

Control of *Nicandra physalodes* in Maize

Nicandra physalodes Chinese lantern, apple of Peru (English), Gheraccia (Tigrigna)

	<p style="text-align: center;">Prevention</p> <ul style="list-style-type: none"> • Clean farm tools and machines after leaving an infested area to reduce the risk of spread • Plough the field to expose weed seeds to the sun and predators and/or to bury weed seeds below their germination zone • Remove weeds before seed setting to avoid seed addition to the soil 	<p style="text-align: center;">Monitoring</p> <ul style="list-style-type: none"> • Regular surveillance of crop land to identify and remove all <i>Nicandra</i> plants throughout the cropping season • Check fields for infestation of <i>Nicandra</i> during fallow period, before planting and after planting of maize in order to determine control methods that best suit time and scale of infestation • Critical period of weed competition in maize 3 - 7 weeks after emergence of maize 	<p style="text-align: center;">Direct Control</p> <ul style="list-style-type: none"> • Dig, hand pull or hoe out before seed set or cut the plants when the soil is moist to facilitate uprooting, or till the soil when weeds are at seedling stage • To dispose of pulled weed, if seed has not set, add to a compost heap. If seed has set, ensure pulled weed is buried to least 60 cm 	<p style="text-align: center;">Direct Control</p> <ul style="list-style-type: none"> • Use of chemical herbicides may lead to the development of herbicide resistance. • When using a pesticide, always wear protective clothing and follow the instructions on the product label, such as dosage, timing of application, and pre-harvest interval. 	<p style="text-align: center;">Restrictions</p>
	<ul style="list-style-type: none"> • Only use certified seed to avoid introduction through contamination • Apply fertilizer within the crop rows to promote better crop growth • Rotate maize with pulse crops to reduce weed pressure • Consider application of a pre-emergence herbicide if the weed was present in the preceding year 			<ul style="list-style-type: none"> • Apply pre-emergence herbicide Pendimethalin (3.05 L product/ha); apply uniformly to the soil within 2 days of sowing • Apply 2,4-D 720g/L a.i (1-1.5 L product/ha) 2-3 weeks after crop emergence 	<ul style="list-style-type: none"> • WHO class II (moderately hazardous) • WHO class II (moderately hazardous)



Ethiopia

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AUTHOR(S): Taye T., Frehiwot S. and Amare F.

EDITED BY: Plantwise