

Clubroot Management Agreement

This Clubroot Management Agreement template can be used to develop a clubroot management plan for clubroot-infested fields within the County of Vermilion River. A proactive management plan will help to reduce or keep pathogen levels low and minimize yield losses due to clubroot.

For each section below, please check the box for all management strategies that will be used. The management strategies identified as **REQ** are **minimum requirements** that must be included. Additional management strategies are listed and should be considered whenever possible.

Field Location and Information:

Date:			
Landowner's name:			
Renter's name (if applicable):			
	Symptoms	5	
Legal land location of fields that will be managed according to this plan:	n: visible?	visible?	
	Yes No)	
Part 1: Crop Rotation			
Crop rotation will reduce pathogen (spore) levels and selection pressure on the	, -		
population to overcome resistance in the canola variety. Longer rotations are	encouraged in fields v	with	
high disease severity. Indicate which crop rotation interval will be followed:			
☐ Three-year rotation (two-year break) — REQ			
☐ Four-year rotation (three-year break)			
□ Longer than a four-year rotation			
 Perennial forage crop for more than two years 			
Other (please indicate:)		
	,		
Part 2: Variety Selection and Weed Control			
Please select all strategies that will be used:			
☐ Use of only clubroot-resistant varieties when canola is reintroduced t	to clubroot positive fie	lds –	
☐ Use of clubroot-resistant varieties in all canola fields			
☐ Control of volunteer crops including: canola, camelina, mustard or ot	her clubroot hosts – R	EQ	
☐ Control of cruciferous weeds throughout the rotations — REQ			
 Weed species to be controlled include stinkweed, shepherd's 	s purse, wild mustard,	ball	

mustard, dog mustard, flixweed, tansy mustard, peppergrass, yellow whitlow grass



REQ Part 3: Small Patch Management

Please sel	ect all strategies that will be used:
□ Li	prooting, removing and safe disposal of all clubroot- infected plants ming of soil in clubroot-infested area to increase pH to 7.5 se of DNA-based soil testing to monitor spore levels prior to seeding a susceptible host crop
Part 4: Re	educing Soil Movement
	licate how you will minimize the spread of clubroot and movement of clubroot-infested soil. strategies that will be used:
☐ Gi ☐ Cr ar ☐ Ec	se of soil conservation practices to reduce soil spread – REQ Zero tillage Reduced tillage (i.e. spring tillage only when needed for specific crop) rass the field entry to reduce spore levels or as an area for cleaning equipment reate a separate field exit away from existing field entrance and/or known clubroot infested reas quipment cleaning and sanitation practices Remove large clumps of soil before leaving the field Remove as much soil as possible using a brush or compressed air before leaving the field Wash and sanitize equipment when possible Require others working on the clubroot-infested land to implement a biosecurity protocol (protocols can include vehicle cleaning, use of disposable boot covers, etc.) isclosure of Clubroot Infestation and Biosecurity Management
	ect all strategies that will be used:
□ No	otification of all occupants, renters and easement holders who have access to the land otification and disclosure to contracted and/or other parties who have access to the land that ubroot is present (i.e. custom sprayers, utility companies, agronomists, etc.) isclosure that clubroot is present when the land is sold or rented to other parties
Part 6: Cl	ubroot Scouting and Monitoring
Please sel	ect all strategies that will be used:
vi	ontinued scouting and/or soil testing in fields where clubroot has been detected to monitor sible symptoms on plants and pathogen (spore) levels ontinued scouting in adjacent fields and other fields rented or owned
Renter's/I	Landowner's Signature: Date: