

**WINDMILL (Pvt) Ltd**



Production requirements and costs for **1 Hectare of Maize**

( 1 Hectare = 2.47 Acres )

Date : .....

Seed requirements. Will vary depending on variety, planting date and seed size. As a guide 25 kg's per ha

Population: 40 000 to 47 000 plants per ha depending on variety, area in which grown and planting date.

Maize is prone to Zinc deficiency, particularly on sandy soils, so either use a zincated fertilizer or add zinc with the herbicides.

This exercise is only aimed at a 5 tonne crop. For higher yields more fertilizers will have to be applied.

Fertilizer requirements	Product	Rate/ha	Nitrogen	Phosphate	Potash	Sulphur	Comments	Rate/ha	Cost/tonne	Cost / ha	
Base Dressing	Compound D/ D Xtra	7:14:7 9S	350	25	49	25	31	All at planting time	0.35	\$600	\$210.00
Top dressing	Ammonium nitrate (34.5% N)	AN	300	104	0	0	0	Split. Half at knee height,	0.3	\$680	\$204.00
	<b>OR</b>		<b>Total</b>	<b>129</b>	<b>49</b>	<b>25</b>	<b>31</b>	half at shoulder height.			<b>\$414</b>
Base dressing	Double D	14:28:14 1.8S	200	28	56	28	4	As above	0.2	\$830	\$166
Top dressing	Ammonium nitrate (34.5% N)	AN	300	104	0	0	0	As above	0.3	\$680	\$204
			<b>Total</b>	<b>132</b>	<b>56</b>	<b>28</b>	<b>4</b>				<b>\$370</b>

**Pesticides, herbicides and fungicides**

Problem	Product	Application rate	Application / comments	Product for 1 ha	Pack Size	Cost per Pack	Total Cost
Weeds / Grasses and Broadleaf	Metolachlor 960 EC/Dual Magnum	1.3 - 1.9 lt/ha	Pre-emergent. Grasses, YNS & some Broadleaf weeds		1, 5, 20 lt	\$8/lt	
	Atranex/Atrazine	3.5 - 5.5 lt/ha	Pre or early post emergent. Broadleaf weeds		1, 5, 10 & 20 lt	\$6/lt	
	Acetochlor 90 EC	0.5-1.0 lt/ha	Pre-emergent. Annual grasses & some Broadleaf weeds		1, 5 & 10lt	\$6/lt	
	Basagran/Bentazone	3.0- 5.0 lt/ha	Post-emergent against Broadleaf weeds only.		1, 5 & 20lt	\$16/lt	
	Bateleur Gold 650 EC	0.7 - 1.7 lt/ha	Pre-emergent against Annual grasses & and B/L weeds.		1 & 5 lt	\$30/lt	
	Buctril 225/Bromoxynil 225 SC	1.5 - 2.0 lt/ha	Post-emergent against Broadleaf weeds only.		1, 5, 10, & 20 lt	\$8/lt	
	Halosulfuron	50 g/ha	Post-emergent. Grasses, B/L weeds & Yellow nutsedge.		0.05 & 0.25 kg	\$22/50 g	
	Stellar Star	0.7-1.0 lt/ha	Post-emergent. Annual grasses & some B/Lweeds.		0.08, 1, & 5 lt	\$63/lt	
Conservation Tillage	Roundup/Glyphosate	0.5 - 4.0 lt/ha	Apply to weeds before or just after planting	0.4-5.0 lt	1, 5, 10, 20 lt	\$6/lt	
Stalkborer	Carbaryl 85 WP	625 g/ha	Full cover spray and repeat as necessary.	625 g	1, 5 & 25 kg	\$12/kg	
Armyworm	Carbaryl 85 WP	37g/15 lt mixture knapsack	Apply as a high volume spray. Repeat if necessary.	625 g	1, 2 & 25 kg	\$12/kg	
Hoppers /	Dimethoate 40 EC	30 ml / knapsack	Apply as a high volume spray. Repeat every 7-10 days.	500 ml	0.5, 1, 5, & 20 lt	\$9/lt	
Streak Virus	Curaterr 10g	1 g / plant station	<b>OR</b> 200g / 100 m row. Applied with seed at planting	20 kg	25 kg	\$170/25kg	
Grey leaf spot	Propiconazole 25EC	45 ml/15lt water/knapsack	Spray when disease is seen on 3rd leaf below the cob.	750 ml	10 l	\$70/10lt	
	Bavistin WP/Benomyl 50 WP	45g/15 lt water / knapsack	Leaves above the cob should be kept disease free.	0.75 kg	0.5, 1, & 25 kg	\$13/kg	
Stored Grain	Shumba Super (Dust)	25g/50kg bag (shelled grain)	Mix well into grain		200 g	\$3	
	Actellic Super (Dust)	25g/50kg bag (shelled grain)	Mix well into grain		200 g	\$3	
Pests	Ingwe (Malathion 1% Dust)	25g/50kg bag (shelled grain)	Mix well into grain		250 g	\$0.40	

**NOTES:** If applying Curaterr against leaf hoppers this will also control stalkborer. Approximately 16 x 15 lt 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 LABELS CAREFULLY BEFORE USING PRODUCTS.**

**THIS IS NOT AN ORDER**

**JUNE, 2015**

