



ADAMA

Pea Guide 2020

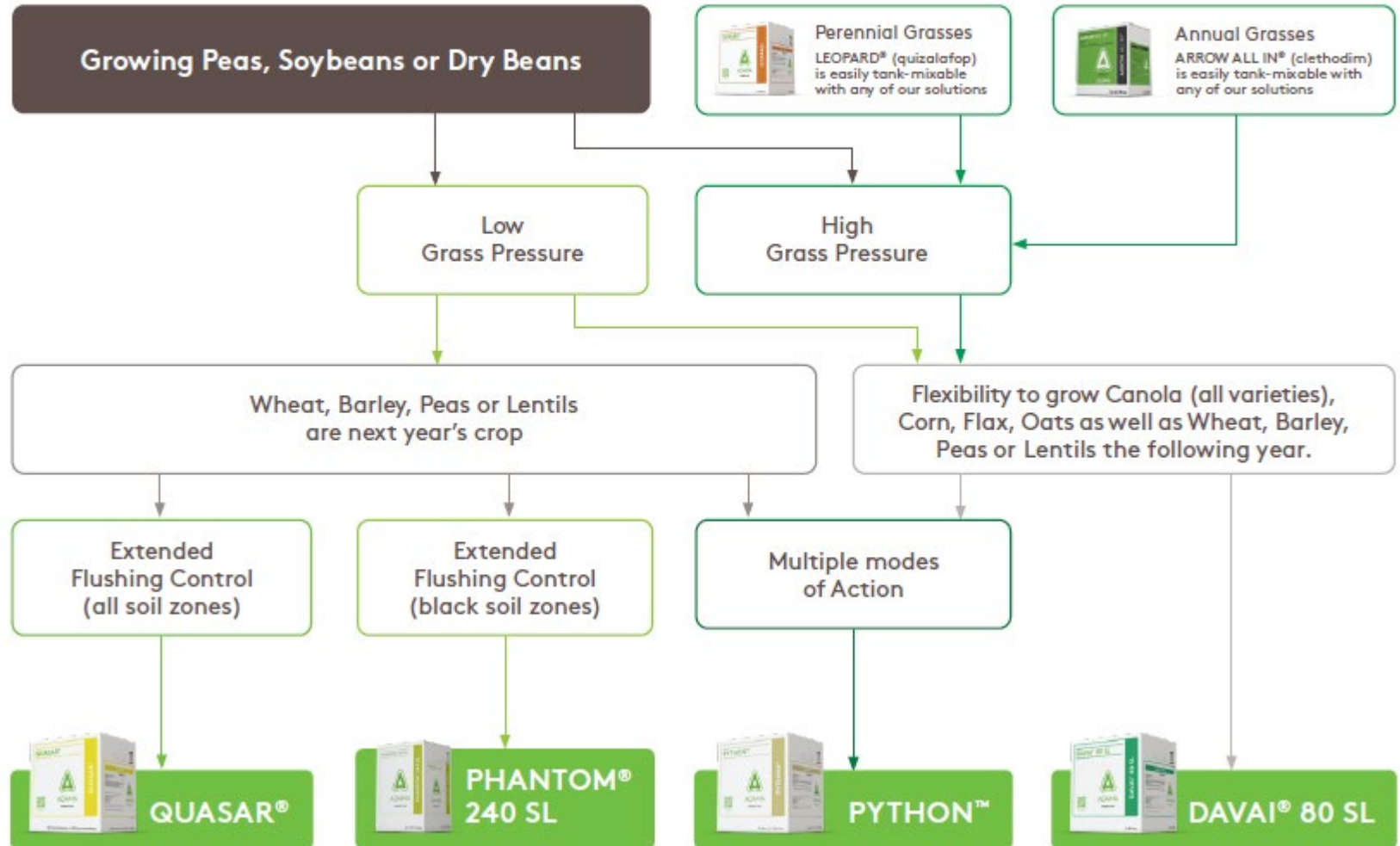
CONSIDER YOUR OPTIONS OPEN

HERBICIDE

INSECTICIDE

FUNGICIDE

HERBICIDE DECISION TREE



BROADLEAF WEEDS CONTROLLED BY PRODUCT

Product Name	Weed Stage at Application	Weed Species																	
		Chicloweed	Cleavers	Cow cockle	Flixweed	Green smartweed	Hemp-nettle	Kochia	Lamb's-quarters	Redroot pigweed	Russian thistle	Shepherd's purse	Stinkweed	Stork's bill	Tarbarry buckwheat	Volunter canola	Wild buckwheat*	Wild mustard	
DAVAI® 80 SL	cotyledon to 4 leaf	-	S	C	C	C	-	-	C	C	-	C	C	C	-	C ⁴	S	C	
DAVAI® 80 SL + ARROW ALL IN™	cotyledon to 4 leaf	-	S	C	C	C	-	-	C	C	-	C	C	C	-	C ⁴	S	C	
DAVAI® 80 SL + LEOPARD®	cotyledon to 4 leaf	-	S	C	C	C	-	-	C	C	-	C	C	C	-	C ⁴	S	C	
PHANTOM® 240 SL	cotyledon to 4 leaf	C	C	-	-	C	C	-	-	C	-	C	C	-	-	C ⁴	S	C	
PHANTOM® 240 SL + ARROW ALL IN™	cotyledon to 4 leaf	C	C	-	-	C	C	-	-	C	-	C	C	-	-	C ⁴	S	C	
PHANTOM® 240 SL + LEOPARD®	cotyledon to 4 leaf	C	C	-	-	C	C	-	-	C	-	C	C	-	-	C	S	C	
QUASAR®	cotyledon to 4 leaf	C	-	-	-	C	-	-	C	C	-	-	C	-	-	S	S	C	
QUASAR® + ARROW ALL IN™	cotyledon to 4 leaf	C	-	-	-	C	-	-	C	C	-	-	C	-	-	S	S	C	
QUASAR® + LEOPARD®	cotyledon to 4 leaf	C	-	-	-	C	-	-	C	C	-	-	C	-	-	S	S	C	
PYTHON™	cotyledon to 4 leaf	-	S	C	C	C	-	-	C	C	-	C	C	C	-	C	C	C	
SQUADRON®		C	-	C ^{6,7}	-	C	C	C ⁷	C	C ^{6,7}	C ⁶	C ^{6,7}	C	-	C	C ⁵	C ^{6,7}	C ^{6,7}	

^C control | ^S suppression | ¹ 2-5 leaf stage | ² 3 leaf to 4 leaf + 3 tillers | ³ 1-5 leaf up to 2 tillers | ⁴ non-Clearfield® varieties only | ⁵ non-triazine tolerant canola only
⁶ preplant incorporated with Treflan® Liquid EC herbicide | ⁷ preplant incorporated with Rival® EC herbicide

GRASSY WEEDS CONTROLLED BY PRODUCT

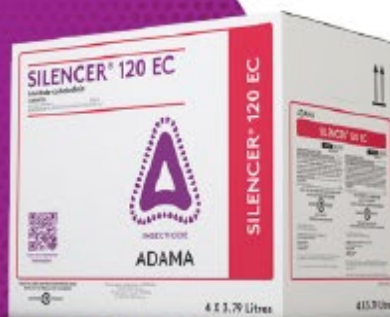
Product Name	Weed Stage at Application	Barnyard grass	Crabgrass	Dowry brome	Fall panicum	Foxtail barley	Green foxtail	Japanese brome grass	Witch grass	Persian darnel	Proso millet	Quackgrass	Volunteer barley	Volunteer canary seed	Volunteer corn	Volunteer durum wheat	Volunteer tame oats	Volunteer wheat	Wild oats	Yellow foxtail
DAVAI® 80 SL	1-4 true leaf	C	-	-	-	-	C	S	-	C	-	-	C	C	-	C	C	C	C	C
DAVAI® 80 SL + ARROW ALL IN™	1-6 true leaf	C	C	-	C	-	C	-	C	C	C	S	C	C	C	C	C	C	C	C
DAVAI® 80 SL + LEOPARD®	2 leaf to early tillering	C	-	C ¹	C	C ²	C	C ¹	C	-	C	S	C	-	C	C	C	C	C ³	C
PHANTOM® 240 SL	1-4 true leaf	-	-	-	-	-	C	-	-	-	-	-	-	-	-	-	-	-	C	-
PHANTOM® 240 SL + ARROW ALL IN™	1-6 true leaf	C	C	-	C	-	C	-	C	C	C	S	C	C	C	C	C	C	C	C
PHANTOM® 240 SL + LEOPARD®	2 leaf to early tillering	C	-	C ¹	C	C ²	C	C ¹	C	-	C	S	C	-	C	C	C	C	C ³	C
QUASAR®	1-4 true leaf	S	-	-	-	-	C	-	-	-	-	-	S	-	-	-	C	-	C	C
QUASAR® + ARROW ALL IN™	1-6 true leaf	C	C	-	C	-	C	-	C	C	C	S	C	C	C	C	C	C	C	C
QUASAR® + LEOPARD®	2 leaf to early tillering	C	-	C ¹	C	C ²	C	C ¹	C	-	C	S	C	-	C	C	C	C	C ³	C
PYTHON™	1-4 true leaf	C	-	-	-	-	C	S	-	C	-	-	C	C	-	C	C	C	C	C
SQUADRON®		C ^{6,7}	-	C ^{6,7}	-	-	C ^{6,7}	-	-	C ^{6,7}	-	-	-	-	-	-	-	-	C ^{6,7}	C ^{6,7}

^C control | ^S suppression | ¹ 2-5 leaf stage | ² 3 leaf to 4 leaf + 3 tillers | ³ 1-5 leaf up to 2 tillers | ⁴ non-Clearfield® varieties only | ⁵ non-triazine tolerant canola only
⁶ preplant incorporated with Treflan® Liquid EC herbicide | ⁷ preplant incorporated with Rival® EC herbicide

 INSECTICIDE

SILENCER® 120 EC

SILENCER® 120 EC controls pea aphid, pea leaf weevil, cutworm and grasshoppers in your peas.



ACTIVE INGREDIENT:

Lambda-cyhalothrin

CHEMISTRY GROUP:

Group 3

APPLICATION RATES AND PACKAGING:

- 17 – 51 ml/ac or 220 – 74 ac/3.785 L jug; consult the label for specific application rates
- 4 x 3.785 L jugs/case

REGISTERED PULSE CROPS:

- Beans
- Chickpeas
- Lentils
- Peas
- Soybeans

SILENCER® 120 EC is registered for use on more than 30 crops; refer to the label for more information.

HOW IT WORKS:

Fast-acting stomach and contact insecticide.

WATER VOLUME:

Ground: 40 – 80 L/ac
Aerial: 4 – 16 L/ac

PRE-HARVEST INTERVAL FOR PULSE CROPS:

21 days

GRAZING RESTRICTIONS:

Do not graze livestock within 3 days of application.



PEA APHID

Rate: 33-93mL/ac

Application Method: Ground or Aerial

Timing: Use higher rate when conditions favour rapid population increases.

Photo: CC BY SA 3.0 Image courtesy of Andreas Eichler



PEA LEAF WEEVIL

Rate: 33mL/ac

Application Method: Ground or Aerial

Timing: Make the first application after emergence but prior to the 5 to 6 node stage. Apply while the adults are still present on the plants, before egg laying begins.

Photo: © entomart



CUTWORM

Rate: 33mL/ac

Application Method: Ground or Aerial

Timing: Cutworm activity is greatest during the late evening and night. Application should be timed as close as possible to insect feeding activity

Photo: Public Domain



GRASSHOPPER

Rate: 33mL/ac

Application Method: Ground or Aerial

Timing: The need and timing of application should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.

Photo: CC BY 2.0 Image courtesy of Mike Bowler

FUNGICIDE TOPNOTCH™

A new broad spectrum, multi-mode of action option for control of dangerous diseases in pulses as well as cereal leaf diseases.



ACTIVE INGREDIENTS:

Azoxystrobin and propiconazole

CHEMISTRY GROUPS:

Group 3 (propiconazole) and Group 11 (azoxystrobin)

APPLICATION RATES AND PACKAGING:

- 2 x 8.6 L jugs/case

KEY BENEFITS:

- Multiple modes of action for resistance management
- Curative and preventative systemic action
- Can use on multiple crops, with exceptional crop safety
- Registered for both ground and aerial spraying

REGISTERED AND SUPPORTED CROPS:

- Barley
- Edible beans
- Peas
- Lentils
- Oats
- Rye
- Soybeans
- Triticale
- Wheat

KEY DISEASES CONTROLLED IN PEAS:

- Anthracnose
- Ascochyta blight
- Mycosphaerella blight
- Powdery mildew
- White mould*

LEAF DISEASES CONTROLLED IN CEREALS:

- Barley leaf rust
- Net and spot blotches
- Scald
- Septoria spot
- Stripe rust
- Tan spot
- Wheat leaf rust

* Suppression

HOW IT WORKS:

Used as both a curative and preventative fungicide, TOPNOTCH™ has broad-spectrum, systemic and contact activity.

APPLICATION TIMING AND CROP STAGING:

Crop	Diseases	Application Timing	Rate
Beans, Peas, Lentils, Soybeans	Mycosphaerella blight, Anthracnose	Make the first application at the first sign of disease. Apply the high rate only under conditions of high disease pressures. A second application 14 days later may be needed if conditions persist. Good spray coverage and canopy penetration are important for best results.	0.31–0.62 L/ac
	Powdery mildew, White mould (suppression only)		0.31 L/ac

See label for additional crop information

WATER VOLUME:

Ground: minimum 40 L/ac or 10 gal/ac Aerial: minimum 20 L/ac or 5 gal/ac

PRE-HARVEST INTERVALS:

- Cereals: 45 days
- Peas, beans & soybeans: 15 days
- Lentils: 30 days

GRAZING RESTRICTIONS:

No restrictions.



MYCOSPHAERELLA BLIGHT:

Damage: The pathogen produces irregular purple spots on leaves, stems, flowers and pods. These spots enlarge and coalesce, drying the tissues and causing blossom drop, stem blight and foot rot. Infected pods may produce infected seeds that are shrunken and discoloured. The impact on yield depends on the timing of the initial infection and weather conditions. When infections originate within the same field, disease can develop early, increasing the likelihood of damage. When initial infections occurs at the base of the plant, foot rot can occur, causing premature lodging and death of plant.

Life Cycle: Infections originate from the soil, stubble, or seed borne inoculum.

Photo: CC by SA 4.0 Image courtesy Puketichinna



POWDERY MILDEW

Damage: The pathogen causes white powdery spots, composed of conidia and mycelium, on lower leaves and stems. Severely affected crops become covered in a white mat of powdery spores. Infection can result in reduced yields, delayed maturity and reduced uptake of desiccants.

Life Cycle: Infection of pea crops usually begins at bloom (mid July) and continues well into the summer. Once the disease is present in a field, conidia produced in infected tissues can cause continued spread of the disease throughout the growing season.

Photo: CC BY 3.0 Image courtesy Clemson University



WHITE MOULD

Damage: The pathogen that causes white mould is the same pathogen that causes white mould on other broadleaf crops (canola, dry edible beans, soybeans, sunflower, etc...). Lesions and white fluffy mould can occur on all above ground plant parts. Lesions being as water-soaked spots but take on the characteristic white, bleached color as they age. White fluffy growth may occur on lesions, particularly when canopies are wet for long periods of time.



Life Cycle: The pathogen overwinters in the mouse-dropping size black fungal structures (sclerotia) at the end of the season. When adequate rain occurs in the spring and the soil is saturated (or near saturated), these sclerotia produce small mushrooms (apothecia) that release airborne spores. The infection process begins when spores land on flower petals, begin to digest them, and the subsequent fungal growth moves into healthy tissue. Consequently, peas are not at risk for infection until bloom begins. For infection to occur, the soils must be wet enough to produce the small mushrooms 1-2 weeks before bloom. White mould is very dependent on cool and wet conditions for disease to develop.

Photo: Courtesy of Canola Council of Canada



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