.4                   | 0.95                   | 5.87                   | 61.1                   | 131.8                   |
| O'Bryan Ranch | B                   | H | 160                    | 1.73                   | 344                 | 29.4                   | 1.16                   | 3.82                   | 53.9                   | 82.0                    |
| Hiatville     | G                   | H | 146                    | 1.52                   |                     | 33.02                  | 1.00                   | 4.58                   | 58.3                   | 109.3                   |
| O'Bryan Ranch | G                   | H | 179                    | 1.65                   | 330                 | 28.9                   | 1.12                   | 5.60                   | 57.7                   | 99.5                    |
| Hiatville     | G                   | H | 210                    | 1.27                   |                     | 28.3                   | 0.87                   | 4.79                   | 60.1                   | 112.3                   |
| O'Bryan Ranch | B                   | H | 160                    | 1.25                   | 332                 | 28.0                   | 0.85                   | 4.59                   | 62.7                   | 117.3                   |
| Hiatville     | G                   | H | 143                    | 1.44                   |                     | 29.5                   | 1.05                   | 5.48                   | 40.2                   | 117.3 <sup>2</sup>      |
| KSU           | B                   | D | 138                    | 1.88                   | 366                 | 27.8                   | 1.43                   | 3.92                   | 48.7                   | 74.9                    |
| Manhattan     | G                   | D | 149                    | 1.61                   |                     | 29.4                   | 1.18                   | 4.93                   | 53.8                   | 87.6                    |
| 10 Breeders   | 38 Pigs (26B + 12G) |   | 160<br>(134<br>210)    | 1.69<br>(2.08<br>1.26) | 334<br>(285<br>412) | 29.0<br>(27.0<br>31.6) | 1.25<br>(0.93<br>1.72) | 4.48<br>(3.57<br>5.87) | 54.7<br>(48.4<br>52.7) | 93.9<br>(68.9<br>131.8) |

## SUMMARY

1. B = breed; A.D.G. = average daily gain during test period; Feed efficiency = an average for two pigs fed together.  
 2. Legth. = carcass length; R.F. = average carcass backfat; L.F. = loin eye area; % L.C. = % lean cuts on carcass weight basis; Index = index according to 1952 National Barrow Show Index (a pig with 5.00 sq. in. of loin eye and 19% of live weight in trimmed ham will index 100.0).  
 3. Highest indexing carcass meeting or exceeding all certification requirements.  
 4. Cryptorchid.

Table 25  
Swine testing expenses—summer 1962

|   |            |
|---|------------|
| Slaughter charge (42 pigs @ \$7.00)             | \$ 294.00  |
| Labor (297.5 hours @ \$1.15)                    | 342.12     |
| Electricity                                     | 000.00     |
| Feed (9 tons)                                   | 516.97     |
| Veterinary service and medicine                 | 58.70      |
| Bedding and fly spray                           | 20.00      |
| Supplies and equipment                          | 60.00      |
| Postage, envelopes, etc.                        | 6.00       |
| Depreciation and maintenance (42 pigs @ \$5.00) | 210.00     |
|   | \$1,447.79 |

\$1,447.79 ÷ 42 = \$34.47 per pig  
(Rounded to \$34.00)

Table 26  
Swine testing expense—winter 1962-63

|   |           |
|---|-----------|
| Slaughter charge (38 pigs @ \$7.00)             | \$ 266.00 |
| Labor (123 hours @ \$1.15)                      | 141.45    |
| Electricity (Oct. through Feb.)                 | 78.60     |
| Feeds (8 tons)                                  | 482.16    |
| Veterinary service and medicine                 | 26.50     |
| Supplies and equipment                          | 11.00     |
| Bedding and fly spray                           | 10.00     |
| Postage, envelopes, etc.                        | 13.75     |
| Depreciation and maintenance (38 pigs @ \$5.00) | 190.00    |
|   | \$ 959.46 |

\$959.46 ÷ 38 = \$25.25 per pig  
(Rounded to \$25.00)

Actual production cost was \$18.25 per pig or approximately \$13.00 per 100 pounds of gain.

## Concrete Floor vs. Elevated Wooden, Slotted Floor (Project 110).

B. A. Koch

The practice of raising pigs on an elevated slotted floor is receiving wide publicity. Slotted floors have been used in various parts of the world for many years, but they have only recently been used extensively in this country. Slotted floors take some of the labor from swine production and permit pigs in growing-finishing units to be crowded.

## Experimental Procedure

Twenty-four feeder pigs weighing approximately 50 pounds each were divided into two similar groups for this study. The pigs had previously been vaccinated for hog cholera and erysipelas and had been wormed with piperazine. They were placed in two adjacent pens. One pen had a slotted floor raised nine inches above the original concrete floor. The other pen had a concrete floor. Manure was allowed to collect under the slotted floor.

The slotted floor sections were made up of oak slats 1¼ inches wide with ¾-inch slots between slats. The sections were purchased commercially. Railroad cross-ties were used to elevate the floor above the concrete.