

Windmill (Pvt) Ltd

Name:
Date:



Production requirements for 1 ha of Groundnuts

(1 hectare - 2.47 acres)

Seed requirements . Will vary depending on variety, planting date and seed size. +/- 100kg seed/ha

Seed dress with Vitavax Plus or Thiram or Apron Star before planting seed.

Groundnuts grow well on sandy soil and do not favour acid soils - pH required 5.3 - 5.8 best

Sow seed in row 35-45 cm apart and 5 - 10 cm apart in row as soon as good rains fall; before end of November.

Harvesting - lift crop when 50-80% of pods contain mature kernals, dry on 'A' frams or in 'cocks' for 3 - 4 weeks.

Pod Yield 1.5 - 3.5 t/ha

Fertilizer requirements		Product	Rate/ha	Nitrogen	Phosphate	Potash	Sulphur	Calcium	Boron	Comments/Remarks
Base dressing	Compound C/ C Xtra	5:15:12:11S+0.1B	250 kg	13	38	30	28	-	0.25	All at Planting
Top dressing	Gypsum OR	22Ca:17.5S	200 kg				35	44		Top dressing rows @ 8-12 w.a.p.
		TOTALS	450 kg	13	38	30	63	44	0.25	
Base dressing	Compound L	4:17:11:8.5S + 0.25B	225 kg	9	38	25	19		0.56	All at Planting
Top dressing	Gypsum OR	22Ca:17.5S	200 kg				35	44		Top dressing rows @ 8-12 w.a.p.
		TOTALS	425 kg	9	38	25	54	44	0.56	
Base dressing	Compound D/ D Xtra	7:14:7:9S	250 kg	18	35	18	22	-	-	All at Planting
Top dressing	Gypsum	22Ca:17.5S	200 kg				35	44		Top dressing rows @ 8-12 w.a.p.
		TOTALS	450 kg	18	35	18	57	44		

Herbicides, Pesticides and Fungicides.

Problem	Product	Application rate.	Application / Comments	Product for 1 ha	Pack Size
Broadleaf Weeds	Terbutryn 50 SC	132-240ml/15 lt water knapsack	Pre-emergent -Higher mixing rate required for heavier clay soils. *Not registered under 20% clay soils*	2.2 - 3.0 lt	1 lt
	Basagran 48 EC/Ben	180-300ml/15 lt water knapsack	Post emergent after first Trifoliolate leaf stage of crop. Heavier rate for Nutsedge	3 - 5 lt	1,5&20 lt
Mainly grasses and some	Dual 960EC/Metolach	78-114 ml/15 lt water knapsack	Pre emergent. Apply immediately after planting. High rate for heavier soils	1.3 - 1.9 lt	1,5&20 lt
	Acetochlor 90 EC	56-225 ml/15 lt water knapsack	Pre emergent. Apply immediately after planting. High rate for heavier soils	0.75-3.0 lt	1,5&10 lt
Broadleaf weeds & Nutsedge	Bateleur Gold 650 EC	52-128 ml/15 lt water knapsack	Pre emergent. Apply immediately after planting. High rate for heavier soils	0.7-1.7 lt	1&5 lt
	Frontier Optima	45-90 ml/15 lt water knapsack	Pre emergent. Apply immediately after planting. High rate for heavier soils		
Grasses only	Agil 100EC/Propaqui	30 - 130ml/15 lt water knapsack	Post emergent to grasses. Higher rates for perennial grasses.	0.5 - 2.0 lt	1&5 lt
	Focus Ultra	90-300 ml/15 lt water knapsack	Post emergent to grasses. Higher rates for perennial grasses.	1.2-4.0 lt	1&5 lt
Seed borne diseases and Damping Off	Vitavax Plus	Seed dressing.	250ml mix in 650ml water mix/100kg seed	0.25 lt	5 lt
	Thiram 80 WP	Seed dressing	Mix 100g in 500ml water/100kg seed	0.1 kg	0.5,1,20&25 kg
Cutworm	Decis 2.5 EC	12ml/15 lt water	Spray over rows at planting or germination	120 ml	5&250 ml
Aphids only	Dimethoate 40EC	60ml/15 lt water	F.C.S. in low volume water. Repeat as necessary	0.8 - 1.0 lt	0.5,1,5&20 lt
Cercospora and Leaf Spot	Benomyl 50 WP /Bavistin	15g/15 lt water	F.C.S. at first signs of infection and repeat @ 10-24 days intervals	300 - 500g application	0.5,1,&25 kg
	Folicur/Orius 250EC	18ml/15 lt water	F.C.S. at first signs of infection and repeat @ 10-24 days intervals	500ml/applic.	0.2,0.25,0.5&1 lt
Phoma & leaf rust	Chlorothalonil 50SC/ Bravo	25ml/15 lt water	F.C.S. at first sign fo leaf spotting & repeat as necessary @ 7 - 14 day intervals	2 lt	0.5,1,2,5&20lt
Stem Rot	Benomyl 50WP	7.5g/15 lt water mix	F.C.S. and repeat as necessary. Mix 50g/100 lt water		0.5,1,&25 kg
Trace elements	Librel Chelates eg. (BMX)	75 g/15 l water	H.V.S. foliar applied	1 kg	1&20 kg

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Production requirements and costs for 1 ha Groundnuts

Herbicides, Pesticides and Fungicides.

Problem	Product	Application rate.	Application / Comments	Product for 1 ha	Pack Size
Snout Beetle Weeds	Carbaryl 85WP	90g/15 lt water knapsack	Repeat as necessary in 100 lt water/ha. Mix 600g/100 lt water	600 g	1,5&25 kg
Heliothis Bollworm	Carbaryl 85WP	30g + 2 lt Molasses/15 lt water	Repeat as necessary. Mix 500g/150 lt water with 12.5 lt molasses	1 kg	1,5&25 kg
Hilda	Monocron 40WSC	NB: Not for use with knapsacks	Mix 155ml/100 lt water and <u>spot drench infested areas</u>	0.5 lt	0.5,1&5 lt

Approximately 17 x 15 knapsacks will cover 1 ha and apply 250 lt

Use **Bladbuff** wetter/buffer or **WINBooster** adjuvant where spray water is alkaline and/or is hard (high Calcium and Magnesium salts).

READ AND FULLY UNDERSTAND THE LABELS BEFORE USING PRODUCTS.

JUNE, 2015