



ALFALFA RESOURCE GUIDE

Discover trusted insight and proven agronomic support for your alfalfa acres.

This guide brings together our top recommendations, product solutions, and regionally relevant strategies — all in one place.

Use the page numbers to the right to jump straight to the sections you need. From start to finish, it's built to deliver an answer for every acre.

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Alfalfa Crop Care Product Portfolio



ALFALFA OFFERING



Innvictis Crop Care® offers a variety of products for use on alfalfa at every stage in the growing process. Innqvictis Crop Care strives to provide an answer for every alfalfa acre by offering products at every stage in the growing cycle from burndown, in between cuttings and through harvest.

PRODUCT	AI	MOA	DESCRIPTION	COMPARABLE PRODUCT	USE RATE	TARGET PEST
PREEMERGE						
AVATAR™	Clethodim: 2 lb/gal	1: ACC Inhibitor (Acetyl CoA Carboxylase)	Most commonly used AI for post emergence grass herbicide.	Select® 2 EC	6 – 16 oz/A	Grasses
AVATAR™ S2™	Clethodim: 2 lb/gal	1: ACC Inhibitor (Acetyl CoA Carboxylase)	The only premium 2 lb/gal per gallon proprietary formulation clethodim based herbicide on the market.	Unique to Innqvictis Crop Care	6 – 16 oz/A	Grasses
DEVOUR®*	Paraquat: 3 lb/gal	22: Photosystem I Electron Diverter	Non selective, broad spectrum burndown herbicide.	Gramoxone®	1.7 – 2.7 pts/A	Broadleaves and Grasses
PAVILION 3.3 EC HERBICIDE	Pendimethalin: 3.3 lb/gal	3: Microtubule Assembly Inhibitor	A pendimethalin-based herbicide providing long-lasting, dependable, broad-spectrum residual weed control	Prowl® 3.3 EC	1.2 – 1.8 pts/A	Broadleaves and Grasses
PAVILION H2O	Pendimethalin: 3.8 lb/gal	3: Microtubule Assembly Inhibitor	Herbicide containing pendimethalin that controls grass and broadleaf weeds, improved by water based formulation featuring decreased odor and staining. Same reliable control of grass and broadleaf weeds as other pendimethalin based herbicides.	Prowl® H2O	1 – 1.5 pts/A	Broadleaves and Grasses
POST-EMERGE						
AVATAR™	Clethodim: 2 lb/gal	1: ACC Inhibitor (Acetyl CoA Carboxylase)	Most commonly used AI for post emergence grass herbicide.	Select® 2 EC	6 – 16 oz/A	Grasses
AVATAR™ S2™	Clethodim: 2 lb/gal	1: ACC Inhibitor (Acetyl CoA Carboxylase)	The only premium 2 lb/gal per gallon proprietary formulation clethodim based herbicide on the market.	Unique to Innqvictis Crop Care	6 – 16 oz/A	Grasses
DORMANCY AFTER ESTABLISHMENT						
AVATAR™	Clethodim: 2 lb/gal	1: ACC Inhibitor (Acetyl CoA Carboxylase)	Most commonly used AI for post emergence grass herbicide.	Select® 2 EC	6 – 16 oz/A	Grasses
AVATAR™ S2™	Clethodim: 2 lb/gal	1: ACC Inhibitor (Acetyl CoA Carboxylase)	The only premium 2 lb/gal per gallon proprietary formulation clethodim based herbicide on the market.	Unique to Innqvictis Crop Care	6 – 16 oz/A	Grasses
DEVOUR®*	Paraquat: 3 lb/gal	22: Photosystem I Electron Diverter	Non selective, broad spectrum burndown herbicide.	Gramoxone®	0.5 – 2 pts/A	Broadleaves and Grasses
DERIVE® 4L	Metribuzin: 3.8 lb/gal	5: Photosynthesis Inhibitor Site A	Metribuzin containing group 5 herbicide for use on a broad spectrum of grass and broadleaf weeds and can be used pre and post-emergence for foliar and soil applications.	Metricor™ 4F	½ – 2 pts/A	Broadleaves and Grasses
DERIVE® 75 DF	Metribuzin: 75%	5: Photosynthesis Inhibitor Site A	Metribuzin containing group 5 herbicide for use on a broad spectrum of grass and broadleaf weeds and can be used pre and post-emergence for foliar and soil applications.	Metricor™ 4F	⅓ – 1 ⅓ lb/A	Broadleaves and Grasses
PAVILION 3.3 EC HERBICIDE	Pendimethalin: 3.3 lb/gal	3: Microtubule Assembly Inhibitor	A pendimethalin-based herbicide providing long-lasting, dependable, broad-spectrum residual weed control	Prowl® 3.3 EC	1.2 – 4.8 qts/A	Broadleaves and Grasses
PAVILION H2O	Pendimethalin: 3.8 lb/gal	3: Microtubule Assembly Inhibitor	Herbicide containing pendimethalin that controls grass and broadleaf weeds, improved by water based formulation featuring decreased odor and staining. Same reliable control of grass and broadleaf weeds as other pendimethalin based herbicides.	Prowl® H2O	1.1 – 4.2 qts/A	Broadleaves and Grasses

* = RUP (Restricted Use Pesticide)



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PRODUCT	AI	MOA	DESCRIPTION	COMPARABLE PRODUCT	USE RATE	TARGET PEST
PAVILION MTZ	Pendimethalin: 2.9 lb/gal Metribuzin: 1.1 lb/gal	3: Microtubule Assembly Inhibitor 5: Photosynthesis Inhibitor Site A	A combination of two powerful active ingredients, pendimethalin and metribuzin, Pavilion MTZ delivers consistent residual control of a wide spectrum of broadleaf and grass weeds.	Tripzin ZC	29 - 116 oz/A	Broadleaves and Grasses
STREVIN™ 2EC	Carfentrazone-ethyl: 2 lb/gal	14: PPO Inhibitor	Versatile tool for preplant burndown, post emergence weed control and preharvest defoliation in a broad spectrum of crops.	Aim® EC	0.5 - 2.5 oz/A	Broadleaves
VARSITY® SC	Flumioxazin: 4 lb/gal	14: PPO Inhibitor	Broad spectrum herbicide for promoting strong residual on tough to control weeds.	Valor® EZ	2 - 4 oz/A	Broadleaves
BETWEEN CUTTINGS						
DEVOUR®**	Paraquat: 3 lb/gal	22: Photosystem I Electron Diverter	Non selective, broad spectrum burndown herbicide.	Gramoxone®	0.7 pts/A	Broadleaves and Grasses
PAVILION 3.3 EC HERBICIDE	Pendimethalin: 3.3 lb/gal	3: Microtubule Assembly Inhibitor	A pendimethalin-based herbicide providing long-lasting, dependable, broad-spectrum residual weed control	Prowl® 3.3 EC	1.2 - 4.8 qts/A	Broadleaves and Grasses
PAVILION H2O	Pendimethalin: 3.8 lb/gal	3: Microtubule Assembly Inhibitor	Herbicide containing pendimethalin that controls grass and broadleaf weeds, improved by water based formulation featuring decreased odor and staining. Same reliable control of grass and broadleaf weeds as other pendimethalin based herbicides.	Prowl® H2O	1.1 - 4.2 qts/A	Broadleaves and Grasses
STREVIN™ 2EC	Carfentrazone-ethyl: 2 lb/gal	14: PPO Inhibitor	Versatile tool for preplant burndown, post emergence weed control and preharvest defoliation in a broad spectrum of crops.	Aim® EC	0.5 - 2.5 oz/A	Broadleaves
INSECTICIDES (FOLIAR)						
INNOVIXIA™ EC	Indoxacarb: 15.84%	22A: Oxadiazines	Strong residual control of the toughest insects like alfalfa weevil and lepidoptera species.	Steward® EC	4.6 - 11.3 oz/A	Lepidoptera spp., Grasshoppers, Alfalfa Weevil
LANVEER™ LV*	Methomyl: 2.4 lb/gal	1A: Carbamates	A broad-spectrum insecticide that offers rapid knockdown of piercing and sucking insects and foliage feeders for use in a broad list of crops.	Lannate® LV	¾ - 3 pts/A	Aphids, Alfalfa Weevil, Lygus, Armyworms, Loopers
RAVAGE®**	Lambda-cyhalothrin: 1 lb/gal	3A: Pyrethroid	A broad-spectrum pyrethroid that controls insect and mite pests in an abundance of crops.	Silencer	1.92 - 3.84 oz/A	Armyworms, Looper spp., Cutworm spp., Grasshoppers, Alfalfa Weevil, Leafhopper spp., Threecornered Alfalfa Hopper, Bean Leaf Beetle, Aphids
RAVAGE® II*	Lambda-cyhalothrin: 2.19 lb/gal	3A: Pyrethroid	Broad-spectrum control of over 30 piercing and sucking insect species, powered by lambda-cyhalothrin. Crop versatility allows for applicators to have ease of use across many different cropping systems.	Silencer	0.96 - 1.92 oz/A	Armyworms, Corn Earworm, Loopers, Cutworm spp., Grasshoppers, Alfalfa Weevil, Leafhopper spp., Threecornered Alfalfa Hopper, Bean Leaf Beetle, Aphids
SEVER™ 0.5 G	Pyriproxyfen: 0.5%	7C: Juvenile Hormone Mimic	This hard-hitting insect growth regulator causes substantial colony mortality within 3-4 weeks by breaking the reproductive life cycle of ants. This pyriproxyfen-based insecticide is available for use on a multitude of crops.	Esteem® ANT BAIT	1.5 - 2 lb/A	Ants
VEXER® INSECTICIDE	Methoxyfenozide: 2 lb/gal	18: Ecdysone Receptor Agonist	Superior control of a broad spectrum of tough-to-control lepidopterous insects with long-lasting residual from the active methoxyfenozide.	Intrepid 2F®	4 - 10 oz/A	Armyworms, Alfalfa Caterpillar and Loopers, Webworms




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PRODUCT	AI	MOA	DESCRIPTION	COMPARABLE PRODUCT	USE RATE	TARGET PEST
FUNGICIDES (FOLIAR)						
IVC SUPER SIX LIQUID SULFUR	Elemental Sulfur: 6 lb/gal	M 02: Inorganic	IVC Super Six Liquid Sulfur is an elemental sulfur containing product that controls both troublesome diseases and mites. Powdery mildew and scab are no match.	Suffa®	0.5 - 3.3 gals/A	Mites, Lygidus
TREVO® FUNGICIDE	Azoxystrobin: 2.08 lb/gal	11: Qol (Strobilurin)	Trevo Fungicide is an azoxystrobin based broad spectrum fungicide for use on a wide range of crops including grain sorghum.	Quadris®	6 - 15.5 oz/A	Leaf Spot spp., Rust
VAUNT™ XL	Mefenoxam: 4 lb/gal	4: PA (Phenylamides)	Vaunt XL is a high load systemic fungicide for use on various crops to control diseases caused by members of the oomycete class of fungi. Vaunt XL offers a conveniently lower use rate and can help improve stand, root health, and crop vigor.	Ridomil Gold® SL	0.25 - 0.5 pt/A	Damping-off, Root Rot

PRODUCT	FUNCTIONS	DESCRIPTION	USE RATE
ADJUVANTS			
 ADVERSARY™	Spreader, Drift Control Agent, Penetrant	Adversary is a powerful spreader, drift control agent, and penetrant designed to enhance droplet size while still allowing for optimal spreading and adhesion on the leaf surface.	0.25% v/v
 AVIATOR™	Nonionic Surfactant, Spreader, Sticker, Penetrant, Humectant, Acidifier, Water Conditioning Agent	Aviator is a non-ionic surfactant, water conditioning agent, and acidifier. Aviator enhances coverage, adhesion, and penetration of spray solutions while protecting herbicides from hard water tie-up.	0.25% v/v
 VALKARIE™	Nonionic Surfactant, Spreader, Penetrant, Deposition Aid, Sticker	Valkarie is an NPE free non-ionic surfactant, formulated to improve deposition, spreading, and adhesion of a spray solution. Valkarie is able to soften a leaf's waxy cuticle, leading to increased penetration and movement to the site of action.	0.25% v/v
VENTURI®	Penetrant, Deposition Aid, Nonionic Surfactant	Venturi is a nonionic surfactant and highly refined paraffinic oil, which also includes functioning agents to improve penetration and deposition. Venturi maximizes the activity and effectiveness of soil pesticides.	1% v/v
VERIMAX® AMS	Water Conditioning Agent, Deposition Agent	Verimax AMS is a multi-functional water conditioner and deposition agent for post-emergent herbicide, defoliant, and desiccant sprays. Verimax AMS can contribute to more effective sprayer applications and increase pesticide performance.	0.25 - 0.75% v/v
VIXEN® AC-L	Water Conditioning Agent	Vixen AC-L is a convenient liquid water conditioner and amine compatible formulation. Vixen AC-L increases absorption and translocation and utilizes sequestering agents to condition water.	0.5 - 2 qts/100 gal