



MAURITIUS SUGAR INDUSTRY RESEARCH INSTITUTE

Recommendation Sheet No 58
(January 1991)

FERTILIZER REQUIREMENTS OF POTATO

Profitable potato production must take into consideration yield responses to applied fertilizers as well as soil nutrient levels. As soil P and K (0.1 M H_2SO_4 extract) threshold values for maximum yield have now been established, the following fertilizer recommendations for full stand potato cultivation are made:

Recommendation for P and K fertilizers

<u>Soil P test value</u> (ppm)	<u>P_2O_5 to apply at planting</u> (kg/ha)
< 125	200
125-150	150
150-175	100
> 175	50

<u>Soil K test value</u> (m.e per cent)	<u>K_2O to apply at planting</u> (kg/ha)
< 0.55	150
0.55-0.65	125
> 0.65	100

Recommendation for N fertilizers

Based on yield responses only, and in the absence of a reliable method for measuring soil available N, it is considered necessary to apply an average of 100-150 kg N/ha depending on expected yield. All of the N can be applied at planting.