



رضا پور مهدی علمدارلو

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Rapeseed diseases management مدیریت بیماری‌های کلزا

Herbicides used and their application rate per hectare		Pre-planting	Pre-emergence	Post-emergence					Integrated weeds management	
		<i>Terflan (Trifluralin)</i> 2-2.5 litre	<i>Butizan star (Metazachlor + Quinmerac)</i> 2.5 litre	<i>Lontrel (Clopiralid)</i> 0.8-1 litre	<i>Gallant (Haloxfop etoxyethyl)</i> 2-2.5 litre	<i>Gallant super (Haloxfop-R methyl ester)</i> 0.75-1 litre	<i>Focus (Cycloxydim)</i> 2 litre	<i>Select Super (Clethodim)</i> 0.8-1 litre		<i>Pantera (Quizalofop-p-tefural)</i> 1.5-2 litre
Broad leaf	Wild mustard (<i>Sinapis arvensis</i>)	Red	Yellow	Red	Red	Red	Red	Red	Red	-Use of healthy and certified seed with no weeds seed -Timely cultivation -Proper sowing depth -Proper sowing density -Rotationn with cereals and weed control (especially Brassicaceae family) in rotated crop. -Wet planting (irrigation of the ground before cultivation and control of weeds). -Use of cultivator in row cropping.
	Turnip weed (<i>Rapistrum rugosum</i>)	Red	Yellow	Red	Red	Red	Red	Red	Red	
	Shepherd's purse (<i>Capsella bursa-pastoris</i>)	Red	Green	Red	Red	Red	Red	Red	Red	
	Wild radish (<i>Raphanus raphanistrum</i>)	Red	Yellow	Red	Red	Red	Red	Red	Red	
	Flixweed (<i>Descurania Sophia</i>)	Red	Green	Red	Red	Red	Red	Red	Red	
	Sweetclover (<i>Melilotus officinalis</i>)	Blue	Green	Green	Red	Red	Red	Red	Red	
	Mallow (<i>Mavla spp</i>)	Blue	Green	Green	Red	Red	Red	Red	Red	
	Rough corn bedstraw (<i>Galium tricornutum</i>)	Green	Green	Green	Red	Red	Red	Red	Red	
	Corn buttercup	Green	Green	Green	Red	Red	Red	Red	Red	

	<i>(Ranunculus arvensis)</i>									<p>-Timely use of herbicides (post-emergence herbicides are better to be used at 2-6 leaves stage of the weeds).</p> <p>-In order to prevent resistance to herbicides, it is better to change the type of herbicides used at different times.</p>	
	Milk thistle <i>(SILYBUM MARIANUM)</i>										
Narrow leaf	Wild oat <i>(Avena fatua)</i>										
	Canary grass <i>(PHALARIS MINOR)</i>										
	Black grass <i>(Alopecurus myosyroides)</i>										
	Rigid ryegrass <i>(Lolium rigidum)</i>										
		<i>Effect</i>	<i>partially effective</i>	<i>ineffective</i>	<i>Unknown</i>						