

## Lady's finger (cv.B.O.2)

### Basic data and fertilizer adjustment equations.

Nutrient	Basic data			Fertilizer adjustment equations
	NR (kg/q)	Cs (%)	Cf (%)	
N	2.4	40	22	FN = 6.8 T – 1.8 SN
P <sub>2</sub> O <sub>5</sub>	0.7	65	34	F P <sub>2</sub> O <sub>5</sub> = 2.2 T – 1.9 S P <sub>2</sub> O <sub>5</sub>
K <sub>2</sub> O	1.6	75	35	FK <sub>2</sub> O = 4.7 T – 2.1 S K <sub>2</sub> O

Where NR - Nutrient Requirement (Kg/q)

**Cs** - Soil Efficiency;

**Cf**- Fertilizer Efficiency

**T** - Targeted yield(Q/ha);

**SN** - Soil available N (Kg/ha)

**SP<sub>2</sub>O<sub>5</sub>** - Soil available P<sub>2</sub>O<sub>5</sub> (Kg/ha)

**SK<sub>2</sub>O** - Soil available K<sub>2</sub>O (Kg/ha)

### Ready reckoner of fertilizer doses at varying soil test values for specific yield targets.

Available soil nutrients (kg ha <sup>-1</sup> )			Fertilizer nutrients required (kg ha <sup>-1</sup> )								
			Targeted yield (50 q ha <sup>-1</sup> )			Targeted yield (60 q ha <sup>-1</sup> )			Targeted yield (70 q ha <sup>-1</sup> )		
N	P <sub>2</sub> O <sub>5</sub>	k <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	k <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	k <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	k <sub>2</sub> O
140	20	70	88	72	88	156	94	135	224	116	182
150	25	80	70	63	67	138	85	114	206	107	161
160	30	90	62	53	46	120	75	93	188	97	142

### Ready reckoner of fertilizer doses at varying soil test values for specific yield targets.

Available soil nutrients (kg ha <sup>-1</sup> )			Fertilizer nutrients required (kg ha <sup>-1</sup> )								
			Targeted yield(250qha-1)			Targeted yield (275q ha-1)			Targeted yield(300 q ha-1)		
N	P <sub>2</sub> O <sub>5</sub>	k <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	k <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	k <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	k <sub>2</sub> O
140	20	60	296	89	197	341	102	224	386	114	252
160	25	70	274	80	184	319	93	211	364	105	239
180	30	80	252	71	171	297	84	198	342	96	226
200	35	90	230	62	158	275	75	185	320	87	213
220	40	100	208	53	145	253	66	172	298	78	200
240	45	120	186	44	132	231	57	159	276	69	187
260	50	140	164	35	119	209	48	146	254	60	174
280	55	160	142	26	106	187	39	133	232	51	161
300	60	180	120	17	93	165	30	120	210	42	148
320	65	200	98	8	80	143	21	107	188	33	135

(NB : when the calculated fertilizer requirement values are almost zero, a minimum dose, say 20 kg ha<sup>-1</sup> for N and 10 kg ha<sup>-1</sup> each for P and K are added to the calculated values to bring the dose to a reasonable one).