

Parmantig

Reg. No.: L 10398 Act /Wet No. 36 of/van 1947



A suspension concentrate pre- and post-emergence herbicide for the control of broadleaf weeds and certain grasses in maize, sweet corn and sugar cane as indicated.

ACTIVE INGREDIENT

Atrazine (triazine) 300 g/ℓ

Sulcotrione (Triketones) 125 g/ℓ

GROUP	5	HERBICIDE
GROUP	27	HERBICIDE



DANGER

HAZARD STATEMENTS:

- Causes serious eye irritation.
- May be harmful if inhaled.
- May cause cancer.
- Suspected of damaging fertility or the unborn child.
- Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

- Avoid release to the environment.
- Wear impervious rubber gloves and chemical safety goggles.
- If exposed or concerned: Get medical attention.
- If skin irritation or rash occurs: Get medical advice.
- If eye irritation persists: Get medical advice.

Registration holder: Green Island Investments (Pty) Ltd.

Co. Reg. No.: 2013/043963/07

P.O. Box 1822, Heidelberg 1438, South Africa

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24 HR EMERGENCY NUMBERS

Giffon Poison Information Centre: +27 82 446 8946

24 Hr Transport / Spill emergency no:

(Hazcall24) +27 86 044 4411 (Typhoon Plant Protection)

Distributed by: Typhoon Plant Protection (Pty) Ltd.

Co. Reg. No.: 1998/006156/07, C/O Farm Vlakfontein

Corner of the R23 Benoni Road & R550 Nigel Road

Brakpan District, Heidelberg 1438, Gauteng, South Africa

Tel: 078 737 9236

Net Volume:

ℓ

Expiry Date:

Batch No:

Date of Manufacture:

U.N. No. 3082

 **Typhoon**
PLANT PROTECTION



READ LABEL IN DETAIL BEFORE OPENING THE CONTAINER. FOR FULL PARTICULARS, SEE ENCLOSED LEAFLET.
KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

WARNINGS:

HAZARD STATEMENTS:

- May be harmful if swallowed.
- May be harmful in contact with skin.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- May be harmful if inhaled.
- May cause cancer.
- Suspected of damaging fertility or the unborn child.
- May cause damage to organs through prolonged or repeated exposure.
- Very toxic to aquatic life.
- Very toxic to aquatic life with long lasting effects.

Follow-on crops:

To avoid damage to follow-up crops, the following waiting periods should be adhered to:

Maize, Sweet corn and Sugar cane:	Nil
Grain Sorghum:	1 month
Sunflowers, Groundnuts, Soya beans, Potatoes, Dry beans, Forage Sorghum and Cotton:	3 months
PARMANTIG plus ACETOCHLOR 700 EC and KAPLYN 960 EC: Sunflower:	4 months
Wheat, Broccoli, Carrots, Lucerne, Cucurbits, Tobacco, Green beans, Peas (dosage less than 400 mL) and Green peppers:	4 months
Other Small grains and Peas:	18 months
All Other Crops (a testing planting is recommended)	24 months

NOTE: The waiting periods mentioned are only valid if the correct amount of PARMANTIG has been applied and normal or above normal rains occurred during the season, and normal cultivation practices carried out.

- Allow 70 days between last application and harvest of maize, sweet corn and sugar cane.
- Handle with care.
- May cause skin and eye irritation. May irritate the nose and throat.
- Store in a cool, dry place, away from food, feeds, seed, fertilizer and other agricultural chemicals.
- Keep out of reach of children, uninformed persons and animals.
- Toxic to fish and aquatic organisms.
- **Re-entry:** Do not enter treated area within 1 day after treatment unless wearing protective clothing.
- **In case of poisoning call a physician and make this label available to him/her.**

Aerial application:

Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue necessary warnings.

Do not spray over or allow drift to contaminate water or adjacent areas.

Although this remedy has been extensively tested under a large variety of conditions the registration holder does not warrant that it will be efficacious under all conditions. The action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, incompatibility with other substances not indicated on the label, the occurrence of resistance of weeds against the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

PRECAUTIONS:

PRECAUTIONARY STATEMENTS:

- **Do not** handle until all safety precautions have been read and understood.
- Wash hands and face thoroughly after handling.
- Avoid release into the environment.
- Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
- **IF ON SKIN:** Wash with plenty of water and non-abrasive soap.
- **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **If exposed or concerned:** Get medical attention.
- **If skin irritation or rash occurs:** Get medical advice.
- **If eye irritation persists:** Get medical advice.
- Collect spillage.
- Store locked up.
- Dispose of content/container.

PRECAUTIONS (Continued):

- **Do not** mix and load within at least 15 metre from bore holes, streams, rivers and dams.
- **Do not** apply within at least 15 metre from bore holes, streams and rivers.
- **Do not** apply within at least 60 metres from dams.
- Ensure that no back-siphoning to boreholes or dams takes place where atrazine is applied through the irrigation system.
- **TRIPLE RINSE** empty containers in the following manner. Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner.
- Destroy empty container by perforation and flattening and dispose of it in a safe way.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

Relevant Ingredients:

Substance name (IUPAC)	CAS – No.	Concentration % By weight
	EC-No.	
Atrazine	1912-24-9	30%
Sulcotrione	99105-77-8	12.5%
Polyaryl phenyl ether phosphate, amine salt / calcium salt	105362-40-1	3-5%
Ethylene Glycol	107-21-1	1-5%

SYMPTOMS OF HUMAN POISONING:

Acute toxicity to this herbicide is expected to be low and no adverse effects from exposure have been reported. It can be absorbed orally, dermally and by inhalation. Symptoms of poisoning include abdominal pain, diarrhoea and vomiting, eye irritation, irritation of mucous membranes and skin irritations.

FIRST AID TREATMENT:

Skin contact: If irritation occurs, remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. If irritation persists, obtain medical attention.

Eye contact: Immediately flush the contaminated eyes with gently flowing water for 20 minutes, holding the eyelid(s) open until no evidence of chemical remains. If irritation persists, obtain medical attention.

Inhalation: Remove source of contamination or move victim to fresh air. Keep patient under observation and obtain medical attention if irritation persists.

Ingestion: Have victim rinse mouth thoroughly with water. **Do not** induce vomiting. If necessary, obtain medical attention immediately.

NOTE TO PHYSICIAN:

No signs and symptoms of poisoning are known or expected in humans. No specific antidote is available. Treat symptomatically and supportively when required. When large amounts have been ingested, consider gastric lavage or administer activated charcoal.

RESISTANCE WARNING:

For resistance management **PARMANTIG** is **Group codes 5 & 27 herbicide**. Any weed population may contain individuals naturally resistant to **PARMANTIG** and other **Group codes 5 & 27 herbicides**. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **PARMANTIG** or any other **Group codes 5 & 27 herbicide**.

To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same herbicide group code. Alternate or tank mix with products from different herbicide group codes.
 - Integrate other control methods (chemical, cultural, biological) into weed control programmes.
- For specific information on resistance management contact the registration holder of this product.

USE RESTRICTIONS:**1. Factors affecting weed control:**

- The performance of **PARMANTIG** can be influenced by a number of factors which affect plant growth and therefore the herbicidal activity of the product. Factors such as soil pH, soil moisture, organic matter and weeds present may affect the residual action of the herbicide.
- Dry soil conditions after **pre-emergence** application may result in reduced control of germinating weeds. This can be corrected by surface blending or a **post-emergence** application of **PARMANTIG** at the correct growth stage of the weeds and after rain.
- Continual overcast and rainy conditions after a **post-emergence** application may reduce the efficacy of the product.

- In areas with a high soil organic matter content the period of weed control may be shorter than indicated on the table.
- **THE PERIOD (WEEKS) OF WEED CONTROL GIVEN IN THE TABLES IS ONLY AN INDICATION AND MAY BE AFFECTED BY CLIMATIC AND SOIL CONDITIONS AS WELL AS BY CULTIVATION PRACTICES. EIGHT WEEKS CONTROL IN MOST CASES MAY BE CONSIDERED FULL SEASON CONTROL.**
- When a **post-emergence** application of **PARMANTIG** is anticipated, **avoid**:
 - Stress conditions of weeds caused by drought, cold weather conditions, disease, insect damage, mineral element deficiencies and waterlogging.
 - Application to weeds beyond the optimum growth stage.
 - Application to weeds that are not actively growing.
- Should one or more of these conditions prevail at the time of an **PARMANTIG** application, herbicidal efficacy may be reduced.

DIRECTIONS FOR USE: Use only as indicated.

Unlike other residual herbicides the rate of **PARMANTIG** is not influenced by the clay content of the soil.

MAIZE and SWEET CORN:

(excluding the super sweet cultivars):

1. GENERAL:

- **DO NOT ADD ADDITIONAL ATRAZINE TO PARMANTIG AS THIS WILL HAVE A DETRIMENTAL EFFECT ON THE EFFICACY OF PARMANTIG.**
- Apply **PARMANTIG** as a **pre-emergence** application at planting or in a herbicide programme, or as an early post-emergence spray to the weeds and crop.
- When **PARMANTIG** is applied alone **OR PARMANTIG plus KAPLYN 960 EC and ACETOCHLOR 900 EC post-emergence**, the addition of **ASTRANT** is recommended. Refer to **ASTRANT** label
- The addition of **ASTRANT** may cause temporary yellowing of maize when applied before the 4-leaf stage.
- When **PARMANTIG OR PARMANTIG plus KAPLYN 960 EC and ACETOCHLOR 900 EC** are applied after cultivation when no weeds are present, the addition of **ASTRANT** is not necessary.
- When **PARMANTIG** is applied **post-emergence** for difficult to control weeds, eg, *Tribulus terrestris* and *Ipomoea purpurea*, the addition of **BROMOXYNIL 225** at a rate of 450 ml per hectare is strongly recommended. (Maize and sweet corn only).

2. CULTIVARS:

- **PARMANTIG** can be applied to all maize cultivars that are currently being planted.
- **PARMANTIG** can be applied to the following sweet corn cultivars:
Commander, Dynasty, Excellency, Jubilee RR, Melody, More, Napier, Rival, Shieldcrest and Sweety 82.

REMARKS:

- DURING A POST-EMERGENCE APPLICATION THE CROP MUST BE AT LEAST IN THE 4-LEAF STAGE.**
- IF VERY COLD AND WET WEATHER CONDITIONS PREVAIL DURING APPLICATION OR IMMEDIATELY THEREAFTER, CHLOROSIS MAY OCCUR BUT WILL NOT AFFECT THE YIELD.**
- TIME OF APPLICATION:**
 - PRE-EMERGENCE:**
 - **PARMANTIG** must be applied during or immediately after planting on a weed-free seedbed. A fine, even seedbed without excessive crop residue is necessary to ensure an even distribution of **PARMANTIG** on the soil surface.
 - **PARMANTIG** can be used as a **pre-emergence** herbicide in tank mixtures with **ACETOCHLOR 700 EC** (see Table 6) or in a programme with **EPTC PLUS** (see Table 2 for rates).
 - **PARMANTIG** can be used in a programme with **ACETOCHLOR 700 EC**. The **ACETOCHLOR 700 EC** is applied at planting followed by an **PARMANTIG** application. (see Table 7).

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TABLE 1: ACETOCHLOR 700 EC rates according to clay %:

These rates must be used where **ACETOCHLOR 700 EC** is applied on its own **pre-emergence**.

CLAY %:	ACETOCHLOR 700 EC DOSAGE RATE (ℓ/ha):
0 – 10 %	0,7 – 1,7 ℓ
11 – 15 %	0,9 – 2,1 ℓ
16 – 20 %	1,1 – 2,1 ℓ
21 – 30 %	1,4 – 2,4 ℓ
31 – 40 %	1,7 – 2,7 ℓ
41 – 55 %	2,7 ℓ

CONSULT THE **ACETOCHLOR 700 EC** LABEL FOR FULL DETAILS.

TABLE 2: EPTC PLUS rates according to clay %:Rates of **EPTC PLUS** to be applied pre plant incorporated (ppi).

CLAY %:	ACETOCHLOR 700 EC DOSAGE RATE (ℓ/ha):
MAIZE and SWEET CORN Soil type:	
0 – 10 %	2,0 ℓ
11 – 15 %	2,5 ℓ
16 – 20 %	3,0 ℓ
21 – 25 %	3,5 ℓ
26 – 30 %	4,0 ℓ

CONSULT THE **EPTC PLUS** LABEL FOR FULL DETAILS.**3.2. POST-EMERGENCE:**

- **PARMANTIG** can be applied **post-emergence** for the control of broadleaf weeds and certain grasses provided that these weeds are in the correct growth stage (see **Tables 3 and 4**) and no adverse conditions prevail such as drought stress, waterlogging, low temperature or continuously overcast weather at time of application. If the above mentioned option is not used it is recommended that **2,4-D AMINE** (480 g ai/ℓ) at 250 mℓ/ha be added to **PARMANTIG plus ASTRANT**. However, if **ASTRANT** is not added, the **2,4-D AMINE** rate must be increased to 500 mℓ/ha (**maize only**).
- When **KAPLYN 960 EC** is recommended to be tank mixed with **PARMANTIG plus ASTRANT**, it is recommended that 250 mℓ **2,4-D AMINE** be added and if **ASTRANT** is not used the rate of **2,4-D AMINE** should be increased to 500 mℓ/ha (**maize only**).

3.2.1. MAIZE and SWEET CORN:

- Add **ASTRANT** at spray mixture. The addition of **ASTRANT** may cause temporary yellowing of the maize when applied before the 4-leaf stage. The addition of **BROMOXNYL 225** at a rate of 450 mℓ/ha is strongly recommended for the control of *Ipomoea purpurea* (Common morning glory) & *Tribulus terrestris* (Dubbeltjie) (maize and sweet corn only).
- The use of **EPTC PLUS** pre plant is recommended where yellow and purple nutsedge and grasses including wild sorghum, are a problem.
- **ACETOCHLOR 700 EC** at planting is recommended if grasses are a problem followed up with **PARMANTIG** as an early **post-emergence** application to control the broadleaf weeds. Weeds which are beyond the optimum growth stage at time of application will not be controlled (see **Tables 5 and 7b**).

3.2.2 SUGAR CANE:

- **PARMANTIG** can be applied as a **post-emergence** herbicide in sugar cane (see **Table 4**).
The addition of **ASTRANT** to **PARMANTIG** is not recommended.

4. COMPATIBILITY:

- **PARMANTIG** is compatible with:
ASTRANT (Reg. nr.: L11608)
ACETOCHLOR 900 EC (Reg. nr.: L10102)
ACETOCHLOR 700 EC (Reg. nr.: L10098)
KAPLYN 960 EC (Reg. nr.: L9971)
- Do not add additional **ATRAZINE** to **PARMANTIG** as this will have a detrimental effect on the efficacy of **PARMANTIG**.

5. QUALITY OF DILUTION WATER:

- Use only water of a high quality and low soluble salt content.
- A generic Buffer as required.

6. MIXING INSTRUCTIONS:

- 6.1** Fill the spray tank to ¾ full with clean water.
- Add the required amount of generic buffer followed by the correct quantity **PARMANTIG**.
- Fill the spray tank with water to the required volume whilst agitating continuously.

6.2 In tank mixtures with ACETOCHLOR 700 EC OR ACETOCHLOR 900 EC, KAPLYN 960 EC, 2,4-D AMINE, BROMOXYNIL 225 and AKITO; DO NOT MIX CONCENTRATES.

- Fill the spray tank to ¾ full with clean water and add the required amount of **GENERIC BUFFER**.
- First mix each product that is going to be used with a little water in separate containers.
- First add the **2,4-D Amine SL, ACETOCHLOR 700 EC / ACETOCHLOR 900 EC / KAPLYN 960 EC / BROMOXYNIL 225** to the spray tank followed by **LAMBDA CYHALOTHRIN 50 EC** and add the **PARMANTIG** last.
- Fill the tank with water to the required volume and ensure thorough and continuous agitation during the mixing process.

NOTE:

- Ensure that thorough agitation of the spray mixture is maintained at all times.
- Under no circumstances should unused spray mixture be allowed to stand overnight.

7. APPLICATION:

PARMANTIG can be applied pre- or **post-emergence** of either crop or weeds. When applying **PARMANTIG post-emergence** the weeds must be at the correct growth stage (see Table 3 TO 10).

7.1 Ground application:

- a) For band and tramline applications, ensure that the correct quantity of **PARMANTIG** and spray volume is applied per unit area. Calibrations in such instances should be based on the recommended amount of **PARMANTIG** per hectare (10 000 m²) calculated according to the actual area to be sprayed.
- b) Apply by means of a tractor mounted boom sprayer which is correctly calibrated to deliver at least 200 to 300 litre spray mixture per hectare at a constant speed and pressure (200 to 300 kPa) to ensure even distribution. Avoid overlapping of spray swaths to prevent over-application.

7.2 Aerial application:

PARMANTIG and **ACETOCHLOR 700 EC** on their own or in tank mixture can be applied aerially pre- or early **post-emergence** provided the following requirements are met:

- Aerial application of **PARMANTIG** and **ACETOCHLOR 700 EC** on their own or in tank mixture may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:
- Mixing instructions must be followed.
- **When PARMANTIG is applied post-emergence at the 2- to 4-leaf stage of weeds, ASTRANT must be added.**
- The dosage rates as per the tables may be increased by 10%.
- **Volume:** A spray volume of 30 litres per hectare is recommended for **pre-emergence** and 30 to 35 litres per hectare for **post-emergence**. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- **Droplet coverage:** 20 to 30 droplets per cm² must be recovered at the target area, when applied **pre-emergence** and 35 to 45 droplets per cm² when applied **post-emergence**.
- **Droplet size:** A droplet spectrum with a VMD of 350 to 400 microns is recommended, when applied **pre-emergence** and 300 to 350 microns when applied **post-emergence**. Limit the production of fine droplets less than 150 microns (high drift and evaporation potential) to a minimum.
- **Flying height:** Maintain the height of the spray boom at 3 to 4 metres above the target. **Do not** spray when aircraft dives, is in a climb or when banking.
- Use suitable **atomising equipment** that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomisers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the **wingtip vortices**.
- The difference in **temperature** between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C.
- Stop spraying if the wind speed exceeds 15 km/h.
- Stop spraying under **turbulent**, unstable and dry conditions during the heat of the day.

- Spraying under temperature **inversion conditions** (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80% and above) may lead to the following:
 - reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage),
 - damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
- Ensure that the Aerial Spray Operator knows exactly which fields to spray.
- Obtain an assurance from the Aerial Spray Operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

WARNING:

2,4-D AMINE IS NOT RECOMMENDED FOR AERIAL APPLICATION WITH PARMANTIG OR PARMANTIG / ACETOCHLOR 900 EC or KAPLYN 960 EC.

TABLE 3: PARMANTIG plus ASTRANT spray mixture post-emergence:

 Applied **post-emergence** of the weeds.

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL	LEAF STAGE	
	BOTANICAL NAME	COMMON NAME			
MAIZE AND SWEET CORN ONLY:					
PARMANTIG at 800 ml/ha post-emergence plus ASTRANT	<i>Amaranthus deflexus</i>	Perennial pigweed	4	2 - 4	
	<i>Amaranthus hybridus</i>	Cape pigweed	4	2 - 4	
	<i>Chenopodium album</i>	White goosefoot	8	2 - 4	
	<i>Chloris virgata</i>	Feathertop Chloris	8	1 - 2	
	<i>Datura ferox</i>	Large thorn apple	8	2 - 4	
	<i>Hibiscus trionum</i>	Bladderweed	8	2 - 4	
	<i>Nicandra physalodes</i>	Apple of Peru	6	2 - 4	
	<i>Schkuhria pinnata</i>	Dwarf marigold	6	2 - 4	
	<i>Spermacoce senensis</i>	---	6	2 - 4	
	<i>Tagetes minuta</i>	Khakiweed	8	2 - 4	
PARMANTIG at 1,0 l/ha post-emergence plus ASTRANT	<i>Amaranthus deflexus</i>	Perennial pigweed	8	2 - 4	
	<i>Amaranthus hybridus</i>	Cape pigweed	8	2 - 4	
	<i>Chenopodium album</i>	White goosefoot	8	2 - 4	
	<i>Chloris virgata</i>	Feathertop Chloris	8	1 - 2	
	<i>Datura ferox</i>	Large thorn apple	8	2 - 4	
	<i>Eleusine indica</i>	Goose grass	6	1 - 3	
	<i>Hibiscus cannabinus</i>	Kenaf	8	2 - 4	
	<i>Hibiscus trionum</i>	Bladderweed	8	2 - 4	
	<i>Nicandra physalodes</i>	Apple of Peru	6	2 - 4	
	<i>Physalis angulata</i>	Wild gooseberry	8	2 - 4	
	<i>Schkuhria pinnata</i>	Dwarf marigold	6	2 - 4	
	<i>Spermacoce senensis</i>	---	6	2 - 4	
	<i>Tagetes minuta</i>	Khakiweed	8	2 - 4	
	PARMANTIG at 1,2 l/ha post-emergence plus ASTRANT	<i>Amaranthus deflexus</i>	Perennial pigweed	8	2 - 4
		<i>Amaranthus hybridus</i>	Cape pigweed	8	2 - 4
<i>Bidens bipinnata</i>		Spanish blackjack	8	2 - 4	
<i>Chenopodium album</i>		White goosefoot	8	2 - 4	
<i>Chloris virgata</i>		Feathertop Chloris	8	2 - 4	
<i>Bidens fmosa</i>		Cosmos	8	1 - 2	
<i>Datura ferox</i>		Large thorn apple	8	2 - 4	
<i>Digitaria sanguinalis</i>		Crab fingergrass	6	1 - 3	
<i>Eleusine indica</i>		Goose grass	6	1 - 3	
<i>Galinisoga parviflora</i>		Gallant Soldier	8	2 - 4	
<i>Hibiscus cannabinus</i>		Kenaf	8	2 - 4	
<i>Hibiscus trionum</i>		Bladderweed	8	2 - 4	
<i>Lepidium bonariense</i>		Pepper cress	8	2 - 4	
<i>Nicandra physalodes</i>		Apple of Peru	6	2 - 4	
<i>Physalis angulata</i>		Wild gooseberry	8	2 - 4	
<i>Portulaca oleracea</i>		Purslane	8	2 - 4	
<i>Schkuhria pinnata</i>		Dwarf marigold	6	2 - 4	
<i>Spermacoce senensis</i>		---	6	2 - 4	
<i>Tagetes minuta</i>		Khakiweed	8	2 - 4	
<i>Urochloa panicoides</i>		Herringbone grass	6	1 - 2	
MAIZE AND SWEET CORN ONLY:					
PARMANTIG at 1,4 l/ha post-emergence plus ASTRANT		<i>Acanthospermum hispidum</i>	Upright starbur	8	2 - 4
	<i>Amaranthus deflexus</i>	Perennial pigweed	8	2 - 4	
	<i>Amaranthus hybridus</i>	Cape pigweed	8	2 - 4	
	<i>Amaranthus spinosus</i>	Thorny pigweed	8	2 - 4	
	<i>Bidens bipinnata</i>	Spanish blackjack	8	2 - 4	
	<i>Chenopodium album</i>	White goosefoot	8	2 - 4	
	<i>Chloris virgata</i>	Feathertop Chloris	8	2 - 4	
	<i>Cleome monophylla</i>	Spindlepod	8	2 - 4	
	<i>Cleome rubella</i>	Pretty lady	8	2 - 4	
	<i>Commelina benghalensis</i>	Bengal wandering Jew	6	2 - 4	
	<i>Bidens formosa</i>	Cosmos	8	2 - 4	
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8	2 - 4	
	<i>Datura ferox</i>	Large thorn apple	8	2 - 4	
	<i>Digitaria sanguinali</i>	Crab fingergrass	8	1 - 2	

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL	LEAF STAGE
	BOTANICAL NAME	COMMON NAME		
	<i>Eleusine indica</i>	Goose grass	6	1 - 3
	<i>Emex australis</i>	Spiny emex	8	2 - 4
	<i>Euphorbia chamaesyce</i>	Hairy creeping milk weed	8	2 - 4
	<i>Galinsoga parviflora</i>	Gallant Soldier	6	1 - 3
	<i>Hibiscus cannabinus</i>	Kenaf	8	2 - 4
	<i>Hibiscus trionum</i>	Bladderweed	8	2 - 4
	<i>Ipomoea coscinosperry</i>	---	8	2 - 4
	<i>Lepidium bonariense</i>	Pepper cress	8	2 - 4
	<i>Nicandra physalodes</i>	Apple of Peru	8	2 - 4
	<i>Physalis angulata</i>	Wild gooseberry	6	2 - 4
	<i>Portulaca oleracea</i>	Purslane	8	2 - 4
	<i>Schkuhria pinnata</i>	Dwarf marigold	8	2 - 4
	<i>Solanum nigrum</i>	Deadly nightshade	6	2 - 4
	<i>Spermacoce senensis</i>	---	6	2 - 4
	<i>Tagetes minuta</i>	Khakiweed	8	2 - 4
	<i>Urochloa panicoides</i>	Herringbone grass	6	1 - 2
	<i>Xanthium spinosum</i>	Spiny cocklebur	8	2 - 4
	<i>Xanthium strumarium</i>	Cocklebur	8	2 - 4
MAIZE AND SWEET CORN ONLY:				
PARMANTIG at 1,6 l/ha post-emergence plus ASTRANT	<i>Acanthospermum hispidum</i>	Upright starbur	8	2 - 4
	<i>Amaranthus deflexus</i>	Perennial pigweed	8	2 - 4
	<i>Amaranthus hybridus</i>	Cape pigweed	8	2 - 4
	<i>Amaranthus spinosus</i>	Thorny pigweed	8	2 - 4
	<i>Amaranthus thunbergii</i>	Red pigweed	8	2 - 4
	<i>Argemone subfusiformis</i>	White-flowered Mexican poppy	8	1 - 3
	<i>Bidens pilosa</i>	Common Blackjack	8	2 - 4
	<i>Chenopodium album</i>	White goosefoot	8	2 - 4
	<i>Chenopodium carinatum</i>	Green goosefoot	8	2 - 4
	<i>Chloris virgata</i>	Feathertop Chloris	8	2 - 4
	<i>Bidens formosa</i>	Cosmos	8	1 - 2
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8	2 - 4
	<i>Cleome monophylla</i>	Spindlepod	8	2 - 4
	<i>Cleome rubella</i>	Pretty lady	8	2 - 4
	<i>Citrullus lanatus</i>	Bitter apple	8	1 - 6
	<i>Commelina benghalensis</i>	Bengal wandering Jew	8	1 - 3
	<i>Datura ferox</i>	Large thorn apple	8	2 - 4
	<i>Datura stramonium</i>	Thorn apple	8	2 - 4
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8	2 - 4
	<i>Eleusine indica</i>	Goose grass	8	1 - 3
	<i>Emex australis</i>	Spiny emex	8	2 - 4
	<i>Euphorbia chamaesyce</i>	Hairy creeping milk weed	8	2 - 4
	<i>Galinsoga parviflora</i>	Gallant Soldier	8	2 - 4
	<i>Gisekia pharmacoides</i>	Gisekia	8	2 - 4
	<i>Hibiscus cannabinus</i>	Kenaf	8	2 - 4
	<i>Hibiscus trionum</i>	Bladderweed	8	2 - 4
	<i>Ipomoea coscinosperry</i>	---	8	2 - 4
	<i>Nicandra physalodes</i>	Apple of Peru	8	2 - 4
	<i>Physalis angulata</i>	Wild gooseberry	8	2 - 4
	<i>Polygonum aviculare</i>	Prostrate knotweed	8	2 - 4
	<i>Portulaca oleracea</i>	Purslane	8	2 - 4
	<i>Richardia brasiliensis</i>	Tropical Richardia	8	2 - 4
	<i>Schkuhria pinnata</i>	Dwarf marigold	8	2 - 4
	<i>Sida cordifolia</i>	Heartleaf sida	8	2 - 4
	<i>Solanum nigrum</i>	Deadly nightshade	8	2 - 4
	<i>Spermacoce senensis</i>	---	8	1 - 2
	<i>Tagetes minuta</i>	Khakiweed	8	2 - 4
	<i>Urochloa panicoides</i>	Herringbone grass	8	1 - 3
	<i>Xanthium spinosum</i>	Spiny cocklebur	8	2 - 4
	<i>Xanthium strumarium</i>	Cocklebur	8	2 - 4
	Nutsedge suppressed: <i>Cyperus esculentus</i>	Yellow nutsedge	8	1 - 2

TABLE 4: PARMANTIG, applied post-emergence of weeds:
The addition of ASTRANT is not recommended.

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL	LEAF STAGE	
	BOTANICAL NAME	COMMON NAME			
SUGAR CANE:					
PARMANTIG at 1,6 to 3,6 ℓ/ha post-emergence	<i>Acanthospermum hispidum</i>	Upright starbur	8	2 - 4	
	<i>Amaranthus deflexus</i>	Perennial pigweed	8	2 - 4	
	<i>Amaranthus hybridus</i>	Cape pigweed	8	2 - 4	
	<i>Amaranthus spinosus</i>	Thorny pigweed	8	2 - 4	
	<i>Amaranthus thunbergii</i>	Red pigweed	8	2 - 4	
	<i>Argemone subfusiformis</i>	White-flowered Mexican poppy	8	1 - 3	
	<i>Bidens pilosa</i>	Common Blackjack	8	2 - 4	
	<i>Chenopodium album</i>	White goosefoot	8	2 - 4	
	<i>Chenopodium carinatum</i>	Green goosefoot	8	2 - 4	
	<i>Chloris virgata</i>	Feathertop Chloris	8	1 - 2	
	<i>Citrullus lanatus</i>	Bitter apple	8	1 - 6	
	<i>Cleome monophylla</i>	Spindlepod	8	2 - 4	
	<i>Cleome rubella</i>	Pretty lady	8	2 - 4	
	<i>Commelina benghalensis</i>	Bengal wandering Jew	8	1 - 3	
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8	2 - 4	
	<i>Datura ferox</i>	Large thorn apple	8	2 - 4	
	<i>Datura stramonium</i>	Thorn apple	8	2 - 4	
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8	2 - 4	
	<i>Eleusine indica</i>	Goose grass	8	1 - 3	
	<i>Emex australis</i>	Spiny emex	8	2 - 4	
	<i>Euphorbia chamaesyce</i>	Hairy creeping milk weed	8	2 - 4	
	<i>Galinsoga parviflora</i>	Gallant Soldier	8	2 - 4	
	<i>Gisekia pharmacoides</i>	Gisekia	8	2 - 4	
	<i>Hibiscus cannabinus</i>	Kenaf	8	2 - 4	
	<i>Hibiscus trionum</i>	Bladderweed	8	2 - 4	
	<i>Ipomoea coscinoperma</i>	---	8	2 - 4	
	<i>Lepidium bonariense</i>	Pepper cress	8	2 - 4	
	<i>Nicandra physalodes</i>	Apple of Peru	8	2 - 4	
	<i>Pysalis angulata</i>	Wild gooseberry	8	2 - 4	
	<i>Polygonum aviculare</i>	Prostrate knotweed	8	2 - 4	
	<i>Portulaca oleracea</i>	Purslane	8	2 - 4	
	<i>Richardia brasiliensis</i>	Tropical Richardia	8	2 - 4	
	<i>Schkuhria pinnata</i>	Dwarf marigold	8	2 - 4	
	<i>Sida cordifolia</i>	Heartleaf sida	8	2 - 4	
	<i>Solanum nigrum</i>	Deadly nightshade	8	2 - 4	
	<i>Spermaceoce senensis</i>	---	8	1 - 2	
	<i>Tagetes minuta</i>	Khakiweed	8	2 - 4	
	<i>Urochloa panicoides</i>	Herringbone grass	8	2 - 4	
	<i>Xanthium spinosum</i>	Spiny cocklebur	8	2 - 4	
	<i>Xanthium strumarium</i>	Cocklebur	8	2 - 4	
		Nutsedge suppressed:			1 - 2
		<i>Cyperus esculentus</i>	Yellow nutsedge	---	
SUGAR CANE:					
PARMANTIG at 3,6 ℓ/ha post-emergence	All the weeds above plus the following:				
	<i>Ageratum conyzoides</i>	Invading Ageratum	8	2 - 4	
	<i>Apium leptophyllum</i>	Wild celery	8	2 - 4	
	<i>Bidens bipinnata</i>	Spanish blackjack	8	2 - 4	
	<i>Brachiaria eruciformis</i>	Sweet signal-grass	8	1 - 2	
	<i>Bidens formosa</i>	Cosmos	8	2 - 4	
	<i>Convolvulus arvensis</i>	Field bindweed	8	1 - 2	
	<i>Euphorbia geniculata</i>	Painted milkweed	8	2 - 4	
	<i>Euphorbia hirta</i>	Red milkweed	8	2 - 4	
	<i>Flaveria bidentis</i>	Smelter's bush	8	2 - 4	
	<i>Ipomoea purpurea</i>	Common morning glory	8	2 - 4	
	<i>Sonchus oleraceus</i>	Sowthistle	8	2 - 4	

TABLE 5: ACETOCHLOR 700 EC (Refer Table 1) (applied pre-emergence of maize, sweetcorn and weeds)
followed by PARMANTIG plus ASTRANT spray mixture:
Applied early **post-emergence** of weeds (1 to 4 leaf stage of weeds).

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
ACETOCHLOR 700 EC (Table 1) pre-emergence followed by PARMANTIG at 800 ml/ha post-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Nicandra physalodes</i>	Apple of Peru	6
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Spermacoce senensis</i>	Spike leaf	6
	<i>Tagetes minuta</i>	Khakiweed	8
ACETOCHLOR 700 EC (Table 1) pre-emergence followed by PARMANTIG at 1,2 l/ha post-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Bidens bipinnata</i>	Spanish blackjack	8
	<i>Bracharia eruciformis</i>	Sweet signal-grass	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chenopodium carinatum</i>	Green goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Citrullus lanatus</i>	Bitter apple	8
	<i>Bidens formosa</i>	Comos	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Galinsoga parviflora</i>	Gallant Soldier	8
	<i>Hibiscus cannabinus</i>	Kenaf	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium bonariense</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	8
	<i>Panicum maximum</i>	Common buffalo grass	8
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Physalis angulata</i>	Wild gooseberry	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Setaria pallide-fusca</i>	Red bristle grass	8
	<i>Spermacoce senensis</i>	Spike leaf	6
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Urochloa panicoides</i>	Herringbone grass	6
ACETOCHLOR 700 EC (Table 1) pre-emergence followed by PARMANTIG at 1,4 l/ha post-emergence	<i>Acanthospermum hispidum</i>	Upright starbur	8
	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Bidens bipinnata</i>	Spanish blackjack	8
	<i>Bracharia eruciformis</i>	Sweet signal-grass	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chenopodium carinatum</i>	Green goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Cleome rubella</i>	Pretty lady	8
	<i>Citrullus lanatus</i>	Bitter apple	8
	<i>Conyza sumatrensis</i>	Fleabane	8
	<i>Commelina benghalensis</i>	Benghal wandering Jew	8
	<i>Bidens formosa</i>	Cosmos	8
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8
	<i>Cucumis myriocarpus</i>	Striped wild cucumber	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Datura stramonium</i>	Thorn apple	8

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Emex australis</i>	Spiny emex	8
	<i>Euphorbia chamaesyce</i>	Hairy creeping milk weed	8
	<i>Galinsoga parviflora</i>	Gallant Soldier	8
	<i>Hibiscus cannabinus</i>	Kenaf	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Ipomoea coscinosperma</i>	---	8
	<i>Lepidium bonariense</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	8
	<i>Panicum maximum</i>	Common buffalo grass	8
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Physalis angulata</i>	Wild gooseberry	6
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Setaria pallide-fusca</i>	Red bristle grass	8
	<i>Solanum nigrum</i>	Deadly nightshade	6
	<i>Spermocoe senensis</i>	Spike leaf	6
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tribulus terrestris</i>	Dubbeltjie	8
	<i>Urochloa panicoides</i>	Herringbone grass	8
	<i>Xanthium spinosum</i>	Spiny cocklebur	8
	<i>Xanthium strumarium</i>	Cocklebur	8
ACETOCHLOR 700 EC (Table 1) pre-emergence followed by PARMANTIG at 1,6 l/ha post-emergence	<i>Acanthospermum hispidum</i>	Upright starbur	8
	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Amaranthus thunbergii</i>	Red pigweed	8
	<i>Argemone subfusiformis</i>	White-flowered Mexican poppy	8
	<i>Bidens pilosa</i>	Common Blackjack	8
	<i>Brachiaria eruciformis</i>	Sweet signal-grass	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chenopodium carinatum</i>	Green goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Cleome rubella</i>	Pretty lady	8
	<i>Citrullus lanatus</i>	Bitter apple	8
	<i>Conyza sumatrensis</i>	Fleabane	8
	<i>Commelina benghalensis</i>	Benghal wandering Jew	8
	<i>Bidens formosa</i>	Cosmos	8
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8
	<i>Cucumis myriocarpus</i>	Striped wild cucumber	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Datura stramonium</i>	Thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Emex australis</i>	Spiny emex	8
	<i>Euphorbia chamaesyce</i>	Hairy creeping milk weed	8
	<i>Galinsoga parviflora</i>	Gallant Soldier	8
	<i>Gisekia pharmacoides</i>	Gisekia	8
	<i>Hibiscus cannabinus</i>	Kenaf	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Ipomoea coscinosperma</i>	---	8
	<i>Lepidium bonariense</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	8
	<i>Panicum maximum</i>	Common buffalo grass	8
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Physalis angulata</i>	Wild gooseberry	8
	<i>Polygonum aviculare</i>	Prostrate knotweed	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Richardia brasiliensis</i>	Tropical Richardia	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
	<i>Setaria pallide-fusca</i>	Red bristle grass	8
	<i>Sida cordifolia</i>	Heartleaf sida	8
	<i>Solanum nigrum</i>	Deadly nightshade	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tribulus terrestris</i>	Dubbeltjie	8
	<i>Urochloa panicoides</i>	Herringbone grass	8
	<i>Xanthium spinosum</i>	Spiny cocklebur	8
	<i>Xanthium strumarium</i>	Cocklebur	8
	Suppression of nutsedge: <i>Cyperus esculentus</i>	Yellow nutsedge	8

TABLE 6: ACETOCHLOR 700 EC plus PARMANTIG tank mix:

Applied **pre-emergence** of maize, sweetcorn and weeds.

NOTE: It is recommended that a higher rate of **ACETOCHLOR 700 EC** (up to 1,4 to 2,3 l/ha) is used in high grass pressure situations.

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
ACETOCHLOR 700 EC at 460 ml/ha plus PARMANTIG at 400 ml/ha	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Bidens formosa</i>	Cosmos	4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	4
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	4
	<i>Eleusine indica</i>	Goose grass	6
	<i>Gisekia pharmacoides</i>	Gisekia	6
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Portulaca oleracea</i>	Purslane	6
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tragus racemosus</i>	Large carrotseed grass	8
ACETOCHLOR 700 EC at 460 ml/ha plus PARMANTIG at 600 ml/ha	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Bidens formosa</i>	Cosmos	4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	4
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Eleusine indica</i>	Goose grass	6
	<i>Gisekia pharmacoides</i>	Gisekia	6
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Portulaca oleracea</i>	Purslane	6
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tragus racemosus</i>	Large carrotseed grass	8
ACETOCHLOR 700 EC at 460 ml/ha plus PARMANTIG at 800 ml/ha	<i>Acanthospermum hispidum</i>	Upright starbur	6
	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Bidens pilosa</i>	Common Blackjack	6
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
	<i>Chloris virgata</i>	Feathertop Chloris	6
	<i>Citrullus lanatus</i>	Bitter apple	6
	<i>Cleome monophylla</i>	Spindlepod	6
	<i>Bidens formosa</i>	Cosmos	8
	<i>Datura ferox</i>	Large thorn apple	6
	<i>Digitaria sanguinalis</i>	Crab fingergrass	6
	<i>Eleusine indica</i>	Goose grass	6
	<i>Gisekia pharmacoides</i>	Gisekia	8
	<i>Lepidium africanum</i>	Pepper cress	4
	<i>Nicandra physalodes</i>	Apple of Peru	8
	<i>Portulaca oleracea</i>	Purslane	4
	<i>Raphanus raphanistrum</i>	Wild radish	8
	<i>Richardia brasiliensis</i>	Tropical Richardia	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Sida cordifolia</i>	Heartleaf sida	8
	<i>Solanum nigrum</i>	Deadly nightshade	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tragus racemosus</i>	Large carrotseed grass	6
	<i>Urochloa panicoides</i>	Herringbone grass	6
ACETOCHLOR 700 EC at 460 ml/ha plus PARMANTIG at 1,2 l/ha	<i>Acanthospermum hispidum</i>	Upright starbur	8
	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Bidens pilosa</i>	Common Blackjack	6
	<i>Bracharia eruciformis</i>	Sweet signal-grass	8
	<i>Cassia spp</i>	----	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chenopodium carinatum</i>	Green goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Citrullus lanatus</i>	Bitter apple	6
	<i>Cleome monophylla</i>	Spindlepod	6
	<i>Bidens formosa</i>	Cosmos	6
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	4
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	6
	<i>Gisekia pharmacoides</i>	Gisekia	8
	<i>Hibiscus cannabinus</i>	Kenaf	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Raphanus raphanistrum</i>	Wild radish	4
	<i>Richardia brasiliensis</i>	Tropical Richardia	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Setaria pallide-fusca</i>	Red bristle grass	8
	<i>Sida cordifolia</i>	Heartleaf sida	8
	<i>Solanum nigrum</i>	Deadly nightshade	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tragus racemosus</i>	Large carrotseed grass	8
	<i>Tribulus terrestris</i>	Dubbeltjie	6
	<i>Urochloa panicoides</i>	Herringbone grass	6
ACETOCHLOR 700 EC at 570 ml/ha plus PARMANTIG at 400 ml/ha	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Bidens pilosa</i>	Common Blackjack	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Bidens formosa</i>	Cosmos	4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	4

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Gisekia pharmacoides</i>	Gisekia	6
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Polygonum aviculare</i>	Prostrate knotweed	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Solanum nigrum</i>	Deadly nightshade	8
	<i>Spermacece senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	6
	<i>Tragus racemosus</i>	Large carrotseed grass	8
ACETOCHLOR 700 EC at 570 ml/ha plus PARMANTIG at 600 ml/ha	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Bidens pilosa</i>	Common Blackjack	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Bidens formosa</i>	Cosmos	4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	4
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Gisekia pharmacoides</i>	Gisekia	6
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Polygonum aviculare</i>	Prostrate knotweed	8
	<i>Portulaca oleracea</i>	Purslane	6
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Solanum nigrum</i>	Deadly nightshade	8
	<i>Spermacece senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tragus racemosus</i>	Large carrotseed grass	6
	<i>Urochloa panicoides</i>	Herringbone grass	6
ACETOCHLOR 700 EC at 570 ml/ha plus PARMANTIG at 800 ml/ha	<i>Acanthospermum hispidum</i>	Upright starbur	8
	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Bidens pilosa</i>	Common Blackjack	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Citrullus lanatus</i>	Bitter apple	6
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Bidens formosa</i>	Cosmos	8
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Gisekia pharmacoides</i>	Gisekia	6
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Polygonum aviculare</i>	Prostrate knotweed	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Richardia brasiliensis</i>	Tropical Richardia	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Sida cordifolia</i>	Heartleaf sida	8
	<i>Solanum nigrum</i>	Deadly nightshade	8
	<i>Spermacece senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tragus racemosus</i>	Large carrotseed grass	8
	<i>Tribulus terrestris</i>	Dubbeltjie	6
	<i>Urochloa panicoides</i>	Herringbone grass	8

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
ACETOCHLOR 700 EC at 570 ml/ha plus PARMANTIG at 1,2 l/ha	<i>Acanthospermum hispidum</i>	Upright starbur	8
	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Bidens pilosa</i>	Common Blackjack	8
	<i>Brachiaria eruciformis</i>	Sweet signal-grass	8
	<i>Cassia spp</i>	----	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chenopodium carinatum</i>	Green goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Citrullus lanatus</i>	Bitter apple	6
	<i>Cleome monophylla</i>	Spindlepod	4
	<i>Bidens formosa</i>	Cosmos	8
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Gisekia pharmacoides</i>	Gisekia	8
	<i>Hibiscus cannabinus</i>	Kenaf	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Panicum maximum</i>	Common buffalo grass	8
	<i>Physalis angulata</i>	Wild gooseberry	8
	<i>Polygonum aviculare</i>	Prostrate knotweed	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Raphanus raphanistrum</i>	Wild radish	4
	<i>Richardia brasiliensis</i>	Tropical Richardia	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Setaria pallide-fusca</i>	Red bristle grass	8
	<i>Sida cordifolia</i>	Heartleaf sida	8
	<i>Solanum nigrum</i>	Deadly nightshade	8
	<i>Spermacoe senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tragus racemosus</i>	Large carrotseed grass	8
	<i>Tribulus terrestris</i>	Dubbeltjie	6
	<i>Urochloa panicoides</i>	Herringbone grass	8
ACETOCHLOR 700 EC at 850 ml/ha plus PARMANTIG at 400 ml/ha	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Bidens pilosa</i>	Common Blackjack	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	4
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Bidens formosa</i>	Cosmos	4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	4
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Polygonum aviculare</i>	Prostrate knotweed	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Solanum nigrum</i>	Deadly nightshade	8
	<i>Spermacoe senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
ACETOCHLOR 700 EC at 850 mL/ha plus PARMANTIG at 600 mL/ha	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Bidens pilosa</i>	Common Blackjack	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	4
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Bidens formosa</i>	Cosmos	4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	4
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Polygonum aviculare</i>	Prostrate knotweed	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Solanum nigrum</i>	Deadly nightshade	8
	<i>Spermacoe senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Urochloa panicoides</i>	Herringbone grass	8
ACETOCHLOR 700 EC at 850 mL/ha plus PARMANTIG at 800 mL/ha	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Bidens pilosa</i>	Common Blackjack	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	4
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Bidens formosa</i>	Cosmos	4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	4
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Polygonum aviculare</i>	Prostrate knotweed	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Solanum nigrum</i>	Deadly nightshade	8
	<i>Spermacoe senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Urochloa panicoides</i>	Herringbone grass	8
ACETOCHLOR 700 EC at 1,1 L/ha plus PARMANTIG at 800 mL/ha	<i>Acanthospermum hispidum</i>	Upright starbur	6
	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Bidens pilosa</i>	Common Blackjack	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chenopodium carinatum</i>	Green goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	4
	<i>Citrullus lanatus</i>	Bitter apple	6
	<i>Cleome monophylla</i>	Spindlepod	6
	<i>Bidens formosa</i>	Cosmos	8
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Richardia brasiliensis</i>	Tropical Richardia	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Sida cordifolia</i>	Hearleaf sida	8
	<i>Spermacoe senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Urochloa panicoides</i>	Herringbone grass	6

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
ACETOCHLOR 700 EC at 1,1 ℓ/ha plus PARMANTIG at 1,2 ℓ/ha	<i>Acanthospermum hispidum</i>	Upright starbur	8
	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Bidens pilosa</i>	Common Blackjack	8
	<i>Brachiaria eruciformis</i>	Sweet signal-grass	8
	<i>Cassia spp</i>	---	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chenopodium carinatum</i>	Green goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	6
	<i>Citrullus lanatus</i>	Bitter apple	8
	<i>Cleome monophylla</i>	Spindlepod	6
	<i>Bidens formosa</i>	Cosmos	8
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Gisekia pharmaceoides</i>	Gisekia	8
	<i>Hibiscus cannabinus</i>	Kenaf	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Panicum maximum</i>	Common buffalo grass	8
	<i>Physalis angulata</i>	Wild gooseberry	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Raphanus raphanistrum</i>	Wild radish	4
	<i>Richardia brasiliensis</i>	Tropical Richardia	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Setaria pallide-fusca</i>	Red bristle grass	8
	<i>Sida cordifolia</i>	Heartleaf sida	8
	<i>Spermacoe senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tribulus terrestris</i>	Dubbeltjie	4
	<i>Urochloa panicoides</i>	Herringbone grass	6

TABLE 7(a): ACETOCHLOR 700 EC (applied pre-emergence of maize, sweetcorn and weeds) followed by cultivation, followed by PARMANTIG:

Applied pre-emergence immediately after last cultivation.

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
ACETOCHLOR 700 EC at 460 ml/ha pre-emergence followed by PARMANTIG at 400 ml/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	4
	<i>Bidens formosa</i>	Cosmos	4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	4
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Gisekia pharmacoides</i>	Gisekia	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Spermocoe senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
ACETOCHLOR 700 EC at 460 ml/ha pre-emergence followed by PARMANTIG at 600 ml/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	4
	<i>Cleome monophylla</i>	Spindlepod	4
	<i>Bidens formosa</i>	Cosmos	4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Gisekia pharmacoides</i>	Gisekia	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Portulaca oleracea</i>	Purslane	4
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Spermocoe senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
ACETOCHLOR 700 EC at 460 ml/ha pre-emergence followed by PARMANTIG at 800 ml/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	4
	<i>Cleome monophylla</i>	Spindlepod	4
	<i>Bidens formosa</i>	Cosmos	4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	4
	<i>Eleusine indica</i>	Goose grass	8
	<i>Gisekia pharmacoides</i>	Gisekia	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Spermocoe senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
ACETOCHLOR 700 EC at 460 ml/ha pre-emergence followed by PARMANTIG at 1,0 l/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	4
	<i>Cleome monophylla</i>	Spindlepod	4
	<i>Bidens formosa</i>	Cosmos	8
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	6

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
	<i>Eleusine indica</i>	Goose grass	8
	<i>Gisekia pharmacoides</i>	Gisekia	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Raphanus raphanistrum</i>	Wild radish	4
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tribulus terrestris</i>	Dubbeltjie	6
ACETOCHLOR 700 EC at 460 mL/ha pre-emergence followed by PARMANTIG at 1,2 L/ha pre-emergence	<i>Acanthospermum hispidum</i>	Upright starbur	8
	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Bracharia eruciformis</i>	Sweet signal-grass	8
	<i>Cassia spp</i>	---	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chenopodium carinatum</i>	Green goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	6
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Bidens formosa</i>	Cosmos	8
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Gisekia pharmacoides</i>	Gisekia	8
	<i>Hibiscus cannabinus</i>	Kenaf	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Raphanus raphanistrum</i>	Wild radish	4
	<i>Richardia brasiliensis</i>	Tropical Richardia	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Setaria pallide-fusca</i>	Red bristle grass	8
	<i>Sida cordifolia</i>	Heartleaf sida	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tribulus terrestris</i>	Dubbeltjie	8
	<i>Urochloa panicoides</i>	Herringbone grass	8
ACETOCHLOR 700 EC at 570 mL/ha pre-emergence followed by PARMANTIG at 400 mL/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	4
	<i>Bidens formosa</i>	Cosmos	4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	4
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Gisekia pharmacoides</i>	Gisekia	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
ACETOCHLOR 700 EC at 570 mL/ha pre-emergence followed by PARMANTIG at 600 mL/ha	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	4
	<i>Cleome monophylla</i>	Spindlepod	4
	<i>Bidens formosa</i>	Cosmos	4

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
	<i>Crotalaria sphaerocarpa</i> <i>Datura ferox</i> <i>Eleusine indica</i> <i>Gisekia pharmacoides</i> <i>Hibiscus trionum</i> <i>Lepidium africanum</i> <i>Nicandra physalodes</i> <i>Portulaca oleracea</i> <i>Schkuhria pinnata</i> <i>Spermacoce senensis</i> <i>Tagetes minuta</i>	Mealie Crotalaria Large thorn apple Goose grass Gisekia Bladderweed Pepper cress Apple of Peru Purslane Dwarf marigold Spike leaf Khakiweed	8 8 8 8 8 8 4 8 8 8 8
ACETOCHLOR 700 EC at 570 ml/ha pre-emergence followed by PARMANTIG at 800 ml/ha pre-emergence	<i>Amaranthus deflexus</i> <i>Amaranthus hybridus</i> <i>Amaranthus spinosus</i> <i>Chenopodium album</i> <i>Chloris virgata</i> <i>Cleome monophylla</i> <i>Bidens formosa</i> <i>Crotalaria sphaerocarpa</i> <i>Datura ferox</i> <i>Digitaria sanguinalis</i> <i>Eleusine indica</i> <i>Emex australis</i> <i>Gisekia pharmacoides</i> <i>Hibiscus trionum</i> <i>Lepidium africanum</i> <i>Lolium multiflorum</i> <i>Nicandra physalodes</i> <i>Portulaca oleracea</i> <i>Schkuhria pinnata</i> <i>Spermacoce senensis</i> <i>Tagetes minuta</i>	Perennial pigweed Cape pigweed Thorny pigweed White goosefoot Feathertop Chloris Spindlepod Cosmos Mealie Crotalaria Large thorn apple Crab fingergrass Goose grass Spiny emex Gisekia Bladderweed Pepper cress Italian ryegrass Apple of Peru Purslane Dwarf marigold Spike leaf Khakiweed	8 8 8 8 4 4 4 8 8 4 8 4 8 8 4 4 8 8 8 8 8
ACETOCHLOR 700 EC at 570 ml/ha pre-emergence followed by PARMANTIG at 1,0 l/ha pre-emergence	<i>Amaranthus deflexus</i> <i>Amaranthus hybridus</i> <i>Amaranthus spinosus</i> <i>Bidens pilosa</i> <i>Chenopodium album</i> <i>Chloris virgata</i> <i>Cleome monophylla</i> <i>Bidens formosa</i> <i>Crotalaria sphaerocarpa</i> <i>Datura ferox</i> <i>Digitaria sanguinalis</i> <i>Eleusine indica</i> <i>Emex australis</i> <i>Gisekia pharmacoides</i> <i>Hibiscus trionum</i> <i>Lepidium africanum</i> <i>Lolium multiflorum</i> <i>Medicago sativa</i> <i>Nicandra physalodes</i> <i>Portulaca oleracea</i> <i>Raphanus raphanistrum</i> <i>Schkuhria pinnata</i> <i>Solanum nigrum</i> <i>Spermacoce senensis</i> <i>Tagetes minuta</i> <i>Tribulus terrestris</i>	Perennial pigweed Cape pigweed Thorny pigweed Common Blackjack White goosefoot Feathertop Chloris Spindlepod Cosmos Mealie Crotalaria Large thorn apple Crab fingergrass Goose grass Spiny emex Gisekia Bladderweed Pepper cress Italian ryegrass Volunteer lucerne Apple of Peru Purslane Wild radish Dwarf marigold Deadly nightshade Spike leaf Khakiweed Dubbeltjie	8 8 8 6 8 4 8 8 8 8 8 4 8 8 8 4 6 4 4 4 8 6 8 8 8
ACETOCHLOR 700 EC at 570 ml/ha pre-emergence followed by PARMANTIG at 1,2 l/ha pre-emergence	<i>Acanthospermum hispidum</i> <i>Amaranthus deflexus</i> <i>Amaranthus hybridus</i> <i>Amaranthus spinosus</i> <i>Bidens pilosa</i> <i>Brachiaria eruciformis</i> <i>Cassia spp</i> <i>Chenopodium album</i> <i>Chenopodium carinatum</i>	Upright starbur Perennial pigweed Cape pigweed Thorny pigweed Common Blackjack Sweet signal-grass --- White goosefoot Green goosefoot	8 8 8 8 6 8 8 8 8

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
	<i>Chloris virgata</i>	Feathertop Chloris	6
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Bidens formosa</i>	Cosmos	8
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Emex australis</i>	Spiny emex	4
	<i>Gisekia pharmacioides</i>	Gisekia	8
	<i>Hibiscus cannabinus</i>	Kenaf	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Lolium multiflorum</i>	Italian ryegrass	4
	<i>Medicago sativa</i>	Volunteer lucerne	6
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Physalis angulata</i>	Wild gooseberry	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Raphanus raphanistrum</i>	Wild radish	4
	<i>Richardia brasiliensis</i>	Tropical Richardia	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Setaria pallide-fusca</i>	Red bristle grass	8
	<i>Sida cordifolia</i>	Heartleaf sida	8
	<i>Solanum nigrum</i>	Deadly nightshade	6
	<i>Spermacoe senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tribulus terrestris</i>	Dubbeltjie	8
	<i>Urochloa panicoides</i>	Herringbone grass	8
ACETOCHLOR 700 EC at 900 ml/ha pre-emergence followed by PARMANTIG at 800 ml/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	4
	<i>Cleome monophylla</i>	Spindlepod	4
	<i>Bidens formosa</i>	Cosmos	4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Emex australis</i>	Spiny emex	4
	<i>Gisekia pharmacioides</i>	Gisekia	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Lolium multiflorum</i>	Italian ryegrass	4
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Spermacoe senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
ACETOCHLOR 700 EC at 900 ml/ha pre-emergence followed by PARMANTIG at 1,0 l/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Bidens pilosa</i>	Common Blackjack	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	4
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Bidens formosa</i>	Cosmos	8

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Emex australis</i>	Spiny emex	4
	<i>Gisekia pharmacoides</i>	Gisekia	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Lolium multiflorum</i>	Italian ryegrass	4
	<i>Medicago sativa</i>	Volunteer lucerne	6
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Raphanus raphanistrum</i>	Wild radish	4
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Solanum nigrum</i>	Deadly nightshade	6
	<i>Spermacoe senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tribulus terrestris</i>	Dubbeltjie	8
ACETOCHLOR 700 EC at 1,1 ℓ/ha pre-emergence followed by PARMANTIG at 1,0 ℓ/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Bidens bipinnata</i>	Spanish blackjack	8
	<i>Bidens pilosa</i>	Common Blackjack	6
	<i>Brachiaria eruciformis</i>	Sweet signal-grass	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	4
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Convolvulus arvensis</i>	Field bindweed	8
	<i>Bidens formosa</i>	Cosmos	8
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	4
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Emex australis</i>	Spiny emex	4
	<i>Galinsoga parviflora</i>	Gallant Soldier	8
	<i>Gisekia pharmacoides</i>	Gisekia	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Lolium multiflorum</i>	Italian ryegrass	4
	<i>Medicago sativa</i>	Volunteer lucerne	6
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Raphanus raphanistrum</i>	Wild radish	4
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Setaria pallide-fusca</i>	Red bristle grass	8
	<i>Solanum nigrum</i>	Deadly nightshade	6
	<i>Spermacoe senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tribulus terrestris</i>	Dubbeltjie	8
ACETOCHLOR 700 EC at 1,1 ℓ/ha pre-emergence followed by PARMANTIG at 1,2 ℓ/ha pre-emergence	<i>Acanthospermum hispidum</i>	Upright starbur	8
	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Bidens bipinnata</i>	Spanish blackjack	8
	<i>Bidens pilosa</i>	Common Blackjack	8
	<i>Brachiaria eruciformis</i>	Sweet signal-grass	8
	<i>Cassia spp</i>	---	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chenopodium carinatum</i>	Green goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	6
	<i>Cleome monophylla</i>	Spindlepod	4
	<i>Cleome rubella</i>	Pretty lady	8

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
	<i>Convolvulus arvensis</i>	Field bindweed	8
	<i>Conyza floribunda</i>	Tall fleabane	8
	<i>Bidens formosa</i>	Cosmos	8
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8
	<i>Cucumis myriocarpus</i>	Striped wild cucumber	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Datura stramonium</i>	Thorn apple	6
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Emex australis</i>	Spiny emex	8
	<i>Galinsoga parviflora</i>	Gallant Soldier	8
	<i>Gisekia pharmacoides</i>	Gisekia	8
	<i>Hibiscus cannabinus</i>	Kenaf	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Lolium multiflorum</i>	Italian ryegrass	4
	<i>Medicago sativa</i>	Volunteer lucerne	6
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Physalis angulata</i>	Wild gooseberry	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Raphanus raphanistrum</i>	Wild radish	4
	<i>Richardia brasiliensis</i>	Tropical Richardia	8
	<i>Setaria pallide-fusca</i>	Red bristle grass	8
	<i>Sida cordifolia</i>	Heartleaf sida	8
	<i>Solanum nigrum</i>	Deadly nightshade	6
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tribulus terrestris</i>	Dubbeltjie	8
	<i>Urochloa panicoides</i>	Herringbone grass	8
ACETOCHLOR 700 EC at 1,1 ℓ/ha pre-emergence followed by PARMANTIG at 1,4 ℓ/ha pre-emergence	<i>Acanthospermum hispidum</i>	Upright starbur	8
	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Bidens bipinnata</i>	Spanish blackjack	8
	<i>Bidens pilosa</i>	Common Blackjack	6
	<i>Brachiaria eruciformis</i>	Sweet signal-grass	8
	<i>Cassia spp</i>	---	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chenopodium carinatum</i>	Green goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	6
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Cleome rubella</i>	Pretty lady	8
	<i>Convolvulus arvensis</i>	Field bindweed	8
	<i>Conyza floribunda</i>	Tall fleabane	8
	<i>Bidens formosa</i>	Cosmos	8
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8
	<i>Cucumis myriocarpus</i>	Striped wild cucumber	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Datura stramonium</i>	Thorn apple	6
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Emex australis</i>	Spiny emex	8
	<i>Galinsoga parviflora</i>	Gallant Soldier	8
	<i>Gisekia pharmacoides</i>	Gisekia	8
	<i>Hibiscus cannabinus</i>	Kenaf	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Lolium multiflorum</i>	Italian ryegrass	4
	<i>Medicago sativa</i>	Volunteer lucerne	6
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Panicum schinzii</i>	Sweet buffalo grass	8

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
	<i>Physalis angulata</i>	Wild gooseberry	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Raphanus raphanistrum</i>	Wild radish	4
	<i>Richardia brasiliensis</i>	Tropical Richardia	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Setaria pallide-fusca</i>	Red bristle grass	8
	<i>Sida cordifolia</i>	Heartleaf sida	8
	<i>Solanum nigrum</i>	Deadly nightshade	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tribulus terrestris</i>	Dubbeltjie	8
	<i>Triticum aestivum</i>	Volunteer wheat	8
	<i>Urochloa panicoides</i>	Herringbone grass	8

TABLE 7(b): ACETOCHLOR 700 EC (applied **pre-emergence** of maize, sweetcorn and weeds) **followed by PARMANTIG plus ASTRANT** spray mixture: Applied **post-emergence** of weeds, no cultivation. (Grasses at 1 to 2 leaf stage and broadleaf weeds at 2 to 4 leaf stage.)

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
ACETOCHLOR 700 EC at 570 ml/ha pre-emergence followed by PARMANTIG at 600 ml/ha post-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	4
	<i>Amaranthus hybridus</i>	Cape pigweed	6
	<i>Chloris virgata</i>	Feathertop Chloris	6
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	6
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Nicandra physalodes</i>	Apple of Peru	6
	<i>Schkuhria pinnata</i>	Dwarf marigold	6
	<i>Spermocoe senensis</i>	Spike leaf	6
	<i>Tagetes minuta</i>	Khakiweed	8
ACETOCHLOR 700 EC at 1,7 ℓ/ha pre-emergence followed by PARMANTIG at 1,2 ℓ/ha post-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Bidens bipinnata</i>	Spanish blackjack	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Bidens formosa</i>	Cosmos	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	6
	<i>Eleusine indica</i>	Goose grass	6
	<i>Galinsoga parviflora</i>	Gallant Soldier	8
	<i>Hibiscus cannabinus</i>	Kenaf	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium bonariense</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	6
	<i>Physalis angulata</i>	Wild gooseberry	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	6
	<i>Spermocoe senensis</i>	Spike leaf	6
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Triumfetta speculor</i>	---	6
	<i>Urochloa panicoides</i>	Herringbone grass	6
ACETOCHLOR 700 EC at 2,7 ℓ/ha pre-emergence followed by PARMANTIG at 1,2 ℓ/ha post-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Bidens bipinnata</i>	Spanish blackjack	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Bidens formosa</i>	Cosmos	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	6
	<i>Eleusine indica</i>	Goose grass	6
	<i>Galinsoga parviflora</i>	Gallant Soldier	8
	<i>Hibiscus cannabinus</i>	Kenaf	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium bonariense</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	6
	<i>Panicum maximum</i>	Common buffalo grass	6
	<i>Physalis angulata</i>	Wild gooseberry	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	6
	<i>Spermocoe senensis</i>	Spike leaf	6
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Triumfetta speculor</i>	---	6
	<i>Urochloa panicoides</i>	Herringbone grass	6

TABLE 8: ACETOCHLOR 700 EC plus PARMANTIG tank mix (applied **pre-emergence of maize, sweetcorn and weeds) followed by cultivation followed by PARMANTIG: Applied **pre-emergence** of weeds immediately after last cultivation.**

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
ACETOCHLOR 700 EC at 460 mL/ha plus PARMANTIG at 400 mL/ha pre-emergence followed by PARMANTIG at 800 mL/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	6
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Commelina benghalensis</i>	Benghal wandering Jew	6
	<i>Bidens formosa</i>	Cosmos	6
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	6
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	6
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Urochloa mosambicensis</i>	Bushveld herringbone grass	8
	<i>Xanthium strumarium</i>	Cocklebur	8
ACETOCHLOR 700 EC at 460 mL/ha plus PARMANTIG at 600 mL/ha pre-emergence followed by PARMANTIG at 800 mL/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	6
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Commelina benghalensis</i>	Benghal wandering Jew	8
	<i>Bidens formosa</i>	Cosmos	8
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	6
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	6
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Urochloa mosambicensis</i>	Bushveld herringbone grass	8
	<i>Xanthium strumarium</i>	Cocklebur	8
ACETOCHLOR 700 EC at 570 mL/ha plus PARMANTIG at 400 mL/ha pre-emergence followed by PARMANTIG at 800 mL/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	6
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Commelina benghalensis</i>	Benghal wandering Jew	6
	<i>Bidens formosa</i>	Cosmos	6
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	6
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	6
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	6
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Urochloa mosambicensis</i>	Bushveld herringbone grass	8
	<i>Xanthium strumarium</i>	Cocklebur	8

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
ACETOCHLOR 700 EC at 570 mL/ha plus PARMANTIG at 600 mL/ha pre-emergence followed by PARMANTIG at 800 mL/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	6
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Commelina benghalensis</i>	Benghal wandering Jew	8
	<i>Bidens formosa</i>	Cosmos	8
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	6
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	6
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	6
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Urochloa mosambicensis</i>	Bushveld herringbone grass	8
	<i>Xanthium strumarium</i>	Cocklebur	8
ACETOCHLOR 700 EC at 570 mL/ha plus PARMANTIG at 800 mL/ha pre-emergence followed by PARMANTIG at 800 mL/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Brachiaria eruciformis</i>	Sweet signal-grass	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	6
	<i>Cleome monophylla</i>	Spindlepod	6
	<i>Commelina benghalensis</i>	Benghal wandering Jew	8
	<i>Bidens formosa</i>	Cosmos	8
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Urochloa mosambicensis</i>	Bushveld herringbone grass	8
	<i>Xanthium strumarium</i>	Cocklebur	8
ACETOCHLOR 700 EC at 850 mL/ha plus PARMANTIG at 400 mL/ha pre-emergence followed by PARMANTIG at 800 mL/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Brachiaria eruciformis</i>	Sweet signal-grass	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	6
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Commelina benghalensis</i>	Benghal wandering Jew	8
	<i>Bidens formosa</i>	Cosmos	8
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Urochloa mosambicensis</i>	Bushveld herringbone grass	8
	<i>Xanthium strumarium</i>	Cocklebur	8

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
ACETOCHLOR 700 EC at 850 mL/ha plus PARMANTIG at 600 mL/ha pre-emergence followed by PARMANTIG at 800 mL/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Brachiaria eruciformis</i>	Sweet signal-grass	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	6
	<i>Cleome monophylla</i>	Spindlepod	8
	<i>Commelina benghalensis</i>	Benghal wandering Jew	8
	<i>Bidens formosa</i>	Cosmos	8
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Urochloa mosambicensis</i>	Bushveld herringbone grass	8
	<i>Xanthium strumarium</i>	Cocklebur	8

TABLE 9: ACETOCHLOR 700 EC plus PARMANTIG tank mix (applied **pre-emergence** of maize, sweetcorn and weeds) followed by **PARMANTIG plus ASTRANT** spray mixture:

Applied **post-emergence** (2 to 4 leaf stage of weeds). No cultivation.

NOTE: Where high pressure of grasses occur, the **ACETOCHLOR 700 EC** rate must be increased to 850 mL/ha.

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
ACETOCHLOR 700 EC at 460 mL/ha plus PARMANTIG at 400 mL/ha pre-emergence followed by PARMANTIG at 800 mL/ha post-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	4
	<i>Amaranthus hybridus</i>	Cape pigweed	6
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Commelina benghalensis</i>	Benghal wandering Jew	6
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Datura stramonium</i>	Thorn apple	6
	<i>Digitaria sanguinalis</i>	Crab fingergrass	6
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Nicandra physalodes</i>	Apple of Peru	6
	<i>Schkuhria pinnata</i>	Dwarf marigold	6
	<i>Spermacoce senensis</i>	Spike leaf	6
	<i>Tagetes minuta</i>	Khakiweed	8
ACETOCHLOR 700 EC at 570 mL/ha plus PARMANTIG at 400 mL/ha pre-emergence followed by PARMANTIG at 800 mL/ha post-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	4
	<i>Amaranthus hybridus</i>	Cape pigweed	6
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Commelina benghalensis</i>	Benghal wandering Jew	6
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Datura stramonium</i>	Thorn apple	6
	<i>Digitaria sanguinalis</i>	Crab fingergrass	6
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Nicandra physalodes</i>	Apple of Peru	6
	<i>Schkuhria pinnata</i>	Dwarf marigold	6
	<i>Spermacoce senensis</i>	Spike leaf	6
	<i>Tagetes minuta</i>	Khakiweed	8
ACETOCHLOR 700 EC at 850 mL/ha plus PARMANTIG at 400 mL/ha pre-emergence followed by PARMANTIG at 800 mL/ha post-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	4
	<i>Amaranthus hybridus</i>	Cape pigweed	6
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Commelina benghalensis</i>	Benghal wandering Jew	6
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Datura stramonium</i>	Thorn apple	6
	<i>Digitaria sanguinalis</i>	Crab fingergrass	6
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Nicandra physalodes</i>	Apple of Peru	6
	<i>Schkuhria pinnata</i>	Dwarf marigold	6
	<i>Spermacoce senensis</i>	Spike leaf	6
	<i>Tagetes minuta</i>	Khakiweed	8

TABLE 10(a): ACETOCHLOR 700 EC (refer to Table 1) (applied pre-emergence of maize, sweetcorn and weeds) followed by cultivation followed by PARMANTIG plus ACETOCHLOR 900 EC (applied pre-emergence of weeds immediately after last cultivation):

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
ACETOCHLOR 700 EC (Table 1) pre-emergence followed by PARMANTIG at 400 ml/ha plus ACETOCHLOR 900 EC at 183 ml/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Commelina benghalensis</i>	Benghal wandering Jew	8
	<i>Bidens formosa</i>	Cosmos	4
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Galinsoga parviflora</i>	Gallant Soldier	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	6
	<i>Setaria verticillata</i>	Sticky bristle grass	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tribulus terrestris</i>	Dubbeltje	6
	<i>Urochloa panicoides</i>	Herringbone grass	8
ACETOCHLOR 700 EC (Table 1) pre-emergence followed by PARMANTIG at 600 ml/ha plus ACETOCHLOR 900 EC at 183 ml/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Cleome monophylla</i>	Spindlepod	4
	<i>Commelina benghalensis</i>	Benghal wandering Jew	8
	<i>Bidens formosa</i>	Cosmos	4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	4
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Galinsoga parviflora</i>	Gallant Soldier	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Setaria verticillata</i>	Sticky bristle grass	8
	<i>Spermocoe senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tribulus terrestris</i>	Dubbeltje	6
	<i>Urochloa panicoides</i>	Herringbone grass	8
ACETOCHLOR 700 EC (Table 1) pre-emergence followed by PARMANTIG at 400 ml/ha plus ACETOCHLOR 900 EC at 267 ml/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Commelina benghalensis</i>	Benghal wandering Jew	8
	<i>Bidens formosa</i>	Cosmos	4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	4
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Galinsoga parviflora</i>	Gallant Soldier	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Panicum schinzii</i>	Sweet buffalo grass	8

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
	<i>Portulaca oleracea</i> <i>Schkuhria pinnata</i> <i>Setaria verticillata</i> <i>Spermacoce senensis</i> <i>Tagetes minuta</i> <i>Tribulus terrestris</i> <i>Urochloa panicoides</i>	Purslane Dwarf marigold Sticky bristle grass Spike leaf Khakiweed Dubbeltjie Herringbone grass	8 6 8 8 8 6 8
ACETOCHLOR 700 EC (Table 1) pre-emergence followed by PARMANTIG at 600 mL/ha plus ACETOCHLOR 900 EC at 267 mL/ha pre-emergence	<i>Amaranthus deflexus</i> <i>Amaranthus hybridus</i> <i>Amaranthus spinosus</i> <i>Chenopodium album</i> <i>Chloris virgata</i> <i>Cleome monophylla</i> <i>Commelina benghalensis</i> <i>Bidens formosa</i> <i>Crotalaria sphaerocarpa</i> <i>Datura ferox</i> <i>Digitaria sanguinalis</i> <i>Eleusine indica</i> <i>Galinsoga parviflora</i> <i>Hibiscus trionum</i> <i>Lepidium africanum</i> <i>Nicandra physalodes</i> <i>Panicum schinzii</i> <i>Portulaca oleracea</i> <i>Schkuhria pinnata</i> <i>Setaria verticillata</i> <i>Spermacoce senensis</i> <i>Tagetes minuta</i> <i>Tribulus terrestris</i> <i>Urochloa panicoides</i>	Perennial pigweed Cape pigweed Thorny pigweed White goosefoot Feathertop Chloris Spindlepod Benghal wandering Jew Cosmos Mealie Crotalaria Large thorn apple Crab fingergrass Goose grass Gallant Soldier Bladderweed Pepper cress Apple of Peru Sweet buffalo grass Purslane Dwarf marigold Sticky bristle grass Spike leaf Khakiweed Dubbeltjie Herringbone grass	8 8 8 8 8 4 8 4 8 8 8 8 8 8 4 8 8 8 8 8 6 8
ACETOCHLOR 700 EC (Table 1) pre-emergence followed by PARMANTIG at 400 mL/ha plus ACETOCHLOR 900 EC at 350 mL/ha pre-emergence	<i>Amaranthus deflexus</i> <i>Amaranthus hybridus</i> <i>Amaranthus spinosus</i> <i>Chenopodium album</i> <i>Chloris virgata</i> <i>Commelina benghalensis</i> <i>Bidens formosa</i> <i>Crotalaria sphaerocarpa</i> <i>Datura ferox</i> <i>Digitaria sanguinalis</i> <i>Eleusine indica</i> <i>Galinsoga parviflora</i> <i>Lepidium africanum</i> <i>Nicandra physalodes</i> <i>Panicum schinzii</i> <i>Portulaca oleracea</i> <i>Schkuhria pinnata</i> <i>Setaria verticillata</i> <i>Spermacoce senensis</i> <i>Tagetes minuta</i> <i>Tribulus terrestris</i> <i>Urochloa panicoides</i>	Perennial pigweed Cape pigweed Thorny pigweed White goosefoot Feathertop Chloris Benghal wandering Jew Cosmos Mealie Crotalaria Large thorn apple Crab fingergrass Goose grass Gallant Soldier Pepper cress Apple of Peru Sweet buffalo grass Purslane Dwarf marigold Sticky bristle grass Spike leaf Khakiweed Dubbeltjie Herringbone grass	8 8 8 8 8 8 4 4 8 8 8 8 8 4 8 8 6 8 8 8 6 8
ACETOCHLOR 700 EC (Table 1) pre-emergence followed by PARMANTIG at 600 mL/ha plus ACETOCHLOR 900 EC at 350 mL/ha pre-emergence	<i>Amaranthus deflexus</i> <i>Amaranthus hybridus</i> <i>Amaranthus spinosus</i> <i>Chenopodium album</i> <i>Chloris virgata</i> <i>Cleome monophylla</i> <i>Commelina benghalensis</i> <i>Bidens formosa</i> <i>Crotalaria sphaerocarpa</i>	Perennial pigweed Cape pigweed Thorny pigweed White goosefoot Feathertop Chloris Spindlepod Benghal wandering Jew Cosmos Mealie Crotalaria	8 8 8 8 8 4 8 4 4

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Galinsoga parviflora</i>	Gallant Soldier	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Setaria verticillata</i>	Sticky bristle grass	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tribulus terrestris</i>	Dubbeltjie	6
	<i>Urochloa panicoides</i>	Herringbone grass	8

TABLE 10(b): ACETOCHLOR 700 EC (Refer to Table 1) (applied pre-emergence of maize, sweetcorn and weeds) followed by PARMANTIG plus ACETOCHLOR 900 EC OR KAPLYN 960 EC plus ASTRANT at 200 ml/100 l spray mixture:
Applied post-emergence of weeds (at 2 to 4 leaf stage). No cultivation.

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
ACETOCHLOR 700 EC (Table 1)	<i>Amaranthus hybridus</i>	Cape pigweed	8
pre-emergence	<i>Amaranthus spinosus</i>	Thorny pigweed	8
followed by	<i>Bidens pilosa</i>	Common Blackjack	6
PARMANTIG	<i>Chenopodium album</i>	White goosefoot	8
at 400 ml/ha	<i>Chloris virgata</i>	Feathertop Chloris	8
plus	<i>Commelina benghalensis</i>	Benghal wandering Jew	8
ACETOCHLOR 900 EC	<i>Datura ferox</i>	Large thorn apple	8
at 700 ml/ha	<i>Datura stramonium</i>	Thorn apple	6
post-emergence	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
OR	<i>Eleusine indica</i>	Goose grass	8
KAPLYN 960 EC	<i>Galinsoga parviflora</i>	Gallant Soldier	8
at 430 ml / ha	<i>Panicum schinzii</i>	Sweet buffalo grass	8
post-emergence	<i>Portulaca oleracea</i>	Purslane	8
	<i>Setaria verticillata</i>	Sticky bristle grass	8
	<i>Solanum aculeatissimum</i>	Goats apple	6
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Triumfetta speculua</i>	---	6
	<i>Urochloa panicoides</i>	Herringbone grass	8
ACETOCHLOR 700 EC (Table 1)	<i>Amaranthus deflexus</i>	Perennial pigweed	6
pre-emergence	<i>Amaranthus hybridus</i>	Cape pigweed	8
followed by	<i>Amaranthus spinosus</i>	Thorny pigweed	8
PARMANTIG	<i>Bidens pilosa</i>	Common Blackjack	6
at 600 ml/ha	<i>Chenopodium album</i>	White goosefoot	8
plus	<i>Chloris virgata</i>	Feathertop Chloris	8
ACETOCHLOR 900 EC	<i>Commelina benghalensis</i>	Benghal wandering Jew	8
at 840 ml/ha	<i>Datura ferox</i>	Large thorn apple	8
post-emergence	<i>Datura stramonium</i>	Thorn apple	6
OR	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
KAPLYN 960 EC	<i>Eleusine indica</i>	Goose grass	8
at 430 ml / ha	<i>Galinsoga parviflora</i>	Gallant Soldier	8
post-emergence	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	6
	<i>Setaria verticillata</i>	Sticky bristle grass	8
	<i>Solanum aculeatissimum</i>	Goats apple	6
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Triumfetta speculua</i>	----	6
	<i>Urochloa panicoides</i>	Herringbone grass	8

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
ACETOCHLOR 700 EC (Table 1) pre-emergence followed by PARMANTIG at 400 mL/ha plus ACETOCHLOR 900 EC at 700 mL / ha post-emergence OR KAPLYN 960 EC at 520 mL / ha post-emergence	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Bidens pilosa</i>	Common Blackjack	6
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Commelina benghalensis</i>	Benghal wandering Jew	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Datura stramonium</i>	Thorn apple	6
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Galinsoga parviflora</i>	Gallant Soldier	8
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Setaria verticillata</i>	Sticky bristle grass	8
	<i>Solanum aculeatissimum</i>	Goats apple	6
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Triumfetta speculius</i>	---	6
	<i>Urochloa panicoides</i>	Herringbone grass	8
ACETOCHLOR 700 EC (Table 1) pre-emergence followed by PARMANTIG at 1,0 L/ha plus ACETOCHLOR 900 EC at 833 mL / ha post-emergence OR KAPLYN 960 EC at 520 mL / ha post-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Bidens pilosa</i>	Common Blackjack	6
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Commelina benghalensis</i>	Benghal wandering Jew	8
	<i>Cyperus esculentus</i>	Yellow nutsedge	6
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Datura stramonium</i>	Thorn apple	6
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Galinsoga parviflora</i>	Gallant Soldier	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	6
	<i>Setaria verticillata</i>	Sticky bristle grass	8
	<i>Solanum aculeatissimum</i>	Goats apple	6
	<i>Spermocoe senensis</i>	Spike leaf	6
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Triumfetta speculius</i>	---	6
	<i>Urochloa panicoides</i>	Herringbone grass	8

TABLE 11(a): EPTC PLUS (pre-plant incorporated) (Refer to Table 2) followed by PARMANTIG:
Applied **pre-emergence** of weeds immediately after last cultivation.

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
EPTC PLUS (ppi) (Table 2) followed by PARMANTIG at 600 mL/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Brachiaria eruciformis</i>	Sweet signal-grass	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris pycnothrix</i>	Spider-web Chloris	8
	<i>Chloris virgata</i>	Feathertop Chloris	4
	<i>Cleome monophylla</i>	Spindlepod	4
	<i>Bidens formosa</i>	Cosmos	4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	4
	* <i>Cyperus esculentus</i>	Yellow nutsedge	8
	* <i>Cyperus rotundus</i>	Purple nutsedge	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Portulaca oleracea</i>	Purslane	6
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Setaria palide-fusca</i>	Red bristle grass	8
	<i>Setaria verticillata</i>	Sticky bristle grass	8
	* <i>Sorghum bicolor</i>	Wild grain sorghum	8
	* <i>Sorghum halepense</i>	Johnson grass	8
	* <i>Sorghum verticilliflorum</i>	Common wild sorghum	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tragus racemosus</i>	Large carrotseed grass	8
	<i>Tribulus terrestris</i>	Dubbeltjie	6
	<i>Urochloa panicoides</i>	Herringbone grass	8
* Weeds will only be controlled for 8 weeks after the EPTC PLUS application.			
EPTC PLUS (ppi) (Table 2) followed by PARMANTIG at 800 mL/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Brachiaria eruciformis</i>	Sweet signal-grass	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris pycnothrix</i>	Spider-web Chloris	8
	<i>Chloris virgata</i>	Feathertop Chloris	4
	<i>Cleome monophylla</i>	Spindlepod	4
	<i>Commelina benghalensis</i>	Bengal wandering Jew	8
	<i>Bidens formosa</i>	Cosmos	4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	4
	* <i>Cyperus esculentus</i>	Yellow nutsedge	8
	* <i>Cyperus rotundus</i>	Purple nutsedge	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Portulaca oleracea</i>	Purslane	6
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Setaria palide-fusca</i>	Red bristle grass	8
	<i>Setaria verticillata</i>	Sticky bristle grass	8
	* <i>Sorghum bicolor</i>	Wild grain sorghum	8
	* <i>Sorghum halepense</i>	Johnson grass	8
	* <i>Sorghum verticilliflorum</i>	Common wild sorghum	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tragus racemosus</i>	Large carrotseed grass	8
	<i>Tribulus terrestris</i>	Dubbeltjie	6
	<i>Urochloa panicoides</i>	Herringbone grass	8
* Weeds will only be controlled for 8 weeks after the EPTC PLUS application.			

TABLE 11(b): EPTC PLUS (pre-plant incorporated) (refer to Table 2) followed by PARMANTIG plus ASTRANT spray mixture:
Applied **post-emergence** of weeds (2 to 4 leaf stage). No cultivation.
Maize and sweetcorn only.

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
EPTC PLUS (ppi) (Table 2) followed by PARMANTIG at 800 ml/ha post-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Brachiaria eruciformis</i>	Sweet signal-grass	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris pycnothrix</i>	Spider-web Chloris	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	* <i>Cyperus esculentus</i>	Yellow nutsedge	8
	* <i>Cyperus rotundus</i>	Purple nutsedge	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Datura stramonium</i>	Thorn apple	6
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Nicandra physalodes</i>	Apple of Peru	6
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Portulaca oleracea</i>	Purslane	6
	<i>Schkuhria pinnata</i>	Dwarf marigold	6
	<i>Setaria palide-fusca</i>	Red bristle grass	8
	<i>Setaria verticillata</i>	Sticky bristle grass	8
	* <i>Sorghum bicolor</i>	Wild grain sorghum	8
	* <i>Sorghum halepense</i>	Johnson grass	8
	* <i>Sorghum verticilliflorum</i>	Common wild sorghum	8
	<i>Spermacoce senensis</i>	Spike leaf	6
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tragus racemosus</i>	Large carrotseed grass	8
	<i>Urochloa panicoides</i>	Herringbone grass	8
	<i>Xanthium strumarium</i>	Cocklebur	8
* Weeds will only be controlled for 8 weeks after the EPTC PLUS application.			

TABLE 12(a): EPTC PLUS (pre-plant incorporated) (refer to Table 2) followed by cultivation followed by ACETOCHLOR 700 EC plus PARMANTIG (applied pre-emergence of weeds immediately after last cultivation):

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
EPTC PLUS (ppi) (Table 2) followed by ACETOCHLOR 700 EC at 570 mL/ha plus PARMANTIG at 600 mL/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Brachiaria eruciformis</i>	Sweet signal-grass	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris pycnothrix</i>	Spider-web Chloris	8
	<i>Chloris virgata</i>	Feathertop Chloris	4
	<i>Cleome monophylla</i>	Spindlepod	4
	<i>Bidens formosa</i>	Cosmos	4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	4
	* <i>Cyperus esculentus</i>	Yellow nutsedge	8
	* <i>Cyperus rotundus</i>	Purple nutsedge	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	6
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Panicum schinzii</i>	Sweet buffalo grass	6
	<i>Portulaca oleracea</i>	Purslane	6
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Setaria pallide-fusca</i>	Red bristle grass	8
	<i>Setaria verticillata</i>	Sticky bristle grass	8
	* <i>Sorghum bicolor</i>	Wild grain sorghum	8
	* <i>Sorghum halepense</i>	Johnson grass	8
	* <i>Sorghum verticilliflorum</i>	Common wild sorghum	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tragus racemosus</i>	Large carrotseed grass	8
	<i>Urochloa panicoides</i>	Herringbone grass	8
* Weeds will only be controlled for 8 weeks after the EPTC PLUS application.			
EPTC PLUS (ppi) (Table 2) followed by ACETOCHLOR 700 EC at 570 mL/ha plus PARMANTIG at 800 mL/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Brachiaria eruciformis</i>	Sweet signal-grass	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris pycnothrix</i>	Spider-web Chloris	8
	<i>Chloris virgata</i>	Feathertop Chloris	4
	<i>Cleome monophylla</i>	Spindlepod	4
	<i>Bidens formosa</i>	Cosmos	4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	4
	* <i>Cyperus esculentus</i>	Yellow nutsedge	8
	* <i>Cyperus rotundus</i>	Purple nutsedge	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Portulaca oleracea</i>	Purslane	6
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Setaria pallide-fusca</i>	Red bristle grass	8
	<i>Setaria verticillata</i>	Sticky bristle grass	8
	* <i>Sorghum bicolor</i>	Wild grain sorghum	8
	* <i>Sorghum halepense</i>	Johnson grass	8
	* <i>Sorghum verticilliflorum</i>	Common wild sorghum	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tragus racemosus</i>	Large carrotseed grass	8
	<i>Tribulus terrestris</i>	Dubbeltjie	6
	<i>Urochloa panicoides</i>	Herringbone grass	8
* Weeds will only be controlled for 8 weeks after the EPTC PLUS application.			

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
EPTC PLUS (ppi) (Table 2) followed by ACETOCHLOR 700 EC at 570 ml/ha plus PARMANTIG at 1,0 l/ha pre-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	8
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Brachiaria eruciformis</i>	Sweet signal-grass	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris pycnothrix</i>	Spider-web Chloris	8
	<i>Chloris virgata</i>	Feathertop Chloris	4
	<i>Cleome monophylla</i>	Spindlepod	4
	<i>Commelina benghalensis</i>	Bengal wandering Jew	8
	<i>Bidens formosa</i>	Cosmos	4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	4
	* <i>Cyperus esculentus</i>	Yellow nutsedge	8
	* <i>Cyperus rotundus</i>	Purple nutsedge	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Gisekia pharmacoides</i>	Gisekia	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Lepidium africanum</i>	Pepper cress	8
	<i>Nicandra physalodes</i>	Apple of Peru	4
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Portulaca oleracea</i>	Purslane	6
	<i>Raphanus raphanistrum</i>	Wild radish	4
	<i>Schkuhria pinnata</i>	Dwarf marigold	8
	<i>Setaria pallide-fusca</i>	Red bristle grass	8
	<i>Setaria verticillata</i>	Sticky bristle grass	8
	* <i>Sorghum bicolor</i>	Wild grain sorghum	8
	* <i>Sorghum halepense</i>	Johnson grass	8
	* <i>Sorghum verticilliflorum</i>	Common wild sorghum	8
	<i>Spermacoce senensis</i>	Spike leaf	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tragus racemosus</i>	Large carrotseed grass	8
	<i>Tribulus terrestris</i>	Dubbeltjie	6
	<i>Urochloa panicoides</i>	Herringbone grass	8
* Weeds will only be controlled for 8 weeks after the EPTC PLUS application.			

TABLE 12(b): EPTC PLUS (pre plant incorporated) (refer to Table 2) followed by cultivation followed by **ACETOCHLOR 700 EC plus PARMANTIG plus ASTRANT spray mixture** (applied post-emergence of weeds):
No cultivation.

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
EPTC PLUS (ppi) (Table 2) followed by ACETOCHLOR 700 EC at 570 mL/ha plus PARMANTIG at 800 mL/ha post-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	4
	<i>Amaranthus hybridus</i>	Cape pigweed	6
	<i>Brachiaria eruciformis</i>	Sweet signal-grass	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris pycnothrix</i>	Spider-web Chloris	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	* <i>Cyperus esculentus</i>	Yellow nutsedge	8
	* <i>Cyperus rotundus</i>	Purple nutsedge	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Datura stramonium</i>	Thorn apple	6
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Nicandra physalodes</i>	Apple of Peru	6
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Portulaca oleracea</i>	Purslane	6
	<i>Schkuhria pinnata</i>	Dwarf marigold	6
	<i>Setaria pallide-fusca</i>	Red bristle grass	8
	<i>Setaria verticillata</i>	Sticky bristle grass	8
	* <i>Sorghum bicolor</i>	Wild grain sorghum	8
	* <i>Sorghum halepense</i>	Johnson grass	8
	* <i>Sorghum verticilliflorum</i>	Common wild sorghum	8
	<i>Spermacoe senensis</i>	Spike leaf	6
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tragus racemosus</i>	Large carrotseed grass	8
	<i>Urochola panicoides</i>	Herringbone grass	8
	<i>Xanthium strumarium</i>	Cocklebur	6
* Weeds will only be controlled for 8 weeks after the EPTC PLUS application.			
EPTC PLUS (ppi) (Table 2) followed by ACETOCHLOR 700 EC at 570 mL/ha plus PARMANTIG at 1,0 L/ha post-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	4
	<i>Amaranthus hybridus</i>	Cape pigweed	6
	<i>Brachiaria eruciformis</i>	Sweet signal-grass	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris pycnothrix</i>	Spider-web Chloris	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	* <i>Cyperus esculentus</i>	Yellow nutsedge	8
	* <i>Cyperus rotundus</i>	Purple nutsedge	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Datura stramonium</i>	Thorn apple	6
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Hibiscus cannabinus</i>	Kenaf	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Nicandra physalodes</i>	Apple of Peru	6
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Portulaca oleracea</i>	Purslane	6
	<i>Physalis angulata</i>	Wild gooseberry	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	6
	<i>Setaria pallide-fusca</i>	Red bristle grass	8
	<i>Setaria verticillata</i>	Sticky bristle grass	8
	* <i>Sorghum bicolor</i>	Wild grain sorghum	8
	* <i>Sorghum halepense</i>	Johnson grass	8
	* <i>Sorghum verticilliflorum</i>	Common wild- sorghum	8
	<i>Spermacoe senensis</i>	Spike leaf	6
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Tragus racemosus</i>	Large carrotseed grass	8
	<i>Urochola panicoides</i>	Herringbone grass	8
	<i>Xanthium strumarium</i>	Cocklebur	6
* Weeds will only be controlled for 8 weeks after the EPTC PLUS application.			

TABLE 13(a): PARMANTIG plus BROMOXYNIL 225 tank mix (applied **post-emergence of maize and sweetcorn)**
(1 to 6 leaf stage of weeds):

BROMOXYNIL 225 can be replaced with **ASTRANT** spray mixture.

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
PARMANTIG at 400 mℓ/ha plus BROMOXYNIL 225 at 450 mℓ/ha	<i>Amaranthus deflexus</i>	Perennial pigweed	4
	<i>Bidens pilosa</i>	Common Blackjack	4
	<i>Cleome monophylla</i>	Spindlepod	4
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Xanthium spinosum</i>	Spiny cocklebur	6
	<i>Xanthium strumarium</i>	Cocklebur	6
PARMANTIG at 600 mℓ/ha plus BROMOXYNIL 225 at 450 mℓ/ha	<i>Amaranthus deflexus</i>	Perennial pigweed	4
	<i>Amaranthus hybridus</i>	Cape pigweed	4
	<i>Bidens pilosa</i>	Common Blackjack	4
	<i>Chloris virgata</i>	Feathertop Chloris	6
	<i>Cleome monophylla</i>	Spindlepod	4
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Datura stramonium</i>	Thorn apple	6
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Ipomoea purpurea</i>	Common morning glory	4
	<i>Schkuhria pinnata</i>	Dwarf marigold	6
	<i>Spermacece senensis</i>	Spike leaf	6
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Xanthium spinosum</i>	Spiny cocklebur	6
	<i>Xanthium strumarium</i>	Cocklebur	6
PARMANTIG at 800 mℓ/ha plus BROMOXYNIL 225 at 450 mℓ/ha	<i>Amaranthus deflexus</i>	Perennial pigweed	4
	<i>Amaranthus hybridus</i>	Cape pigweed	4
	<i>Bidens pilosa</i>	Common Blackjack	4
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Chloris virgata</i>	Feathertop Chloris	8
	<i>Cleome monophylla</i>	Spindlepod	4
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Datura stramonium</i>	Thorn apple	6
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Ipomoea purpurea</i>	Common morning glory	4
	<i>Nicandra physalodes</i>	Apple of Peru	6
	<i>Schkuhria pinnata</i>	Dwarf marigold	6
	<i>Spermacece senensis</i>	Spike leaf	6
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Xanthium spinosum</i>	Spiny cocklebur	6
	<i>Xanthium strumarium</i>	Cocklebur	6

TABLE 13(b): ACETOCHLOR 700 EC (pre-emergence of maize, sweetcorn and weeds) followed by PARMANTIG plus BROMOXYNIL 225 (no cultivation) (1 to 6 leaf stage of weeds) (BROMOXYNIL 225 can be replaced with ASTRANT spray mixture):

DOSAGE RATE	WEEDS CONTROLLED		WEEKS OF CONTROL
	BOTANICAL NAME	COMMON NAME	
ACETOCHLOR 700 EC at 570 mL/ha followed by PARMANTIG at 800 mL/ha plus BROMOXYNIL 225 at 450 mL/ha)	<i>Amaranthus deflexus</i>	Perennial pigweed	6
	<i>Amaranthus hybridus</i>	Cape pigweed	8
	<i>Amaranthus spinosus</i>	Thorny pigweed	8
	<i>Chenopodium album</i>	White goosefoot	8
	<i>Cloris virgata</i>	Feathertop Chloris	8
	<i>Commelina benghalensis</i>	Bengal wandering Jew	8
	<i>Datura ferox</i>	Large thorn apple	8
	<i>Digitaria sanguinalis</i>	Crab fingergrass	8
	<i>Eleusine indica</i>	Goose grass	8
	<i>Galinisoga parviflora</i>	Gallant Soldier	8
	<i>Hibiscus trionum</i>	Bladderweed	8
	<i>Nicandra physalodes</i>	Apple of Peru	6
	<i>Panicum schinzii</i>	Sweet buffalo grass	8
	<i>Portulaca oleracea</i>	Purslane	8
	<i>Schkuhria pinnata</i>	Dwarf marigold	6
	<i>Setaria verticillata</i>	Sticky bristle grass	8
	<i>Spermocoe senensis</i>	Spike leaf	6
	<i>Tagetes minuta</i>	Khakiweed	8
	<i>Urochloa panicoides</i>	Herringbone grass	8
	<i>Xanthium spinosum</i>	Spiny cocklebur	6
	<i>Xanthium strumarium</i>	Cocklebur	6

NOTES: MAIZE AND SWEETCORN (excluding the supersweet cultivars) ONLY:

FOR CONTROL OF WEEDS LISTED BELOW THE FOLLOWING SPRAY PROGRAMMES MUST BE FOLLOWED (IN AREAS OF HIGH PRESSURE).

1.) *Commelina benghalensis*: (Dry conditions will result in variable control.)

• **KWAZULU-NATAL:**

850 mL **ACETOCHLOR 700 EC**/ha **plus** 400 mL **PARMANTIG**/ha applied **pre-emergence** followed by 1,6 L **PARMANTIG**/ha **plus** **ASTRANT** spray mixture applied **post-emergence**.

OR

ACETOCHLOR 700 EC (refer to Table 1) applied **pre-emergence** followed by 1,0 L **PARMANTIG** **plus** 840 mL **METOLLA 960 EC**/ha **plus** **ASTRANT** at 200 mL/100 L spray mixture **post-emergence**. No cultivation.

• **HIGHVELD:**

460 mL **ACETOCHLOR 700 EC**/ha **plus** 400 mL **PARMANTIG**/ha applied **pre-emergence** followed by 800 mL **PARMANTIG**/ha applied **pre-emergence**. Cultivate between applications.

OR

ACETOCHLOR 700 EC (refer to Table 1) applied pre -emergence followed by 600 mL **PARMANTIG** **plus** 530 mL **METOLLA 960 EC**/ha applied **pre-emergence**. Cultivate between applications.

2.) *Ipomoea purpurea* and *Tribulus terrestris*: (for 3 to 4 weeks control, but variable under adverse conditions). Wherever *Ipomoea purpurea* and/or *Tribulus terrestris* occurs, add 450 mL **BROMOXYNIL 225** per ha to the **post-emergence** application of whatever **PARMANTIG** programme is followed.