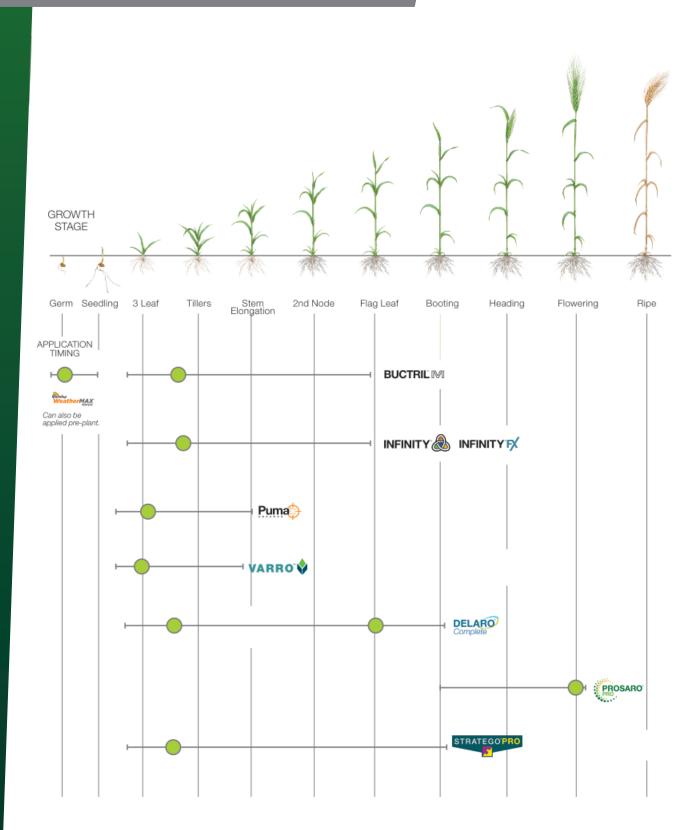
Cereal Crop Protection Guide



Bayer provides products to help you grow high-quality cereals, increase yield potential and continuously improve the ROI of your crop.

WHEAT CROP STAGING GUIDE





Note: Please consult the individual product labels to ensure that your specific pest is controlled/suppressed in the appropriate crop.

CEREAL FUNGICIDE SOLUTIONS

BAYER PRODUCT	DELARO [®] COMPLETE	PROSARO [®] PRO	STRATEGO® PRO	
	Contains the Group 7 active, fluopyram, which offers excellent protection in high-disease pressure situations	A multi-mode of action solution containing hree powerful active ingredients: fluopyram Group 7), prothioconazole (Group 3) and ebuconazole (Group 3) Broad-spectrum, economical disease and residual protection for your cereal soybeans and corn		
FEATURES & STRENGTHS	Three modes of action (Groups 3, 7, 11) that work in tandem for added protection	Delivers exceptional protection from fusarium head blight (FHB), late-season leaf disease and reduces deoxynivalenol (DON)	Provides control of powdery mildew, rust, septoria and tan spot	
	Broad-spectrum systemic fungicide delivering excellent control of all major leaf diseases including blotch (septoria, net), rusts (leaf, stem, stripe), crown rust and tan spot	Provides excellent control of all major leaf diseases including blotch (glume, leaf, net, spot), rusts (leaf, stem, stripe) and tan spot		
	Application flexibility – can be applied at herbicide timing or flag leaf timing	Helps deliver a healthy green crop without impacting maturity		
BEST USED WHEN LOOKING FOR	You're facing early season disease and are looking to tank mix a herbicide and fungicide at herbicide timing. Or use Delaro Complete at flag leaf timing for long-lasting, broad-spectrum foliar disease protection, followed by Prosaro PRO fungicide at head timing for increased long-term disease protection	When you need the best protection when facing the highest level of disease	You're facing early season disease and are looking to tank mix a herbicide and fungicide at herbicide timing	
MAIN CROPS*	WHEAT (SPRING, WINTER), BARLEY	WHEAT (SPRING, WINTER), BARLEY	WHEAT (SPRING, WINTER), BARLEY	
FUNGICIDE GROUP(S)	3 (prothioconazole), 7 (fluopyram), 11 (trifloxystrobin)	3 (prothioconazole), 3 (tebuconazole), 7 (fluopyram)	3 (prothioconozole), 11 (trifloxystrobin)	
STAGING	From tillering up to flag leaf emergence Winter wheat: Single application: 4-leaf stage up to flag leaf (GS 14-47). Two applications: First application: 4-leaf stage to flag leaf stage. Second application: not within 14 days of the first application and prior to head emergence.	When at least 75% of the wheat heads on the main stem are fully emerged to when 50% of the heads on the main stem are in flower. Optimal application timing is when first flowers emerge on the main heads.	Apply from tillering up to flag leaf emergence	
RAIN FASTNESS	1 hour	1 hour	1 hour	
FORMULATION	Suspension concentrate	Suspension concentrate	Suspension concentrate	
RATE	Barley, wheat (spring): 237 mL/ac. (586 mL/ha) Wheat (winter): 189 to 237 mL/ac. (468 to 586 mL/ha)	300 to 400 mL/ac. (750 to 1,000 mL/ha) Apply with a non-ionic surfactant, for example Agral® 90 or AgSurf®, at 0.125% v/v	Barley, wheat (spring): 230 mL/ac. (572 mL/ha) Wheat (winter): 177 to 230 mL/ac. (440 to 572 mL/ha)	
PACKAGING	7.11 L jug (30 acres) 2 x 7.11 L jugs/case (80 acres) 113.8 L (480 acres)	6.07 L jug (20 acres) 2 x 6.07 L jugs/case (40 acres) 97.17 L (320 acres)	7.1 L jug (30 acres for barley and spring wheat; 30 to 40 acres for winter wheat) 2 x 7.1 L jugs/case (60 acres) 113.6 L (480 acres)	
DISEASES	DELARO COMPLETE	PROSARO PRO	STRATEGO PRO	
USARIUM HEAD BLIGHT		Suppression		
CALD	Control	Control	Control	
EPTORIA LEAF BLOTCH	Control	Control	Control	
LUME BLOTCH		Control		
ET BLOTCH	Control	Control	Control	
POT BLOTCH		Control		
OWDERY MILDEW	Control	Control	Control	
AN SPOT	Control	Control	Control	
EAF RUST	Control	Control	Control	
TEM RUST	Control	Control	Control	
TRIPE RUST	Control	Control	Control	

* See product labels for a complete list of cereal crops.



FEATURES & STRENGTHS P FEATURES & STRENGTHS P BEST USED WHEN LOOKING FOR P MAIN CROPS* P HERBICIDE GROUP(S) P I P STAGING P RAIN FASTNESS P RATE P PACK AGING P	PUMA® ADVANCE An affordable solution with control of barnyard grass, wild oats and green and yellow foxtail Wide window of application (1 to 6 leaves on main stem plus 3 tillers) Superior crop safety in barley and wheat Safely move from wheat to barley without having to clean out your sprayer Grass control when you don't have Group 1 resistance WHEAT (SPRING, WINTER) 1 (fenoxaprop-p-ethyl) 1-6 leaf + 3 tillers 1 hour Emulsifiable concentrate 0.412 L/ac. (1.02 L/ha) 8.25 L jug (20 acres) 2 x 8.25 L jugs/case (40 acres) 2 x 8.25 L jugs/case (40 acres) Control Control Control PUMA ADVANCE	VARRO® + AMS1 Outstanding control of wild oats and other problematic grass weeds A powerful early-weed removal specialist, offering effective resistance management A "Broadleaf Booster" - delivering activity on selected broadleaf weeds. This enhances the performance of all broadleaf herbicides where Varro is a permissible tank mix Keellent crop safety on spring and winter wheat Wild oats are your target weed and you want a bump-up on broadleaf control VHEAT (SPRING, WINTER) 2 (thiencarbazone-methyl) 1 to 6 leaves on main stem, plus 3 tillers but prior to jointing (presence of first node) Winter wheat: Apply either in the fail or spring when the majority of plants have one lead to full tillering, but prior to jointing (presence of first node) 1 hour Liquid OD formulation 200 mL/ac. (S00 mL/ha) 8 L jug (40 acres) concentrate 2 x 8 L jugs/case (80 acres) VARRO + AMS1 VARRO = Control Suppression + Suppression + Suppression +	BUCTRIL® M Controls 29 different broadleaf weeds with excellent crop safety Continues to be an effective, crop-safe option Available in bulk for added convenience Outstanding tank mix flexibility. Excellent tank mix partner with Puma Advance and Varro WEEAT (SPRING, WINTER) BARLEY, OATS 4 (MCPA), 6 (bromoxynil) 2 leaf to early flag 1 hour Liquid-emulsifiable concentrate 400 mL/ac. (1 L/ha) 8 L jug (20 acres) 2 x 8 L jugs/case (40 acres) 400 L (1,000 acres) 2 x 8 L jugs/case (40 acres) 400 L (1,000 acres) 2 x 8 L jugs/case (40 acres) 400 L (1,000 acres)	INFINITY® + AMS1 Controls a wide range of the toughest broadleaf weeds including Canada fleabane, chickweed, lamb's-quarters and wild buckwheat Dual chemistries (Groups 6 and 27) use both contact and systemic activity Powered by pyrasulfotole, activity is visible within days Available in bulk for added convenience Broadleaf weeds need to be sprayed in either the fall or spring, and you're facing tough-to-control Canada fleabane and chickweed WHEAT (SPRING, WINTER) BARLEY (SPRING) 6 (bromoxynil), 27 (pyrasulfatole) 1 leaf before flag unrolled 1 hour Liquid-emulsifiable concentrate 335 mL/ac. (830 mL/ha) 6.7 L jug (20 acres) 2 x 6.7 L jugs/case (40 acres) 335 L (1,000 acres) 2 x 6.7 L jugs/case (40 acres) 335 L (1,000 acres)	INFINITY® FX + AMS' Contains three herbicide Groups providing both contact and systemic activity Infinity plus a Group 4 herbicide. Fast-acting performance that is visible within days of application Exceptional resistance management – with the combination of three different herbicide Groups, there is increased herbicide activity on the same weed species Wide window of application and excellent crop safety Wide window of application and excellent crop safety Broadleaf weeds need to be sprayed in either the fall or spring, and you're facing tough-to-control Canada fleabane and chickweed 4 (fluroxypyr), 6 (bromoxynil), 27 (pyrasulfatole) 4 (fluroxypyr), 6 (bromoxynil), 27 (pyrasulfatole) 1 hour Liquid-emulsifiable concentrate 4000 mL/ac. (1 L/ha) 8.1 L jug (20 acres) 2 x 8.1 L jugs/case (40 acres) 405 L (1,000 acres) INFINITY FX + AMS ¹
FEATURES & STRENGTHS F BEST USED WHEN LOOKING FOR G MAIN CROPS* I HERBICIDE GROUP(S) I STAGING I FORMULATION I PACKAGING G BARNYARD GRASS I GRASS WEEDS I BARNYARD GRASS I CANARY SEED I IPARESIA DARNEL I IPARSIA DARNEL I WILD OATS I IPACADLEAF WEEDS I	wild oats and green and yellow foxtail Wide window of application (1 to 6 leaves on main stem plus 3 tillers) Superior crop safety in barley and wheat Safely move from wheat to barley without having to clean out your sprayer Grass control when you don't have Group 1 resistance WHEAT (SPRING, WINTER) BARLEY (SPRING) 1 (fenoxaprop-p-ethyl) 1-6 leaf + 3 tillers 1 hour Enulsifiable concentrate 0.412 L/ac. (1.02 L/ha) 8.25 L jug (20 acres) 2 x 8.25 L jugs/case (40 acres) PUMA ADVANCE Control Control Control Control	grass weeds A powerful early-weed removal specialist, offering effective resistance management A "Broadleaf Booster" – delivering activity on selected broadleaf weeds. This enhances the performance of all broadleaf herbicides where Varro is a permissible tank mix Excellent crop safety on spring and winter wheat Wild oats are your target weed and you want a bump-up on broadleaf control WHEAT (SPRING, WINTER) (thiencarbazone-methyl) 1 to 6 leaves on main stem, plus 3 tillers but prior to jointing (presence of first node) Winter wheat: Apply either in the fall or spring when the majority of plants have one leaf to full tillering, but prior to jointing (presence of first node) I hour Liquid OD formulation 200 mL/ac. (500 mL/ha) Liquid QD formulation Control Con	crop safety Continues to be an effective, crop-safe option Available in bulk for added convenience Outstanding tank mix flexibility. Excellent tank mix partner with Puma Advance and Varro Weeds are small, and an economical broadleaf solution is needed WHEAT (SPRING, WINTER) BARLEY, OATS 4 (MCPA), 6 (bromoxynil) 2 leaf to early flag 1 hour Liquid-emulsifiable concentrate 400 mL/ac. (1 L/ha) 8 L jug (20 acres) 2 x 8 L jugs/case (40 acres) 400 L (1,000 acres)	including Canada fleabane, chickweed, lamb's-quarters and wild buckwheat Dual chemistries (Groups 6 and 27) use both contact and systemic activity Powered by pyrasulfotole, activity is visible within days Available in bulk for added convenience Broadleaf weeds need to be sprayed in either the fall or spring, and you're facing tough-to-control Canada fleabane and chickweed WHEAT (SPRING, WINTER) BARLEY (SPRING) 6 (bromoxynil), 27 (pyrasulfatole) 1 leaf before flag unrolled 1 nour Liquid-emulsifiable concentrate 335 mL/ac. (830 mL/ha) 6.7 L jug (20 acres) 2 x 6.7 L jugs/case (40 acres) 335 L (1,000 acres)	and systemic activity Infinity plus a Group 4 herbicide. Fast-acting performance that is visible within days of application Exceptional resistance management – with the combination of three different herbicide Groups, there is increased herbicide activity on the same weed species Wide window of application and excellent crop safety Broadleaf weeds need to be sprayed in either the fall or spring, and you're facing tough-to-control Canada fleabane and chickweed WHEAT (SPRING, WINTER) BARLEY (SPRING) 4 (fluroxypyr), 6 (bromoxynil), 27 (pyrasulfatole) 2 leaf before flag unrolled 1 hour Liquid-emulsifiable concentrate 400 mL/ac. (1 L/ha) 8.1 L jug (20 acres) 2 x 8.1 L jugs/case (40 acres) 405 L (1,000 acres)
FEATURES & STRENGTHS F BEST USED WHEN LOOKING FOR F BEST USED WHEN LOOKING FOR F MAIN CROPS* F HERBICIDE GROUP(S) 1 STAGING F FORMULATION F FORMULATION F PACKAGING F BARNYARD GRASS F CANARY SEED F GRASS WEEDS F BARNYARD GRASS F CANARY SEED F GREN FOXTAIL F JAPANESE BROME (SPRING/FALL GERMINATED) F PERSIAN DARNEL F WILD OATS F YELLOW FOXTAIL F BROADLEAF WEEDS F	plus 3 tillers) Superior crop safety in barley and wheat Safely move from wheat to barley without having to clean out your sprayer Grass control when you don't have Group 1 resistance WHEAT (SPRING, WINTER) BARLEY (SPRING) 1 (fenoxaprop-p-ethyl) 1-6 leaf + 3 tillers 1 hour Emulsifiable concentrate 0.412 L/ac. (1.02 L/ha) 8.25 L jug (20 acres) 2 x 8.25 L jugs/case (40 acres) 2 x 8.25 L jugs/case (40 acres) Control Contr	resistance management A "Broadleaf Booster" – delivering activity on selected broadleaf weeds. This enhances the performance of all broadleaf herbicides where Varro is a permissible tank mix Excellent crop safety on spring and winter wheat Wild oats are your target weed and you want a bump-up on broadleaf control WHEAT (SPRING, WINTER) 2 (thiencarbazone-methyl) 1 to 6 leaves on main stem, plus 3 tillers but prior to jointing (presence of first node) Winter wheat: Apply either in the fall or spring when the majority of plants have one leaf to full tillering, but prior to jointing (presence of first node) 1 hour Liquid OD formulation 200 mL/ac. (500 mL/ha) 8 L jug (40 acres) concentrate 2 x 8 L jugs/case (80 acres) VARRO + AMS ¹ VARRO + AMS ¹ Control Control Suppression + Suppression +	Available in bulk for added convenience Outstanding tank mix flexibility. Excellent tank mix partner with Puma Advance and Varro Weeds are small, and an economical broadleaf solution is needed WHEAT (SPRING, WINTER) BARLEY, OATS 4 (MCPA), 6 (bromoxynil) 2 leaf to early flag 1 hour Liquid-emulsifiable concentrate 400 mL/ac. (1 L/ha) 8 L jug (20 acres) 2 x 8 L jugs/case (40 acres) 400 L (1,000 acres)	and systemic activity and systemic activity Powered by pyrasulfotole, activity is visible within days Available in bulk for added convenience Broadleaf weeds need to be sprayed in either the fall or spring, and you're facing tough-to-control Canada fleabane and chickweed WHEAT (SPRING, WINTER) BARLEY (SPRING) 6 (bromoxynil), 27 (pyrasulfatole) 1 leaf before flag unrolled 1 hour Liquid-emulsifiable concentrate 335 mL/ac. (830 mL/ha) 6.7 L jug (20 acres) 2 x 6.7 L jugs/case (40 acres) 335 L (1,000 acres)	that is visible within days of application Exceptional resistance management – with the combination of three different herbicide Groups, there is increased herbicide activity on the same weed species Wide window of application and excellent crop safety Broadleaf weeds need to be sprayed in either the fall or spring, and you're facing tough-to-control Canada fleabane and chickweed WHEAT (SPRING, WINTER) BARLEY (SPRING) 4 (fluroxypyr), 6 (bromoxynil), 27 (pyrasulfatole) 2 leaf before flag unrolled 1 hour Liquid-emulsifiable concentrate 400 mL/ac. (1 L/ha) 8.1 L jug (20 acres) 2 x 8.1 L jugs/case (40 acres) 405 L (1,000 acres)
BEST USED WHEN LOOKING FOR I MAIN CROPS* I HERBICIDE GROUP(S) I STAGING I FORMULATION I FORMULATION I PACKAGING I DACKAGING I I	Safely move from wheat to barley without having to clean out your sprayer Grass control when you don't have Group 1 resistance WHEAT (SPRING, WINTER) BARLEY (SPRING) 1 (fenoxaprop-p-ethyl) 1 -6 leaf + 3 tillers 1 hour 1 hour Emulsifiable concentrate 0.412 L/ac. (1.02 L/ha) 8.25 L jug (20 acres) 2 x 8.25 L jugs/case (40 acres)	broadleaf weeds. This enhances the performance of all broadleaf herbicides where Varro is a permissible tank mix Excellent crop safety on spring and winter wheat WHEAT (SPRING, WINTER) 2 (thiencarbazone-methyl) 1 to 6 leaves on main stem, plus 3 tillers but prior to jointing (presence of first node) Winter wheat: Apply either in the fall or spring when the majority of plants have one leaf to full tillering, but prior to jointing (presence of first node) 1 hour Liquid OD formulation 200 mL/ac. (500 mL/ha) 8 L jug (40 acres) concentrate 2 x 8 L jugs/case (80 acres) VARRO + AMS ¹ Control Control Suppression + Suppression +	Outstanding tank mix flexibility. Excellent tank mix partner with Puma Advance and Varro Weeds are small, and an economical broadleaf solution is needed WHEAT (SPRING, WINTER) BARLEY, OATS 4 (MCPA), 6 (bromoxynil) 2 leaf to early flag 1 hour Liquid-emulsifiable concentrate 400 mL/ac. (1 L/ha) 8 L jug (20 acres) 2 x 8 L jugs/case (40 acres) 400 L (1,000 acres)	Available in bulk for added convenience Broadleaf weeds need to be sprayed in either the fall or spring, and you're facing tough-to-control Canada fleabane and chickweed WHEAT (SPRING, WINTER) BARLEY (SPRING) 6 (bromoxynil), 27 (pyrasulfatole) 1 leaf before flag unrolled 1 hour Liquid-emulsifiable concentrate 335 mL/ac. (830 mL/ha) 6.7 L jug (20 acres) 2 x 6.7 L jugs/case (40 acres) 335 L (1,000 acres)	of three different herbicide Groups, there is increased herbicide activity on the same weed species Wide window of application and excellent crop safety Broadleaf weeds need to be sprayed in either the fall or spring, and you're facing tough-to-control Canada fleabane and chickweed WHEAT (SPRING, WINTER) BARLEY (SPRING) 4 (fluroxypyr), 6 (bromoxynil), 27 (pyrasulfatole) 2 leaf before flag unrolled 1 hour Liquid-emulsifiable concentrate 400 mL/ac. (1 L/ha) 8.1 L jug (20 acres) 2 x 8.1 L jugs/case (40 acres) 405 L (1,000 acres)
BEST USED WHEN LOOKING FOR I MAIN CROPS* I HERBICIDE GROUP(S) I STAGING I RAIN FASTNESS I FORMULATION I RATE I PACKAGING I BARNYARD GRASS I GRASS WEEDS I BARNYARD GRASS I GRASS WEEDS I WILD OATS I YELLOW FOXTAIL I BROADLEAF WEEDS I	Clean out your sprayer Grass control when you don't have Group 1 resistance UHEAT (SPRING, WINTER) BARLEY (SPRING) 1 (fenoxaprop-p-ethyl) 1-6 leaf + 3 tillers 1 hour Emulsifiable concentrate 0.412 L/ac. (1.02 L/ha) 8.25 L jug (20 acres) 2 x 8.25 L jugs/case (40 acres) 2 x 8.25 L jugs/case (40 acres) Control Control Control Control Control Control	Wild oats are your target weed and you want a bump-up on broadleaf control WHEAT (SPRING, WINTER) 2 (thiencarbazone-methyl) 1 to 6 leaves on main stem, plus 3 tillers but prior to jointing (presence of first node) Winter wheat: Apply either in the fall or spring when the majority of plants have one leaf to full tillering, but prior to jointing (presence of first node) 1 hour Liquid OD formulation 200 mL/ac. (500 mL/ha) & L jug (40 acres) concentrate 2 x 8 L jugs/case (80 acres) VARRO + AMS ¹ Control Control Suppression + Suppression Control	 with Puma Advance and Varro Weeds are small, and an economical broadleaf solution is needed WHEAT (SPRING, WINTER) BARLEY, OATS 4 (MCPA), 6 (bromoxynil) 2 leaf to early flag 1 hour Liquid-emulsifiable concentrate 400 mL/ac. (1 L/ha) 8 L jug (20 acres) 2 x 8 L jugs/case (40 acres) 400 L (1,000 acres) 	Broadleaf weeds need to be sprayed in either the fall or spring, and you're facing tough-to-control Canada fleabane and chickweed WHEAT (SPRING, WINTER) BARLEY (SPRING) 6 (bromoxynil), 27 (pyrasulfatole) 1 leaf before flag unrolled 1 hour Liquid-emulsifiable concentrate 335 mL/ac. (830 mL/ha) 6.7 L jug (20 acres) 2 x 6.7 L jugs/case (40 acres) 335 L (1,000 acres)	Broadleaf weeds need to be sprayed in either the fall or spring, and you're facing tough-to-control Canada fleabane and chickweed WHEAT (SPRING, WINTER) BARLEY (SPRING) 4 (fluroxypyr), 6 (bromoxynil), 27 (pyrasulfatole) 2 leaf before flag unrolled 1 hour Liquid-emulsifiable concentrate 400 mL/ac. (1 L/ha) 8.1 L jug (20 acres) 2 x 8.1 L jugs/case (40 acres) 405 L (1,000 acres)
MAIN CROPS* I HERBICIDE GROUP(S) I STAGING I RAIN FASTNESS I FORMULATION I RATE I PACKAGING I BARNYARD GRASS I GREEN FOXTAIL I JAPANESE BROME (SPRING/FALL GERMINATED) I PERSIAN DARNEL I WILD OATS I YELLOW FOXTAIL I BROADLEAF WEEDS I	WHEAT (SPRING, WINTER) BARLEY (SPRING) 1 (fenoxaprop-p-ethyl) 1-6 leaf + 3 tillers 1 hour Emulsifiable concentrate 0.412 L/ac. (1.02 L/ha) 8.25 L jug (20 acres) 2 x 8.25 L jugs/case (40 acres) PUMA ADVANCE Control Control Control Control Control Control Control	on broadleaf control WHEAT (SPRING, WINTER) 2 (thiencarbazone-methyl) 1 to 6 leaves on main stem, plus 3 tillers but prior to jointing (presence of first node) Winter wheat: Apply either in the fall or spring when the majority of plants have one leaf to full tillering, but prior to jointing (presence of first node) 1 hour Liquid OD formulation 200 mL/ac. (500 mL/ha) 8 L jug (40 acres) concentrate 2 x 8 L jugs/case (80 acres) VARRO + AMS1 Control Control Suppression + Suppression Suppression Control	is needed WHEAT (SPRING, WINTER) BARLEY, OATS 4 (MCPA), 6 (bromoxynil) 2 leaf to early flag 1 hour Liquid-emulsifiable concentrate 400 mL/ac. (1 L/ha) 8 L jug (20 acres) 2 x 8 L jugs/case (40 acres) 400 L (1,000 acres)	or spring, and you're facing tough-to-control Canada fleabane and chickweed WHEAT (SPRING, WINTER) BARLEY (SPRING) 6 (bromoxynil), 27 (pyrasulfatole) 1 leaf before flag unrolled 1 hour Liquid-emulsifiable concentrate 335 mL/ac. (830 mL/ha) 6.7 L jug (20 acres) 2 x 6.7 L jugs/case (40 acres) 335 L (1,000 acres)	or spring, and you're facing tough-to-control Canada fleabane and chickweed WHEAT (SPRING, WINTER) BARLEY (SPRING) 4 (fluroxypyr), 6 (bromoxynil), 27 (pyrasulfatole) 2 leaf before flag unrolled 1 hour Liquid-emulsifiable concentrate 400 mL/ac. (1 L/ha) 8.1 L jug (20 acres) 2 x 8.1 L jugs/case (40 acres) 405 L (1,000 acres)
HERBICIDE GROUP(S)1STAGING1RAIN FASTNESS1FORMULATION1RATE2PACKAGING2BARNYARD GRASS2CANARY SEED3GREEN FOXTAIL3JAPANESE BROME (SPRING/FALL GERMINATED)4PERSIAN DARNEL4WILD OATS4YELLOW FOXTAIL5BROADLEAF WEEDS4	ARLEY (SPRING) 1 (fenoxaprop-p-ethyl) 1-6 leaf + 3 tillers 1 hour Emulsifiable concentrate 0.412 L/ac. (1.02 L/ha) 8.25 L jug (20 acres) 2 x 8.25 L jugs/case (40 acres) PUMA ADVANCE Control Co	2 (thiencarbazone-methyl) 1 to 6 leaves on main stem, plus 3 tillers but prior to jointing (presence of first node) Winter wheat: Apply either in the fall or spring when the majority of plants have one leaf to full tillering, but prior to jointing (presence of first node) 1 hour Liquid OD formulation 200 mL/ac. (500 mL/ha) 8 L jug (40 acres) concentrate 2 x 8 L jugs/case (80 acres) VARRO + AMS ¹ Control Control Suppression + Suppression Control	BARLEY, OATS 4 (MCPA), 6 (bromoxynil) 2 leaf to early flag 1 hour Liquid-emulsifiable concentrate 400 mL/ac. (1 L/ha) 8 L jug (20 acres) 2 x 8 L jugs/case (40 acres) 400 L (1,000 acres)	BARLEY (SPRING) 6 (bromoxynil), 27 (pyrasulfatole) 1 leaf before flag unrolled 1 hour Liquid-emulsifiable concentrate 335 mL/ac. (830 mL/ha) 6.7 L jug (20 acres) 2 x 6.7 L jugs/case (40 acres) 335 L (1,000 acres)	BARLEY (SPRING) 4 (fluroxypyr), 6 (bromoxynil), 27 (pyrasulfatole) 2 leaf before flag unrolled 1 hour Liquid-emulsifiable concentrate 400 mL/ac. (1 L/ha) 8.1 L jug (20 acres) 2 x 8.1 L jugs/case (40 acres) 405 L (1,000 acres)
STAGING I RAIN FASTNESS I FORMULATION I RATE I PACKAGING I PACKAGING I GRASS WEEDS I BARNYARD GRASS I CANARY SEED I GREEN FOXTAIL I VILD OATS I VILLOW FOXTAIL I BROADLEAF WEEDS I	1-6 leaf + 3 tillers 1 hour Emulsifiable concentrate 0.412 L/ac. (1.02 L/ha) 8.25 L jug (20 acres) 2 x 8.25 L jugs/case (40 acres) PUMA ADVANCE Control Control Control	1 to 6 leaves on main stem, plus 3 tillers but prior to jointing (presence of first node) Winter wheat: Apply either in the fall or spring when the majority of plants have one leaf to full tillering, but prior to jointing (presence of first node) 1 hour Liquid OD formulation 200 mL/ac. (500 mL/ha) & L jug (40 acres) concentrate 2 x 8 L jugs/case (80 acres) VARRO + AMS1 Control Control Suppression + Suppression Control	2 leaf to early flag 1 hour Liquid-emulsifiable concentrate 400 mL/ac. (1 L/ha) 8 L jug (20 acres) 2 x 8 L jugs/case (40 acres) 400 L (1,000 acres)	1 leaf before flag unrolled 1 hour Liquid-emulsifiable concentrate 335 mL/ac. (830 mL/ha) 6.7 L jug (20 acres) 2 x 6.7 L jugs/case (40 acres) 335 L (1,000 acres)	2 leaf before flag unrolled 1 hour Liquid-emulsifiable concentrate 400 mL/ac. (1 L/ha) 8.1 L jug (20 acres) 2 x 8.1 L jugs/case (40 acres) 405 L (1,000 acres)
RAIN FASTNESS 1 FORMULATION E RATE 2 PACKAGING 2 CANARY SEED 1 GREEN FOXTAIL 1 JAPANESE BROME (SPRING/FALL GERMINATED) 1 PERSIAN DARNEL 1 WILD OATS 1 YELLOW FOXTAIL 1 BROADLEAF WEEDS 1	1 hour Emulsifiable concentrate 0.412 L/ac. (1.02 L/ha) 8.25 L jug (20 acres) 2 x 8.25 L jugs/case (40 acres) PUMA ADVANCE Control Control Control	(presence of first node) Winter wheat: Apply either in the fall or spring when the majority of plants have one leaf to full tillering, but prior to jointing (presence of first node) 1 hour Liquid OD formulation 200 mL/ac. (500 mL/ha) 8 L jug (40 acres) concentrate 2 x 8 L jugs/case (80 acres) VARRO + AMS ¹ Control Control Suppression + Suppression Control	1 hour Liquid-emulsifiable concentrate 400 mL/ac. (1 L/ha) 8 L jug (20 acres) 2 x 8 L jugs/case (40 acres) 400 L (1,000 acres)	1 hour Liquid-emulsifiable concentrate 335 mL/ac. (830 mL/ha) 6.7 L jug (20 acres) 2 x 6.7 L jugs/case (40 acres) 335 L (1,000 acres)	1 hour Liquid-emulsifiable concentrate 400 mL/ac. (1 L/ha) 8.1 L jug (20 acres) 2 x 8.1 L jugs/case (40 acres) 405 L (1,000 acres)
FORMULATION F RATE C PACKAGING C BARNYARD GRASS C GREEN FOXTAIL C JAPANESE BROME (SPRING/FALL GERMINATED) I VILD OATS I VELLOW FOXTAIL I BROADLEAF WEEDS I	Emulsifiable concentrate 0.412 L/ac. (1.02 L/ha) 8.25 L jug (20 acres) 2 x 8.25 L jugs/case (40 acres) Control Control Control Control Control Control	Liquid OD formulation 200 mL/ac. (500 mL/ha) & L jug (40 acres) concentrate 2 x 8 L jugs/case (80 acres) VARR0 + AMS1 Control Control Control Suppression + Suppression Control	Liquid-emulsifiable concentrate 400 mL/ac. (1 L/ha) 8 L jug (20 acres) 2 x 8 L jugs/case (40 acres) 400 L (1,000 acres)	Liquid-emulsifiable concentrate 335 mL/ac. (830 mL/ha) 6.7 L jug (20 acres) 2 x 6.7 L jugs/case (40 acres) 335 L (1,000 acres)	Liquid-emulsifiable concentrate 400 mL/ac. (1 L/ha) 8.1 L jug (20 acres) 2 x 8.1 L jugs/case (40 acres) 405 L (1,000 acres)
RATE R PACKAGING R DACKAGING R GRASS WEEDS R BARNYARD GRASS R CANARY SEED R GREEN FOXTAIL R JAPANESE BROME (SPRING/FALL GERMINATED) R VILD OATS R VELLOW FOXTAIL R BROADLEAF WEEDS R	0.412 L/ac. (1.02 L/ha) 8.25 L jug (20 acres) 2 x 8.25 L jugs/case (40 acres) PUMA ADVANCE Control Control Control	200 mL/ac. (500 mL/ha) 8 L jug (40 acres) concentrate 2 x 8 L jugs/case (80 acres) VARRO + AMS ¹ Control Control Control Suppression + Suppression Control	400 mL/ac. (1 L/ha) 8 L jug (20 acres) 2 x 8 L jugs/case (40 acres) 400 L (1,000 acres)	335 mL/ac. (830 mL/ha) 6.7 L jug (20 acres) 2 x 6.7 L jugs/case (40 acres) 335 L (1,000 acres)	400 mL/ac. (1 L/ha) 8.1 L jug (20 acres) 2 x 8.1 L jugs/case (40 acres) 405 L (1,000 acres)
NATE (PACKAGING 2 PACKAGING 2 GRASS WEEDS 2 BARNYARD GRASS 2 CANARY SEED 3 GREEN FOXTAIL 3 JAPANESE BROME (SPRING/FALL GERMINATED) 4 PERSIAN DARNEL 4 WILD OATS 4 YELLOW FOXTAIL 5 BROADLEAF WEEDS 5	(1.02 L/ha) 8.25 L jug (20 acres) 2 x 8.25 L jugs/case (40 acres) PUMA ADVANCE Control Control Control Control	 (500 mL/ha) 8 L jug (40 acres) concentrate 2 x 8 L jugs/case (80 acres) VARR0 + AMS¹ Control Control Control Suppression + Suppression Control 	(1 L/ha) 8 L jug (20 acres) 2 x 8 L jugs/case (40 acres) 400 L (1,000 acres)	(830 mL/ha) 6.7 L jug (20 acres) 2 x 6.7 L jugs/case (40 acres) 335 L (1,000 acres)	(1 L/ha) 8.1 L jug (20 acres) 2 x 8.1 L jugs/case (40 acres) 405 L (1,000 acres)
PACKAGING 2 GRASS WEEDS BARNYARD GRASS 2 CANARY SEED 2 GREEN FOXTAIL 2 JAPANESE BROME (SPRING/FALL GERMINATED) 2 PERSIAN DARNEL 2 WILD OATS 2 YELLOW FOXTAIL 2	2 x 8.25 L jugs/case (40 acres) PUMA ADVANCE Control Control Control Control Control	2 x 8 L jugs/case (80 acres) VARR0 + AMS¹ Control Control Control Control Suppression + Suppression Control	2 x 8 L jugs/case (40 acres) 400 L (1,000 acres)	2 x 6.7 L jugs/case (40 acres) 335 L (1,000 acres)	2 x 8.1 L jugs/case (40 acres) 405 L (1,000 acres)
BARNYARD GRASS CANARY SEED GREEN FOXTAIL JAPANESE BROME (SPRING/FALL GERMINATED) PERSIAN DARNEL WILD OATS YELLOW FOXTAIL BROADLEAF WEEDS	Control Control Control Control Control	Control Control Control Control Control Suppression + Control Control Control Control Control	BUCTRIL M	INFINITY + AMS ¹	INFINITY FX + AMS ¹
CANARY SEED GREEN FOXTAIL JAPANESE BROME (SPRING/FALL GERMINATED) PERSIAN DARNEL WILD OATS YELLOW FOXTAIL BROADLEAF WEEDS	Control Control Control	Control Control Suppression + Suppression Control			
GREEN FOXTAIL Image: Second Secon	Control Control	Control Suppression + Suppression Control			
JAPANESE BROME (SPRING/FALL GERMINATED) PERSIAN DARNEL WILD OATS YELLOW FOXTAIL BROADLEAF WEEDS	Control Control	Suppression + Suppression Control			
PERSIAN DARNEL WILD OATS YELLOW FOXTAIL BROADLEAF WEEDS	Control	Suppression Control			
WILD OATS YELLOW FOXTAIL BROADLEAF WEEDS	Control	Control			
BROADLEAF WEEDS		Suppression +			
	PUMA ADVANCE				
		VARRO + AMS ¹	BUCTRIL M	INFINITY + AMS ¹	INFINITY FX + AMS ¹
			Control		
ANNUAL SOW THISTLE				Control	Control
BLUEBUR			Control		
CANADA FLEABANE (SPRING SEEDLINGS) CANADA THISTLE			Cuperantian	Control	Control
CANADA THISTLE			Suppression	Suppression Control	Suppression Control
CLEAVERS		Control		Control	Control
COCKLEBUR			Control		
COMMON BUCKWHEAT			Control Control		
COMMON RAGWEED			Control	Control	Control
COW COCKLE			Control		
DANDELION				Suppression	Suppression
FLIXWEED GIANT RAGWEED			Control	Control Suppression (AMS)	Control Suppression
GREEN SMARTWEED			Control		
HEMP-NETTLE		Control		Control	Control
KOCHIA LADY'S-THUMB/SMARTWEED		Control	Suppression Control	Control	Control
LADT'S-THUMB/SMARTWEED		Suppression +	Control	Control	Control
NARROW-LEAVED HAWK'S BEARD*				Control	Control
NIGHT-FLOWERING CATCHFLY		Control	Control	Control	Control
PALE SMARTWEED PERENNIAL SOW THISTLE		Control	Control Suppression	Control Suppression	Suppression
REDROOT PIGWEED		Control	Control	Control	Control
ROUND-LEAVED MALLOW		Suppression		Suppression	Control
RUSSIAN THISTLE SCENTLESS CHAMOMILE (SPRING SEEDLINGS)		Suppression	Control	Control	Control
SHEPHERD'S-PURSE		Control	Control	Control	Control
SPREADING ATRIPLEX				Suppression	Suppression
STINKWEED TARTARY BUCKWHEAT		Control	Control	Control	Control
VOLUNTEER CANOLA		Control	Control	Control	Control
VOLUNTEER FLAX VOLUNTEER SOYBEANS				Control (3-4 Trifolate)	Control Control (3-4 Trifolate)
VOLUNTEER SUNFLOWER			Control		
WILD BUCKWHEAT		Suppression	Control	Control	Control
WILD MUSTARD WILD TOMATO		Control	Control	Control	Control
WILD TOMATO WORMSEED MUSTARD			Control		
WEED CONTROL		Not Labelled			

Ratings are based on Bayer research trials and experience, and demonstrate average control levels when evaluation over a wide range of environments and weed pressures. Ratings adhere to the label. Consult your Bayer representative or call 1-888-283-6847 on any unlabelled weed for weed control options. ¹ AMS for use on spring and fall wheat only. Durum wheat add a Non-Ionic Surfactant. * See product labels for a complete list of cereal crops. For a full list of tank mixes refer to product label





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