

CEREAL CROPS RESOURCE GUIDE

Discover trusted insight and proven agronomic support for your cereal crop acres.

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

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




PRODUCT	AI	MOA	DESCRIPTION	COMPARABLE PRODUCT	USE RATE	TARGET PEST
PREPLANT/PREEMERGE						
DEVOUR®*	Paraquat: 3 lb/gal	22: Photosystem I Electron Diverter	Non selective, broad spectrum burndown herbicide.	Gramoxone®	1.3 – 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	1.8 – 3.6 pts/A ¹	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	1.5 – 3 pts/A ¹	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	1 oz/A	Broadleaves
VARSITY® SC	Flumioxazin: 4 lb/gal	14: PPO Inhibitor	Broad spectrum herbicide for spring and fall burndown programs.	Valor® EZ	2 oz/A	Broadleaves
POSTEMERGE						
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	1.5 – 16 oz/A ¹	Broadleaves and Grasses (suppressed)
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	1 – 10 ² / ₃ oz/A ¹	Broadleaves and Grasses (suppressed)
GRAVITAS®	Solventless 2,4- D Ester: 5.5 lb/gal	4: Synthetic Auxin	Low-volatile, highly concentrated solventless, 2, 4-D ester herbicide that enters broadleaf weeds through the leaves and moves throughout both the roots and top growth	Weedone® 650	¹ / ₃ – 1 ¹ / ₃ pts/A	Broadleaves
HAVOC™ AMINE	2,4-D Amine: 3.8 lb/gal	4: Synthetic Auxin	2, 4-D amine herbicide for selective control of many broadleaf weeds.	Agri Star® Amine 4	² / ₃ – 1 ¹ / ₃ pts/A	Broadleaves
HAVOC™ LV-FOUR	2,4-D Ester: 3.8 lb/gal	4: Synthetic Auxin	2, 4-D ester herbicide for selective control of many broadleaf weeds.	Agri Star® LV4	¹ / ₂ – 2 pts/A	Broadleaves
HAVOC™ LV-SIX	2,4-D Ester: 5.5 lb/gal	4: Synthetic Auxin	A low volatility 6 lb 2,4-D ester formulation is easier to handle with its higher concentration.	Agri Star® LV6	¹ / ₃ – 1 ¹ / ₃ pts/A	Broadleaves
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	1.8 – 3.6 pts/A ¹	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® 3.3 EC	1.5 – 3 pts/A ¹	Broadleaves and Grasses
SAVANT®	Clopyralid: 3 lb/gal	4: Synthetic Auxin	Clopyralid powers performance in this post-emerge herbicide providing contact and residual activity for tough-to-control broadleaf weeds like Canada and musk thistle.	Stinger®	¹ / ₄ – ¹ / ₃ pts/A	Broadleaves
STAVE®	Fluroxypyr: 2.8 lb/gal	4: Synthetic Auxin	This selective, post-emerge fluroxypyr herbicide controls annual and perennial broadleaf weeds in wheat.	Starane® Ultra	0.3 – 0.7 pts/A	Broadleaves
STAVE PRO®	Clopyralid: 0.75 lb/gal Fluroxypyr: 0.75 lb/gal	4: Synthetic Auxin 4: Synthetic Auxin	Premium pre-mix of two active ingredients, fluroxypyr and clopyralid, that provides outstanding post-emerge control of more than 6 broadleaf weeds and suppression of an additional 15 weeds. It is highly active on broadleaf weeds that are ALS resistant and dicamba-tolerant.	WideMatch®	1 – 1.33 pts/A	Broadleaves



PRODUCT	AI	MOA	DESCRIPTION	COMPARABLE PRODUCT	USE RATE	TARGET PEST
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 – 1 oz/A	Broadleaves
TRIVANT®	2,4-D Ester: 2.01 lb/gal ² Bromoxynil: 1.6 lb/gal Fluroxypyr: 0.64 lb/gal	4: Synthetic Auxin 6: Photosynthesis Inhibitor Site B 4: Synthetic Auxin	Premium herbicide with three actives (2, 4-D, bromoxynil, and fluroxypyr) that offer outstanding broad spectrum broadleaf weed control in wheat.	Cleansweep™ D	1 – 1 ½ pts/A	Broadleaves
VERITAS® LV	DGA Dicamba: 4 lb/gal	4: Synthetic Auxin	Dicamba-based water-soluble herbicide for control and suppression of many annual, biennial, and perennial broadleaf weeds. Great option for pre-plant weed control and is highly active at low use rates.	Clarity®	2 – 4 oz/A	Broadleaves
INSECTICIDES (FOLIAR)						
CROSSOVER® PRO*	Propiconazole: 4 lb/gal Lambda-cyhalothrin: 1 lb/gal	3: DMI (Triazole) 3A: Pyrethroid	Combination of propiconazole and lambda cyhalothrin that provides insect control while adding disease protection at an economical cost to the producer.	Unique to Innvictis Crop Care	2 – 4 oz/A	Armyworms, Cutworm spp., Aphid spp., Grasshopper spp., Hessian Fly, Stink Bug Spp.
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 – 1 ½ pts/A	Armyworms, Cereal Leaf Beetle, Aphids
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, Cutworm spp., Aphid spp., Grasshopper spp., Hessian Fly, Stink Bug Spp.
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 Borer, Corn Earworm, Cutworm spp., Aphid spp., Grasshopper spp., Hessian Fly, Stink Bug Spp.
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
VENTRILIX® 2L*	Diflubenzuron: 2 lb/gal	15: Chitin Biosynthesis Inhibitor	This potent insect growth regulator controls pests by disrupting the regular molting process of insect larvae. It is effective against Lepidoptera and Diptera species and a wide variety of listed insect pests, and performs well when used in IPM programs.	Dimilin® 2L	1 – 4 oz/A	Grasshopper spp., Cereal Leaf Beetle
FUNGICIDES (FOLIAR)						
CROSSOVER® PRO*	Propiconazole: 4 lb/gal Lambda-cyhalothrin: 1 lb/gal	3: DMI (Triazole) 3A: Pyrethroid	Combination of propiconazole and lambda cyhalothrin that provides insect control while adding disease protection at an economical cost to the producer.	Unique to Innvictis Crop Care	2 – 4 oz/A	Leaf Blight, Rust, Fusarium Head Blight (Suppression)
INNIVEN™ P	Pyraclostrobin: 2.23 lb/gal Propiconazole: 1.91 lb/gal	11: QoI (Strobilurin) 3: DMI (Triazole)	Unique premix fungicide that provides disease control and plant health in many agricultural crops. Contains pyraclostrobin and propiconazole to enhance control over rusts and leaf spot and blight diseases.	Unique to Innvictis Crop Care	5 – 7.5 oz/A	Rusts, Septoria Leaf Blotch, Leaf Spot, Barley Stripe



PRODUCT	AI	MOA	DESCRIPTION	COMPARABLE PRODUCT	USE RATE	TARGET PEST
INNLIVEN™ TRZ	Pyraclostrobin: 2.26 lb/gal Tetraconazole: 1.24 lb/gal	11: Qol (Strobilurin) 3: DMI (Triazole)	A fast-acting, dual mode of action fungicide that controls over 30 major crop diseases. The combination of preventative and curative activity, proven disease control, and increased plant health is delivered.	Unique to Innictis Crop Care	5.5 – 10 oz/A	Rusts, Septoria Leaf Blotch, Septoria
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®	0.6 – 2.5 gals/A	Mites, Powdery Mildew
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 wheat.	Quadris®	4 – 12 oz/A	Rusts, Septoria Leaf Blotch, Tan Spot, Powdery Mildew
TREVO® P	Azoxystrobin: 1.18 lb/gal Propiconazole: 1.02 lb/gal	11: Qol (Strobilurin) 3: DMI (Triazole)	Trevo P combines the power of two active ingredients, azoxystrobin and propiconazole, which offer two unique modes of action for enhanced disease control.	Quilt Xcel®	7 – 14 oz/A	Leaf Blight, Rusts, Powdery Mildew
VIBE®	Tebuconazole: 3.6 lb/gal	3: DMI (Triazole)	Tebuconazole based fungicide from the triazole family that features curative and preventive capabilities. Can be sprayed on a diversity of crops and controls a broad spectrum of diseases.	TebuStar 3.6	4 oz/A	Rusts, Fusarium Head Blight (Suppression)
VIGIL®	Propiconazole: 3.6 lb/gal	3: DMI (Triazole)	Rusts, powdery mildew, leaf spots, and many other diseases are controlled in many different crops. Broad-spectrum and crop diversity powered by propiconazole.	Tilt®, Bumper® 41.8	2 – 4 oz/A	Rusts, Leaf Blight, Powdery Mildew, Fusarium Head Blight (Suppression)
PGRS						
ABREEV	Trinexapac-ethyl: 1 lb/gal	Plant Growth Regulator	Allows for the focus of plant production by shortening internodes of cereal crops. This plant growth regulator allows for enhanced, high-management cereal crops for improved crop performance.	Palisade EC	10.5 – 14.4 oz/A	N/A

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 nonionic 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 nonionic 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



2024 WHEAT EARLY POSTEMERGENCE PROGRAM

Simplot Grower Solutions has the personnel, equipment, products, and expertise to help protect your crop and maximize yield potential. The early season postemergence recommendations below combine the best pesticide applications and deliver critical nutrition to increase early season growth and vigor by protecting the seedling against both abiotic stresses and pests necessary to drive yield.



1.33 pts/A

Stave Pro® is a dual mode of action herbicide containing 2 proven auxin herbicides, clopyralid and fluroxypyr, that provides contact and residual control on tough broadleaf weeds like marestail, kochia, velvetleaf, and thistle species. Stave Pro can be sprayed in a variety of small grain crops like wheat, barley and oats. Stave Pro is highly effective on ALS and glyphosate resistant weeds.



.33 – 1.33 pts/A

Havoc™ LV-Six is a broad-spectrum, systemic herbicide for control of broadleaf weeds. Havoc LV-Six contains 2,4-D ester which provides superior control over other formulations of 2,4-D. Flexibility in burndown, with favorable rotation intervals and various in-crop application opportunities makes Havoc LV-Six a great option for any cropping system.



0.25% v/v or 1 qt/100 gallons

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.



2 oz/A

MavRx® is an innovative and unique blend of plant growth regulators backed by Innvictis BioScience's VaRx Technology. IBA and kinetin are plant growth regulators that promote root development, growth, and proliferation, as well as increase vegetative growth. The VaRx technology also stimulates root and shoot growth, improves nutrient absorption, and helps mitigate environmental or herbicide stresses.

