

THE EFFECT OF SWEET, BITTER AND MICRONIZED BITTER LUPINS ON
DUCKLING PERFORMANCE.

M D OLVER & ALIDA JONKER

Animal Nutrition and Animal Products Institute, Private Bag X2,
Irene, 1675.

Republic of South Africa.

ABSTRACT:

- 1) An experiment was conducted to determine the feeding value of sweet white lupins (Lupinus albus variety Hanti) bitter lupins (Lupinus angustifolius) and micronized bitter lupins (Lupinus angustifolius) on ducklings performance to six weeks of age.
- 2) Two hundred and forty day-old male ducklings of the Cherry Valley Super M2 strain were used. Each pen consisted of five male ducklings. There were three replicates of each treatment.
- 3) Three isocaloric and isonitrogenous diets were formulated with one containing 0% lupins and the other two containing 40% sweet or bitter lupins respectively. The micronized bitter lupins were assumed to have the same composition as the raw bitter lupins. The three lupin diets were then blended in such a manner with the 0% lupin diet to produce 16 experimental diets containing 0, 5, 10, 20, 30 and 40% sweet, bitter and micronized lupins respectively.
- 4) Significant linear responses ($P < 0,01$) were observed with bitter lupins whereas no responses were observed with sweet or micronized lupins as the percentage of lupins in the diet increased. Thus in duckling diets sweet and micronized bitter lupins can replace all the soyabean in the diet.