

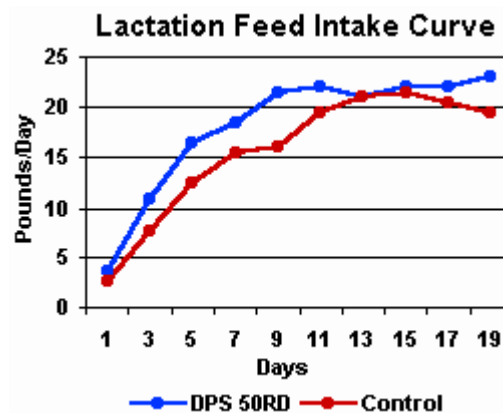
Veterinary Medical Center, Worthington, MN, Sow Lactation Field Trial

INTRODUCTION: A field trial conducted by the Veterinary Medical Center, Worthington, Minnesota in a 650 sow, farrow-to-wean operation, examined the influence of adding 1% DPS 50RD to the sow lactation diet of multi-parous sows on the performance of lactating sows and their litters. In this trial, the sows receiving DPS went on feed quicker and consumed more feed/day over the entire lactation period, than the sows on the control diet without DPS. Additionally, the sows on DPS weaned heavier pigs and had a shorter wean to first service interval than the sows on the control diet. The sows farrowed in February and March of 2000.

MATERIALS & METHODS: Maternal line, mixed-parity sows were tested in this trial, 54 sows on the control diet and 78 sows on the diet including DPS 50RD. The sows were all gestated in individual crates and were fed a common gestation diet. The lactation diet was corn-soybean meal based with a total lysine content of 1.10% and DPS was substituted at the expense of soybean meal at 0 and 1% of the total diet. Litter size was equalized by cross fostering. Sows were fed twice daily and care was taken to insure that all the feed was consumed before additional feed was offered. The pigs were fed no creep feed.

Trial Summary

	Controls	DPS 50RD
Parity	2.7	3.4
ADFI Days 0-7	9.58	12.67
ADFI Days 0-20	16.4	18.4
Average Weight/Pig Weaned (lbs)	13.2	14.4
Pigs Weaned /Litter	8.0	9.2
Days Wean to 1st Service	6.9	5.5
Sow Condition Score In	3.11	3.64
Sow Condition Score Out	2.94	3.58



RESULTS: In this trial the sows on 1% DPS 50RD went on feed more quickly than the sows on the control diet without DPS. The sows on DPS consumed 3.1 pounds more feed per day than the control sows days 0 to 7 of lactation. Overall, days 0 to 20 (weaning) the sows on DPS had 2 pounds more ADFI than the control sows. The sows on DPS had a 1.4 days shorter wean to first service interval compared to the control sows. In terms of litter performance, the pigs weaned from sows that had received DPS 50RD during lactation were 1.2 pounds heavier per pig than the pigs weaned from sows receiving no DPS, even though the sows on DPS weaned 1 more pig per litter. The addition or deletion of DPS to the lactation diet did not effect sow condition.