USING THE HERBICIDE GLYPHOSATE TO CONTROL WEEDS – THE BASICS

THIS LEAFLET IS JUST A GUIDE. ALWAYS MAKE SURE YOU GET PRACTICAL TRAINING BEFORE USING ANY HERBICIDES

IMPORTANT POINTS TO KNOW ABOUT GLYPHOSATE.
GLYPHOSATE IS A SYSTEMIC HERBICIDE MEANING THAT IT IS ABSORBED INTO THE PLANT. IT IS ALSO NON-SELECTIVE, MEANING THAT IT WILL KILL ANY PLANT IT COMES INTO CONTACT WITH INCLUDING ANY CROP THAT HAS ALREADY EMERGED. THEREFORE, GLYPHOSATE CAN ONLY BE USED TO KILL EARLY WEEDS IN FIELDS BEFORE THE CROP IS PLANTED OR AFTER THE CROP IS PLANTED BUT BEFORE IT HAS EMERGED. IT CAN ALSO BE USED TO KILL HEAVY INFESTATIONS OF KAPINGA THAT HAVE FORCED FARMERS TO ABANDON FIELDS ALTOGETHER.

OTHER IMPORTANT POINTS
GLYPHOSATE WILL NOT WORK IF DIRTY WATER IS USED TO SPRAY IT. ALSO, THERE SHOULD BE NO RAIN WITHIN 4 HOURS AFTER APPLYING IT OTHERWISE IT WILL BE WASHED OFF THE WEEDS AND WILL NOT WORK.

BENEFITS: 1 PERSON CAN SPRAY 1 HECTARE OF WEEDS IN 2 DAYS. TO HAND WEED THE SAME AREA 1 PERSON WOULD TAKE 15 TO 20 DAYS. USING HERBICIDES TO ERADICATE WEEDS IS ALSO CHEAPER THAN HIRING LABOUR

WHAT IS GLYPHOSATE?
Glyphosate comes with many different names. It can come in liquid or granular form. When purchasing it, make sure it is Glyphosate you are buying and not some other herbicide.

PURCHASE A GOOD SPRAYER
There are a number of good sprayers available from Agro-dealers including the JACTO model. When you purchase a sprayer get one with a 16 litre tank because the CFU's recommendations for the amount of Glyphosate to mix in 1 tank, is based on 16 litres.

USE CORRECT NOZZLE
The orange Fan-Jet is the correct nozzle for spraying Glyphosate. When you purchase a knapsack make sure you also purchase the blue and orange T-Jet Nozzles for spraying different herbicides. IF YOU USE DIFFERENT COLOURED NOZZLES, THE CFU'S RECOMMENDATIONS FOR AMOUNTS TO MIX IN 1 KNAPSACK TANK WILL BE WRONG, THE WEEDS MAY NOT BE KILLED AND YOUR MONEY COULD BE WASTED.

KEEP FILTERS CLEAN
Filter behind Nozzle
Filter behind Trigger
If your filters are dirty you will not be able to maintain the correct spraying pressure and the results will be poor.

ALIGN NOZZLE CORRECTLY
The slit in the nozzle must be at right angles to the direction of travel. Keep your nozzle clean don't drag it in the dirt when you are not spraying.

The blue Fan-Jet is the correct nozzle for spraying all other herbicides.

16 LITRES
16 LITRES
IMPORTANT POINT TO KNOW ABOUT LIQUID GLYPHOSATE

It usually comes in **2 strengths** called **360** and **480**.
If it is **360** the label should say 360 grams of Glyphosate **ACID EQUIVALENT OR 360 GLYCINE**.

If it is **480** the label should say 480 grams of Glyphosate **ACID EQUIVALENT OR GLYCINE**. If it says 450 acid treat it as 480.

Ignore what label says about the **SALT** equivalent

SAFETY FIRST


MEASURING

To apply the correct amounts to mix in 1 knapsack tank you need a measuring vessel calibrated in **MLS (millilitres)**. IF YOU CAN'T MEASURE ACCURATELY YOU CAN'T USE HERBICIDES.

GOOD RESULTS - USUALLY SOME LIGHT HAND WEEDING WILL ALWAYS BE NECESSARY LATER

Results like this only happen if you know exactly how to use Glyphosate. MAKE SURE YOU ARE TRAINED PROPERLY.

When the Maize gets mature farmers ignore late weeds which produce thousands of seeds that germinate in the next season. Glyphosate can be used to control late weeds so long as the lower leaves on the Maize up to waist height have matured and dried up.

LATE WEEDS ARE OFTEN IGNORED

Hold nozzle **50cm above basins or rip lines**. Pump evenly to maintain correct pressure. Walk at the correct speed.

Notice that the weeds are small. If weeds get large more Glyphosate will have to be used and more money spent.

REMEMBER THE CROP IN THIS FIELD HAS **NOT EMERGED**, IF IT HAD IT WOULD BE KILLED

TO APPLY CORRECTLY – GET TRAINED AND PRACTICE

MIXING RECOMMENDATIONS FOR EACH 16 LITRE TANK USING ORANGE FAN-JET NOZZLE

MRI 500 GLYPHOSATE GRANULES: 1 SACHET
GLYPHOSATE 360 LIQUID: 650 MLS
GLYPHOSATE 480 LIQUID: 450 MLS

If you have a knapsack sprayer with a **20 litre** tank only mix 16 litres of water so the concentration of Glyphosate you use is still correct.

MIXING

Add 8 litres of water through the knapsack sieve. Add correct amount of Glyphosate. Add water to make **16 litres of mix**. Close lid and swirl knapsack to mix chemical and water properly.
USING SELECTIVE HERBICIDES TO CONTROL WEEDS IN MAIZE – THE BASICS

THIS LEAFLET IS JUST A GUIDE. ALWAYS MAKE SURE YOU GET PRACTICAL TRAINING BEFORE USING ANY HERBICIDES

IMPORTANT POINTS ABOUT THE HERBICIDES FOR MAIZE RECOMMENDED IN THIS LEAFLET

These herbicides are **systemic** meaning they are absorbed into plants. They are also **selective**. This means they can be sprayed before or after the maize has emerged without damaging the crop so long as the guidelines in this leaflet are followed correctly.

These herbicides can also be sprayed before the weeds have emerged because they kill germinating weeds. They can also be sprayed on weeds that have recently emerged and will kill them so long as they are still small.

OTHER IMPORTANT POINTS

These herbicides will not work if *dirty water* is used to spray them.

**BENEFITS:** 1 person can spray 1 hectare of weeds in 2 days. To hand weed the same area 1 person would take 15 to 20 days. Using herbicides to eradicate weeds is also cheaper than hiring labour to weed with hoes.

**PURCHASE A GOOD SPRAYER**

There are a number of good sprayers available from Agro-dealers including the JACTO model. When you purchase a sprayer get one with a **16 litre tank** because the CFU’s recommendations for the amounts of maize herbicides to mix in 1 tank, is based on **16 litres**.

**USE CORRECT NOZZLE**

The orange Fan-Jet is the correct nozzle for spraying Glyphosate.

The blue Fan-Jet is the correct nozzle for spraying maize herbicides.

When you purchase a knapsack make sure you also purchase the blue and orange T-Jet Nozzles for spraying different herbicides. **IF YOU USE DIFFERENT COLOURED NOZZLES, THE CFU’S RECOMMENDATIONS FOR AMOUNTS TO MIX IN 1 KNAPSACK TANK WILL BE WRONG, THE WEEDS MAY NOT BE KILLED AND YOUR MONEY COULD BE WASTED.**

**KEEP FILTERS CLEAN**

If your filters are dirty you will not be able to maintain the correct spraying pressure and the results will be poor.

**ALIGN NOZZLE CORRECTLY**

The slit in the nozzle must be at **right angles** to the direction of travel. Keep your nozzle clean don’t drag it in the dirt when you are not spraying.

Maize herbicides come with **many different names** which can change from 1 year to the next. THE RECOMMENDED HERBICIDES ABOVE ALL CONTAIN 25% ATRAZINE AND 25% CYANAZINE.
IMPORTANT POINTS TO REMEMBER ABOUT THE HERBICIDES RECOMMENDED IN THIS LEAFLET

READ THE LABEL TO CHECK THE CHEMICAL CONTENT
IT SHOULD SAY 25% ATRAZINE AND 25% CYANAZINE
OR
ATRAZINE 250 GRAMS PER LITRE - CYANAZINE 250 GRAMS PER LITRE
IF IS SAYS SOMETHING ELSE GET ADVICE BEFORE PURCHASING

SAFETY FIRST

MEASURING
To apply the correct amounts to mix in 1 knapsack tank you need a measuring vessel calibrated in MLS (millilitres). IF YOU CAN'T MEASURE ACCURATELY YOU CAN'T USE HERBICIDES.

MIXING RECOMMENDATIONS FOR EACH 16 LITRE TANK USING BLUE FAN-JET NOZZLE WHEN SPRAYING MAIZE SELECTIVE HERBICIDE CONTAINING 25% ATRAZINE AND 25% CYANAZINE
NORMAL RED OR BROWN SOILS: 260mls
LIGHT SANDY SOILS: 230mls
If you have a knapsack sprayer with a 20 litre tank only mix 16 litres of water so the concentration of Maize herbicide you use is still correct.

MIXING
Add 8 litres of water through the knapsack sieve. Add correct amount of herbicide. Add water to make 16 litres of mix. Close lid and swirl knapsack to mix chemical and water properly.

TO SPRAY CORRECTLY – GET TRAINED AND PRACTICE

A GOOD SITUATION TO SPRAY
Hold nozzle 50cm above basins or rip lines. Pump evenly to maintain correct pressure. Walk at the correct speed.

In this photo small weeds have emerged already but the Maize has not.

The herbicides recommended in this leaflet can also be applied before the weeds have emerged because they will be killed when they germinate.

A GOOD RESULT
In this photo both the weeds and Maize have emerged. The weeds are only 5cms tall a good time to spray them.

If the weeds are allowed to reach 10cms the herbicide will be less effective. TIMING IS ALWAYS CRITICAL

Also the soils should be MOIST for good results. RAIN soon after spraying, is ideal.

Results like this only happen if you know exactly how to use the herbicides. MAKE SURE YOU ARE TRAINED PROPERLY.

Never expect herbicides to kill all weeds. Some light hand weeding will usually be necessary later in the season.