

Wintering Steer Calves on Corn Silage and Concentrates

On November 3, 1959, thirty-two steer calves averaging 404 pounds were divided into four equal lots. All were fed a full feed of corn silage with 1 $\frac{27}{31}$ pounds alfalfa hay, and three to six pounds of ground oats, ground barley, and dried beet pulp. Soybean meal was fed at $\frac{27}{31}$ pound per day to lots receiving 6 pounds of concentrates and at 1 pound per day to lots receiving 3 pounds of concentrates. Stilbestrol implants were used across lots, 3 in each lot received 24 Mg., 3 in each lot received 12 Mg., and 2 in each lot received none.

| Table 6. Steer Calves on Corn Silage and Concentrates, with and without Stilbestrol Implants. | | | | |
|---|-------|-------|-------|-------|
| | Lot 1 | Lot 2 | Lot 3 | Lot 4 |
| No. Steers/lot | 8 | 8 | 8 | 8 |
| Initial Wt. | 404.3 | 403.1 | 405.6 | 405.0 |
| Final Wt. | 796.3 | 756.3 | 757.5 | 764.4 |
| Av. Daily Gain | 2.21 | 2.0 | 1.99 | 2.03 |
| Days on Feed | 177 | 177 | 177 | 177 |
| Daily Rations: | | | | |
| Corn Silage | 26.9 | 31.0 | 31.0 | 25.8 |
| Alfalfa Hay | 1.5 | 1.5 | 1.5 | 1.5 |
| Soybean Meal | .49 | .98 | .98 | .49 |
| Ground Oats | 2.96 | | 2.93 | 1.95 |

| | | | | |
|--|---------|---------|---------|---------|
| Ground Barley | 2.96 | 2.93 | | 1.95 |
| Dried Beet Pulp | | | | 1.95 |
| Bonemeal & Salt, 3:1 | .20 | .20 | .20 | .20 |
| Feed Per 100 Lb. Gain: | | | | |
| Corn Silage | 1223 | 1562 | 1568 | 1279 |
| Alfalfa Hay | 68 | 75 | 76 | 74 |
| Soybean Meal | 22 | 49 | 49 | 24 |
| Ground Oats | 135 | | 148 | 96 |
| Ground Barley | 135 | 148 | | 96 |
| Dried Beet Pulp | | | | 96 |
| Bonemeal & Salt, 3:1 | 8.9 | 9.9 | 9.9 | 9.6 |
| Feed Cost/100 Lb. Gain | \$10.81 | \$11.07 | \$11.39 | \$11.93 |
| Stilbestrol Implants: | | | | |
| | 24 Mg. | 12 Mg. | Check | |
| Initial Wt. | 406.3 | 401.3 | 406.9 | |
| Final Wt. | 776.7 | 7767 | 744.4 | |
| Av. Daily Gain | 2.09 | 2.12 | 1.91 | |
| Feed Prices: Dried Beet Pulp - \$41.00T, Ground Oats, \$35.00T, Ground Barley, \$31.00T, Corn Silage, \$7.20T, Alfalfa Hay, \$18.00T, Soybean Meal, \$80.00T, Steamed Bonemeal, \$120.00T, Trace Mineral Salt, \$56.00T. | | | | |

All lots made excellent gains, ranging from a low of 1.99 pounds per day on 3 pounds of oats and 1 pound of soybean meal, to a high of 2.21 pounds per day on 3 pounds of oats, 3 pounds of barley and $\frac{21}{5}$ pound of soybean meal. The fastest gaining lot also was the lot making the cheapest gains, \$10.81 per 100 Lb. beef produced. The most costly gains were in the lot receiving equal parts of oats, barley and beet pulp. Daily gains were slightly lower than for steers fed barley and oats in equal parts; and beet pulp at \$41.00 per ton, was more costly than oats at \$35.00, or barley at \$31.00.

Stilbestrol implants appeared to increase gains by about one-fifth pound per day at either the 12 Mg. or 24 Mg. level. In two preceding trials, steer calves with 24 Mg. stilbestrol implants outgained non-implanted steers by .06 pound and .26 pound per day respectively.

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