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SUGARCANE WEED MANAGEMENT WHITE PAPER BY IVORYCHEM

Herbicides	General Weed control	VIKING 48 SL
	Broadleaf Weeds	ZANTAN
	Pre-emergent Weeds	PREMIRON, ZANTAN

Weed Control Methods

Mechanical methods

- Removal of weeds on bunds, nearby waste lands to arrest the spread of the same.
- Removal of weeds by hand pulling, hoeing, ploughing, harrowing, discing etc.
- Blind hoeing, interculture and earthing - up are the main operation performed before germination, during tillering and at maximum tillering stages respectively.
- The main objective of hoeing and interculture is to control weeds, to minimise evaporation and to increase aeration in root zone.
- Destruction of underground parts by ridging, deep ploughing and puddling etc.

Cultural Methods

- Adopting crop rotation (Rice followed by sugarcane)
- Growing intercrops competing effectively with weeds (short duration quick growing and smothered crops like pulses)
- Mulching (using sugarcane trash)
- Clean cultivation
- Trap cropping

Chemical Methods

- Pre-emergence and post-emergence application of ZANTAN at 1.0 to 1.5 Kg/ha - to control dicotyledons and broad leaved weeds
- Pre-emergence application of VIKING 48 SL - to control both monocot and dicotyledon weeds.

Time of herbicide application

- Pre-emergence application of herbicides is done soon after planting on the third or fourth day.
- For controlling turning weeds like Ipomea spp application of Atrazine or Metribuzin may be done after final earthing up around the cane rows.



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Use of herbicides in inter cropped sugarcane

- Alachlor and linuran are useful herbicides to control weeds where sugarcane intercropped with pulses, oilseeds and potato.
- Oxyfluorfen at 0.3 Kg a.i./ha as pre-emergence spray is useful when pulse is intercropped with sugarcane.

Integrated weed management

- Deep ploughing to remove perennial weeds, to bury weed seeds deep.
 - Repeated tillage operations before planting to reduce weed growth before planting.
 - Cleaning of irrigation channels, using clean sugarcane setts, checking seeding of weeds, and using of well decomposed FYM or compost to prevent weed spread.
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- Pre-emergence herbicide application to check weed growth during the critical crop stage.
 - Post-emergence herbicide application to check persisting broad leaved weeds.
 - Interculture coupled with hand weeding to remove left over weeds.
 - Intercropping and mulching to smother weeds in between cane rows.
 - Crop rotation to suppress dominant weed flora.
 - Fallowing the land to expose, activate hidden weed seeds and then destroy them.

For Sugarcane pests like field crickets, grasshoppers and cutworms PLUNGE 85 WP is a popular product. For further details on insecticides, fungicides and weedicides for Sugarcane kindly send an email to contact@ivorychem.com with subject SUGARCANE MANAGEMENT.