

yields during the 15th week after implantation of 10 to 29.8 pounds of milk daily. About 60 percent of the individuals yielded more milk in the 15th week than in the 10th, 7th or 4th week, suggesting slower attainment of maximum yields than usually is expected. Neither maximum nor total milk yields appear to equal normal production.

Treatment of cows in advanced lactation with stilbestrol tablet implants led to prompt drying off. Complete records were unobtainable on some animals under farm conditions but fairly complete statements concerning production were given for 91 heifers and 5 cows. Six heifers treated 16 to 33 weeks did not come into milk. Thirty-two heifers produced between 4,000 and 9,808 pounds of milk in 41 to 80 weeks (average of 57 weeks), while yields of the remainder were at lower levels.

The above review indicates wide differences in the responses of individual animals, heifers generally coming into lactation when treated with this estrogen. Cows responded irregularly and at less satisfactory levels than did heifers.

EFFECT ON SEXUALITY

Folley and co-workers (14) described the nymphomania: "Two of the three non-pregnant Ayrshire cows, which received subcutaneous injections of 1 g. diethylstilbestrol in aqueous suspension exhibited, some time after the injections, typical symptoms of nymphomania, namely, raised tail-head, sunken pelvic bones, and a persistent or frequently recurring tendency to ride, or be ridden by, other cows. Palpation of the ovaries of these two cows *per rectum* revealed no evidence of the presence of ovarian cysts or indeed of any abnormality whatever."

Lewis (21) believed that stilbestrol, unless given in low dosage, tends to cause the ovaries to become inactive while under treatment. He warned that stilbestrol may cause abortion in pregnant cows.

A goat fed 1.25 milligrams daily of stilbestrol for the last 73 days of pregnancy dropped a normal kid (23). The ovaries of 1 goat under treatment for 428 days were degenerated until normal ovarian tissue was absent, while another under treatment for 427 days had several small follicles on the ovaries. Another goat had normal ovaries, the treatment having been discontinued 72 days. The ovaries of 3 were quiescent, though otherwise normal, and the ovaries of a sixth goat had a corpus luteum.