

Animal	Stil- bestrol Tablets	Days Im- planted	Absorbed per Day	Total Milk	Lactation
	grains		milligrams	pounds	days
Heifers:					
Guernsey	4.0	94	5.6	2,893	273 dry
Jersey	4.0	80	6.4	7,053	435*
Shorthorn	4.0	77	8.8	none
Shorthorn	4.0	90	10.3	5,174	365*
Shorthorn	2.5	90	4.9	6,649	365*
Cow:					
Brit-Friesain....	2.5	115	3.0	6,484	301

* Still in milk.

Farmers regarded the treatment as not economically practical with a sufficient proportion of animals.

Petersen (26) cited earlier work to the effect that: "In most cases with sterile heifers as large udders and levels of milk flow can be attained artificially as would be expected following a normal calving. In older sterile dry cows only occasionally as large udder development and satisfactory levels of milk production obtained from the diethylstilbestrol treatment."

EFFECT ON MILK COMPOSITION

Shortly after announcement of the new synthetic estrogen diethylstilbestrol by Dodd and associates (7), its effect was tested by Folley and Watson (12) by implanting 1 gram subcutaneously in a 1,100-pound Shorthorn cow advancing in lactation. The daily milk yield was practically unaffected. An increase in percentage of lactose accompanied a significant rise in the non-fatty solids. The content of phosphatase rose and fell sharply.

Folley and associates (14) drenched 1 cow with stilbestrol in water, injected others subcutaneously with the dipropionate ester, and implanted powdered stilbestrol subcutaneously. They observed a temporary increase in solids-not-fat and to a lesser extent in butterfat percentages. Milk yields decreased when large doses of stilbestrol were administered and some pregnant cows aborted.

The milk of goats stimulated to lactation by stilbestrol inunction was analyzed by Folley, Watson and Bottomley (15). They observed from analyses of milk obtained during the first 14 weeks of inunction that the casein was low, globulin high, fat and solids-not-fat high initially and then lower. They commented: "These changes are qualitatively similar to those which