

## Rapeseed diseases management مديريت بيمارى هاى كلزا

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Rapeseed growth stage			*	X	×	X	Ŷ	V	X	*V		States and	
Disease name	Cotyledon (A)	First leaf (B1)	Third leaf( B3)	Sixth leaf (B6)	Rosette	Stem elongation (C1-C2)	Bud formation_(D1)	Budding (D2)	Bud developme nt (E)	Start of Flowering (F1)	First Pod formation (G1)	Full Poddin g (G4)	Disease management strategies
Seedling damping off	Rhizoctonic	a sp., Fusariu	m spp, Pythiu	m spp									Timely cultivation, Healthy seed, Proper drainage, Rotation, Seed treatment with suitable fungicides such as carboxin thiram or metalaxyl compounds.
Downy mildew	Peronospor	ra parasitica											Rotation, Timely cultivation, Seed treatment with suitable fungicides such as metalaxyl-mancozeb.
Clubroot		Plasmodiop	ohora brassico	ae									Proper drainage, Rotation, Resistant varieties, Adding lime to the soil to increase acidity.
Blackleg	Leptosphae	eria maculans											Resistant varieties, Rotation and Stubble management, Suitable fungicides (Flutriafol and Tebuconazole).
Sclerotinia Stem Rot										Sclerotinia	sclerotiorum		Sclerotia-free seed planting, Rotation, fungicide application (Tebuconazole and Iprodione- Carbendazim.
Alternaria Blight		Alternaria s	spp										Healthy seed, Rotation and Stubble management, Suitable fungicides such as Tebuconazole.
White leaf spot		Mycosphaerella capsellae											Rotation and Stubble management, Host weeds control.
Light leaf spot		Pyrenopeziza brassica											Resistant varieties, Rotation and Stubble management, Suitable fungicides such as Carbendazim.
Powdery mildew										Erysiphe c	ruciferarum		Timely cultivation, Spraying with sulfur fungicide or Karatane.
Viral diseases		Beet western yellows virus, Cauliflower mosaic virus, Turnip mosaic virus											Timely cultivation, weeds control, Controlling insect vectors like aphids.
Verticillium wilt		Verticilium	ı dahlia										Rotation and Stubble management, Host weeds control.