



2019 Bayer Registered and Bayer Supported tank mixes of commercial class pest control products used for crop production or vegetation management

In 2010, Health Canada's Pest Management Regulatory Agency (PMRA) implemented changes that allow for the application of unlabelled tank mixes of commercial pest control products provided they are registered and applied within their respective registered use pattern.

Accordingly, users of these products are permitted by the PMRA to apply unlabelled tank mixes of registered pest control products subject to the following conditions:

1. Each tank mix partner is registered for use in Canada on the crop of interest, including genetically modified crops.
2. The tank mix only includes an adjuvant when specifically required by one of the tank mix partner labels. If an adjuvant is not required on the label of any tank mix partner, then no adjuvant may be added to the tank mix.
3. The application timings of all tank mix partners are compatible with regards to crop and pest staging.
4. Each tank mix partner is applied in accordance with its registered product label (e.g. Directions for Use, Precautions, Buffer Zones, etc.). In cases where information on the tank mix partner labels differs between them, the most restrictive directions must be followed.
5. The tank mix is not specifically excluded or contraindicated on either tank mix partner label.
6. The use of the tank mix provides additional value to the user (e.g. increased scope of pests controlled, contributes to resistance management or integrated pest management, cost- or time-savings).



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Always read and follow label directions. Roundup Ready 2 Xtend® soybeans contains genes that confer tolerance to glyphosate and dicamba. Glyphosate will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Buctril®, Decis®, Infinity®, Luxxur™, Olympus™, Option Liquid®, Pardner®, Puma®, Sencor®, Thumper®, Tundra®, Varro®, VaperGrip®, Vios™, and XtendiMax® are trademarks of Bayer Group, Monsanto Canada ULC licensee. All other products mentioned are trademarks of their respective companies. © 2019 Bayer Group. All rights reserved. Bayer CropScience Inc. is a member of CropLife Canada.



General precautionary statement:

In some cases, tank mixing pest control products can result in reduced biological activity (antagonism = reduced efficacy), or increased biological activity (synergism = increased host injury). If a grower uses, or if anyone including any retail, crop advisor, agronomist or provincial extension personnel makes a recommendation to use, unlabelled tank mixes not approved by Bayer in writing they are assuming all liability, and Bayer disclaims any liability, for:

1. Any antagonistic or synergistic effects of the unlabelled tank mixes; and
2. The use of the Bayer product.

What does Bayer support in relation to this new tank mix policy?

Bayer will only support the use of Bayer products with tank mixes presently listed on Bayer product labels or with the unlabelled tank mixes listed in this document.



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Summary of Registered and Unlabeled, Bayer Supported Tank Mixes

BUCTRIL M

TANKMIXES	REGISTERED OR SUPPORTED	TANKMIX ORDER	CROPS	NOTES
Ally [®]	Registered	Ally [®] > Buctril M > NIS	Barley and Wheat	Used for hemp-nettle and chickweed as well as labelled weeds.
Axial [®]	Registered	Buctril M > Axial [®] BIA	Spring barley and Spring wheat	Adigor [®] at 283 mL/ac. Do not apply by aerial application. Only apply this mix to wheat that is not underseeded to legumes.
Centurion/Select [®]	Registered	Buctril M > Centurion > Amigo [®]	Flax	Cannot be applied by air.
Everest [®]	Registered	Everest [®] > Buctril M > NIS	Spring wheat	Non-ionic at 0.25% v/v. Do not apply by aerial application.
Horizon [®] NG	Registered	Buctril M > Horizon [®] NG	Wheat	For control of Persian damel, increase Horizon [®] rate to 117 mL/ac. and Score [®] to 1% v/v.
Liquid Achieve [®]	Registered	Achieve [®] > Buctril M > Turbocharge [®]	Durum and Spring wheat	Do not apply by air. + Turbocharge [®] at 0.5% v/v.
Luxxur [®]	Bayer supported tank mix	Luxxur A > AMS (0.5 L/ac. in Wheat) > Luxxur B > Buctril M > MCPA	Durum, Spring and Winter wheat	If Canada thistle or dandelions are primary target weeds, we would not recommend this tank mix partner as under certain environmental conditions you can see reduced activity on these specific weeds.
MCPA	Registered	Buctril M > MCPA	Barley, Oats and Wheat	Can add an additional 275 g. ai MCPA per hectare.
MCPA Ester	Registered	Buctril M > MCPA	Barley, Oats and Wheat	To increase control of volunteer canola and hemp-nettle, add 2 to 4 oz. of MCPA. MCPA K is preferred for hemp-nettle. Do not add more than 4 active ounces, beware of antagonistic effects of mixing a Group 1 and Group 4.
Poast [®]	Registered	Buctril M > Poast [®]	Flax	Do not use on low linolenic varieties. Do not spray when flax is under stress.
Puma Advance	Registered	Buctril M > Puma Advance	Barley and Wheat	
Refine [®] SG	Registered	Refine [®] > Buctril M > NIS	Barley and Wheat	Usually used when targeting hemp-nettle, redroot pigweed, chickweed.
Refine [®] SG + Puma Advance	Registered	Refine [®] > Buctril M > Puma Advance	Barley and Wheat	
Select [®]	Registered	Buctril M > Select [®] > Merge [®]	Flax	Cannot be applied by air, otherwise crop damage or poor control may result.
Sevin [®] XLR Plus	Bayer supported tank mix	Sevin [®] XLR Plus > Buctril M	Barley, Oats, Durum, Spring and Winter wheat	
Stratego PRO (ON, QC, NB, NS, NFLD, PEI)	Supported	Stratego PRO > Buctril M	Winter wheat	High water volumes decrease potential injury; especially important in cool temperatures.
Tilt [®]	Bayer supported tank mix	Tilt [®] > Buctril M	Barley, Oats, Durum, Spring and Winter wheat	
Traxos [®]	Bayer supported tank mix	Buctril M > Traxos [®]	Durum and Spring wheat	
Varro	Registered	Varro > Buctril M	Wheat	



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CONVERGE XT (CONVERGE 480 & CONVERGE FLEXX)

TANKMIXES	REGISTERED OR SUPPORTED	TANKMIX ORDER	CROPS	NOTES
Atrazine	Registered	Converge 480 > Converge Flexx	Corn	
Roundup® Brand Herbicides	Registered	Converge 480 > Converge Flexx > Roundup® Brand Herbicides	Corn	Converge XT tank-mixed with Roundup® Brand Herbicides can be applied up to the 3 leaf stage of Roundup (glyphosate) tolerant corn only at the low rate (30 ac./case). If tank-mixing Converge XT with Roundup at the high or mid-rate it can only be applied pre-emerge.
XtendiMax™ with VaporGrip® Technology + Roundup® Brand Herbicides	Supported ¹	Converge 480 > Converge Flexx > XtendiMax™ with VaporGrip® Technology (Dicamba)+ Roundup® Brand Herbicides	Corn	Use pre-emerge to corn.
Roundup Xtend® with VaporGrip® technology	Supported	Converge 480 > Converge Flexx > Roundup Xtend® with VaporGrip® technology	Corn	Use pre-emerge to corn.
Converge Flexx + XtendiMax™ (Dicamba) + Roundup® Brands	Supported ¹	Converge Flexx > XtendiMax™ > Roundup® Brands	Corn	Use pre-emerge to corn.
Converge Flexx + Roundup Xtend® with VaporGrip® technology	Supported	Converge Flexx > Roundup Xtend® with VaporGrip® technology	Corn	Use pre-emerge to corn.

¹ These tank-mixes are support because both non-Roundup brand herbicides are registered for use with Roundup® brand herbicides individually.



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DECIS

TANK MIXES	REGISTERED OR SUPPORTED	TANK MIX ORDER	CROPS	NOTES
2,4-D	Registered	Decis > 2,4-D	Barley, Corn, Oats, Pasture and Wheat	
XtendiMax™ with VaporGrip® Technology*	Registered	XtendiMax™ with VaporGrip® Technology > Decis	Barley, Corn, Oats, Pasture and Wheat	
Buctril M	Registered	Decis > Buctril M	Barley, Flax, Oats and Wheat	
Centurion	Bayer supported tank mix	Decis > Centurion > Amigo® (0.5% v/v)	All crops that both products are registered on	
Centurion + Liberty	Bayer supported tank mix	Amigo® (0.5% v/v) > Liberty > Centurion > Decis	InVigor canola	
Delaro	Bayer supported tank mix	Delaro > Decis	Lentils	
Headline®	Bayer supported tank mix	Headline® > Decis	All crops that both products are registered on	
Lance®	Bayer supported tank mix	Lance® > Decis	Alfalfa (seed production only), Canola and Lentils	
Liberty	Bayer supported tank mix	Liberty > Decis	InVigor canola	
MCPA Ester	Registered	Decis > MCPA	Barley, Corn, Flax, Oats, Pasture and Wheat	
Odyssey®	Bayer supported tank mix	Odyssey® > Decis > Merge®	Clearfield® Canola, Clearfield® Xceed B. Juncea Canola, Clearfield® Lentils	Merge® must be used with Odyssey® at a rate of 0.5 L/100 L of spray solution.



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INFINITY

TANK MIXES	REGISTERED OR SUPPORTED	TANK MIX ORDER	CROPS	NOTES
2,4-DEster	Bayer supported tank mix	Infinity > 2,4-D Ester	Barley, Durum, Spring and Winter wheat	Add 2,4-D Ester at 140 to 280 g ai/ha (2 to 4 active oz./ac.). When mixing with a graminicide, addition of 2,4-D Ester may result in reduced grass control under drought conditions, heavy grass populations or advanced grass stages. With addition of 2,4-D minimum crop growth stage is 4 leaf.
2,4-D Ester + AMS	Registered for control of stork's-bill	AMS > Infinity > 2,4-D Ester	Barley, Durum, Spring and Winter wheat	Add 2,4-D Ester at 280 g ai/ha (4 active oz./ac.). When mixing with a graminicide, addition of 2,4-D Ester may result in reduced grass control under drought conditions, heavy grass populations or advanced grass stages. With addition of 2,4-D minimum crop growth stage is 4 leaf.
Axial [®]	Registered	Infinity > Axial [®]	Barley and Spring wheat	Apply when the annual grass weeds are at the 1 to 6 leaf, prior to 4th tiller, stage of growth.
Axial [®] + Tilt [®]	Bayer supported tank mix	Tilt [®] > Infinity > Axial [®] > Adigor [®]	Barley and Spring wheat	Temporary crop injury may be observed when AMS is included for enhanced broadleaf weed control.
Decis	Bayer supported tank mix	Decis > Infinity	Barley, Durum and Spring wheat	
Horizon [®] NG	Registered	AMS > Infinity > Horizon [®] NG	Durum and Spring wheat	
Liquid Achieve [®]	Registered	AMS > Achieve [®] > Infinity > Turbocharge [®]	Barley, Durum, Spring and Winter wheat	
Lontrel [®]	Bayer supported tank mix	Infinity > Lontrel [®]	Barley, Durum and Spring wheat	
Luxxur	Bayer supported tank mix	Luxxur A > AMS (0.5 L/ac. in Wheat) > Luxxur B > Infinity > NIS (0.25% v/v in Durum wheat)	Durum, Spring and Winter wheat	If Canada thistle or dandelions are primary target weeds, we would not recommend this tank mix partner as under certain environmental conditions you can see reduced activity on these specific weeds.
MCPA Ester	Bayer supported tank mix	Infinity > MCPA Ester	Barley, Durum, Spring and Winter wheat	Add MCPA Ester at 140 to 280 g ai/ha (2 to 4 active oz./ac.). When mixing with a graminicide, addition of MCPA Ester may result in reduced grass control under drought conditions, heavy grass populations or advanced grass stages. With addition of MCPA minimum crop growth stage is 3 leaf.
Puma Advance	Registered	AMS > Infinity > Puma Advance	Barley, Durum and Spring wheat	
Puma Advance + Tilt [®]	Bayer supported tank mix	Tilt [®] > Infinity > Puma Advance	Barley and Spring wheat	Temporary crop injury may be observed when AMS adjuvant is included for enhanced weed control.
Sevin [®] XLR Plus	Bayer supported tank mix	Sevin [®] XLR Plus > Infinity	Barley, Durum and Spring wheat	
Stratego PRO (ON, QC, NB, NS, NFLD, PEI)	Supported	Stratego PRO > Infinity	Winter wheat	High water volumes decrease potential injury; especially important in cool temperatures. Do not tank mix in durum wheat.
Traxos [®]	Bayer supported tank mix	Infinity > Traxos [®]	Durum and Spring wheat	
Traxos [®] + Tilt [®]	Bayer supported tank mix	Tilt [®] > Infinity > Traxos [®]	Durum and Spring wheat	
Varro	Registered	Varro > Infinity	Durum, Spring and Winter wheat	



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INFINITY FX*

TANK MIXES	REGISTERED OR SUPPORTED	TANK MIX ORDER	CROPS	NOTES
Infinity FX is now a co-formulated product as opposed to FX herbicide + Infinity herbicide in separate containers. When Infinity + FX is listed below it can be replaced with the co-formulation Infinity FX.				
2,4-D Ester	Bayer supported tank mix	FX Herbicide > Infinity > 2,4-D Ester	Barley, Durum and Spring wheat	Add 2,4-D Ester at 140 to 280 g ai/ha (2 to 4 active oz./ac.). When mixing with a graminicide, addition of 2,4-D Ester may result in reduced grass control under drought conditions, heavy grass populations or advanced grass stages. With addition of 2,4-D minimum crop growth stage is 4 leaf.
2,4-D Ester + AMS	Registered for control of stork's-bill	AMS > FX Herbicide > Infinity > 2,4-D Ester	Barley, Durum and Spring wheat	Add 2,4-D Ester at 280 g ai/ha (4 active oz./ac.). When mixing with a graminicide, addition of 2,4-D Ester may result in reduced grass control under drought conditions, heavy grass populations or advanced grass stages. With addition of 2,4-D minimum crop growth stage is 4 leaf.
Axial [®] BIA	Registered	FX Herbicide > Infinity > Axial [®] BIA	Barley and Spring wheat	Apply when the annual grass weeds are at the 1 to 6 leaf prior to 4th tiller, stage of growth.
Decis	Bayer supported tank mix	Decis > FX Herbicide > Infinity	Barley, Durum and Spring wheat	
Horizon [®] NG	Bayer supported tank mix	FX Herbicide > Infinity > Horizon [®] NG	Durum and Spring wheat	
Liquid Achieve [®]	Registered	Achieve [®] > FX Herbicide > Infinity > Turbocharge [®]	Barley, Durum and Spring wheat	
Lontrel [®]	Bayer supported tank mix	FX Herbicide > Infinity > Lontrel [®]	Barley, Durum and Spring wheat	
Luxxur	Bayer supported tank mix	Luxxur A > AMS (0.5 L/ac. in Wheat) > Luxxur B > Infinity > FX Herbicide > NIS (0.25% v/v in Durum wheat)	Durum, Spring and Winter wheat	If Canada thistle or dandelions are primary target weeds, we would not recommend this tank mix partner, as under certain environmental conditions you can see reduced activity on these specific weeds.
MCPA Ester	Bayer supported tank mix	FX Herbicide > Infinity > MCPA Ester	Barley, Durum and Spring wheat	Add MCPA Ester at 140 to 280 g ai/ha (2 to 4 active oz./ac.). When mixing with a graminicide, addition of MCPA Ester may result in reduced grass control under drought conditions, heavy grass populations or advanced grass stages. With addition of MCPA minimum crop growth stage is 3 leaf.
Puma Advance	Registered	FX Herbicide > Infinity > Puma Advance	Barley, Durum and Spring wheat	
Sevin [®] XLR Plus	Bayer supported tank mix	Sevin [®] XLR Plus > FX Herbicide > Infinity	Barley, Durum and Spring wheat	
Tilt [®]	Bayer supported tank mix	Tilt [®] > FX Herbicide > Infinity	Barley, Durum, and Spring wheat	
Traxos [®]	Bayer supported tank mix	FX Herbicide > Infinity > Traxos [®]	Durum and Spring wheat	
Varro	Registered	AMS > Varro > FX Herbicide > Infinity	Durum and Spring wheat	
Ammonium Sulfate at 500 g/ha (99%) or 1 L/ha (49% solution) or 1.25 L/ha (40% solution) may be added for improved broadleaf weed control. If using an ammonium sulfate product with a different concentration, adjust the rate accordingly.				



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LUXXUR

TANK MIXES	REGISTERED OR SUPPORTED	TANK MIX ORDER	CROPS	NOTES
Unless otherwise noted, for all Luxxur tank mixes add AMS (spring wheat) or NIS (durum wheat) for enhanced grass control.				
2,4-D Ester	Bayer supported tank mix	Luxxur A > AMS (0.5 L/ac. in Wheat) > Luxxur B > 2,4-D > NIS (0.25% v/v in Durum)	Durum, Spring and Winter wheat	2,4-D for improved stork's-bill control. Minimum of 4 leaf crop stage.
Buctril M	Bayer supported tank mix	Luxxur A > AMS (0.5 L/ac. in Wheat) > Luxxur B > Buctril M > NIS (0.25% v/v in Durum)	Durum, Spring and Winter wheat	If Canada thistle or dandelions are primary target weeds, we would not recommend this tank mix partner as under certain environmental conditions you can see reduced activity on these specific weeds.
Curtail M	Bayer supported tank mix	Luxxur A > AMS (0.5 L/ac.) > Luxxur B > Curtail M	Durum and Spring wheat	
Frontline™ XL	Bayer supported tank mix	Luxxur A > AMS (0.5 L/ac.) > Frontline™ XL > Luxxur B	Durum and Spring wheat	
Infinity	Bayer supported tank mix	Luxxur A > AMS (0.5 L/ac. in Wheat) > Luxxur B > Infinity > NIS (0.25% v/v in Durum)	Durum, Spring and Winter wheat	If Canada thistle or dandelions are primary target weeds, we would not recommend this tank mix partner as under certain environmental conditions you can see reduced activity on these specific weeds.
Infinity FX*	Bayer supported tank mix	Luxxur A > AMS (0.5 L/ac. in Wheat) > Luxxur B > Infinity > FX Herbicide > NIS (0.25% v/v in Durum)	Durum, Spring and Winter wheat	If Canada thistle or dandelions are primary target weeds, we would not recommend this tank mix partner as under certain environmental conditions you can see reduced activity on these specific weeds.
MCPA Ester	Bayer supported tank mix	Luxxur A > AMS (0.5 L/ac. in Wheat) > Luxxur B > MCPA > NIS (0.25% v/v in Durum)	Durum, Spring and Winter wheat	
OctTain™	Bayer supported tank mix	Luxxur A > AMS (0.5 L/ac. in Wheat) > Luxxur B > OctTain™ > NIS (0.25% v/v in Durum)	Durum, Spring and Winter wheat	Minimum of 4 leaf crop stage as per OctTain™ label.
Paradigm™	Bayer supported tank mix	Paradigm™ > Luxxur A > AMS (0.5 L/ac. in Wheat) > Luxxur B > Paradigm™ > Luxxur B > NIS (0.25% v/v in Durum)	Durum, Spring and Winter wheat	If Canada thistle or dandelions are primary target weeds, we would not recommend this tank mix partner as under certain environmental conditions you can see reduced activity on these specific weeds.
Pixxaro™	Bayer supported tank mix	Luxxur A > AMS (0.5 L/ac. in Wheat) > Luxxur B > Pixxaro™ > Pixxaro™ B	Durum, Spring and Winter wheat	When Luxxur is tank mixed with Pixxaro™, NIS is not required for broadleaf control.
Prestige™	Bayer supported tank mix	Luxxur A > AMS (0.5 L/ac.) > Luxxur B > Prestige™	Durum and Spring wheat	
Stellar™	Bayer supported tank mix	Luxxur A > AMS (0.5 L/ac.) > Luxxur B > Stellar™	Durum and Spring wheat	
Thumper	Bayer supported tank mix	Luxxur A > AMS (0.5 L/ac. in Wheat) > Luxxur B > Thumper > NIS (0.25% v/v in Durum)	Durum, Spring and Winter wheat	Minimum of 4 leaf crop stage if Canada thistle or dandelions are primary target weeds, we would not recommend this tank mix partner as under certain environmental conditions you can see reduced activity on these specific weeds.
Trophy	Bayer supported tank mix	Luxxur A > AMS (0.5 L/ac. in Wheat) > Luxxur B > Trophy™ A > Trophy™ B > NIS (0.25% v/v in Durum)	Durum, Spring and Winter wheat	

* Infinity FX is now a co-formulated product as opposed to FX + Infinity in separate containers. When FX + Infinity is listed below it can be replaced with the co-formulation Infinity FX.



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OLYMPUS

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Avadex® Liquid EC	Supported	Olympus > Avadex®	Wheat	Do not apply this product before seeding wheat in soils with 4% or less organic matter (brown, dark brown or grey wooded soils) where discers are to be used for seeding. If an air seeder is to be used, it must be equipped with a depth control device to ensure accurate seed placement, otherwise crop injury may occur.
CleanStart®	Supported	Olympus > CleanStart®	Wheat	Potential MRL issue that grain from crops treated with this product prior to harvest may have market access concerns. To avoid potential trade issues follow product labels and consult your commodity buyer before applying this product.
XtendiMax™ with VaporGrip® Technology® + Roundup® Brand Herbicides	Supported ¹	Olympus > XtendiMax™ with VaporGrip® Technology® + Roundup® Brand Herbicides®	Wheat	For minimum or zero till operations only. The rate for XtendiMax™ with VaporGrip® Technology pre to cereals is 0.175 L/ac (60 ac. per 10 L jug).
Roundup® Brand Herbicides	Registered	Olympus > Roundup® Brand Herbicides	Wheat	
2,4-D Ester® + Roundup® Brand Herbicides	Supported ¹	Olympus > 2,4-D Ester® > Roundup	Wheat	For minimum or zero till operations only. 294 g ae per acre before the emergence of cereals to control weeds greater than 8 cm tall or harder to control weeds.
AIM® + Roundup® Brand Herbicides	Supported ¹	Olympus > AIM® > Roundup	Wheat	Potential MRL issue that grain from crops treated with this product prior to harvest may have market access concerns. To avoid potential trade issues follow product labels and
BlackHawk® (with Carfentrazone) + Roundup® Brand Herbicides	Supported ¹	Olympus > Blackhawk® > Roundup	Wheat	Potential MRL issue that grain from crops treated with this product prior to harvest may have market access concerns. To avoid potential trade
BlackHawk® (with Pyraflufen) + Roundup® Brand Herbicides	Supported ¹	Olympus > Blackhawk® > Roundup	Wheat	For minimum or zero till operations only. Pre-seed or a maximum of 3 days after seeding.
Pardner + Roundup® Brand Herbicides	Supported ¹	Olympus > Pardner > Roundup	Wheat	For minimum or zero till operations only.
Buctril M	Supported	Olympus > Buctril M >	Wheat	For minimum or zero till operations only.
Goldwing® + Roundup® Brand Herbicides	Supported ¹	Olympus > Goldwing® > Roundup	Wheat	For minimum or zero till operations only.
Heat® LQ + Roundup® Brand Herbicides	Supported ¹	Olympus > Heat® LQ > Roundup	Wheat	
MCPA Ester® + Roundup® Brand Herbicides	Supported ¹	Olympus > MCPA Ester® > Roundup	Wheat	

¹ These tank-mixes are support because both non-Roundup products are registered for use with Roundup® brand herbicides individually.



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OPTION LIQUID

TANK MIXES	REGISTERED OR SUPPORTED	TANK MIX ORDER	CROPS	NOTES
UAN	Registered	Option > UAN	Corn	If used alone, must be used with UAN.
Atrazine + UAN	Registered	Option > Atrazine > UAN	Corn	Possible antagonism affecting yellow foxtail activity.
Distinct® + UAN	Registered	Distinct® > Option > UAN	Corn	
XtendiMax™ with VaporGrip® Technology	Registered	Option > XtendiMax™ with VaporGrip® Technology	Corn	Can be applied up to the 5-leaf stage of corn.

PARDNER

TANK MIXES	REGISTERED OR SUPPORTED	TANK MIX ORDER	CROPS	NOTES
2,4-DEster	Registered	2,4-D Ester > Pardner	Barley and Wheat	
Accent® + NIS	Registered	Accent® > Pardner > NIS	Field corn	
Atrazine	Registered	Atrazine > Pardner	Field and Sweet Corn	DO NOT ADD OIL OR SURFACTANT, OR USE ATRAZINE formulations containing oil
XtendiMax™ with VaporGrip® Technology*	Registered	XtendiMax™ with VaporGrip® Technology > Pardner	Field corn	
Horizon® NG	Registered	Horizon® NG > Pardner	Wheat	
Liquid Achieve®	Registered	Achieve® > Pardner	Barley and Wheat	
MCPA Ester	Registered	MCPA Ester > Pardner	Barley, Canary seed, Fall rye, Flax, Oats, Seeding grasses and Wheat	
Sevin® XLR Plus	Bayer supported tank mix	Sevin® XLR Plus > Pardner	All crops that both products are registered on	



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PUMA ADVANCE

TANK MIXES	REGISTERED OR SUPPORTED	TANK MIX ORDER	CROPS	NOTES
2,4-D Ester	Registered	2,4-D Ester > Puma Advance	Barley and Wheat	
Ally [®]	Registered	Ally [®] > Puma Advance	Wheat	
Attain [™] XC	Registered	Attain [™] XC > Puma Advance	Wheat	
Barricade [®]	Bayer supported tank mix	Barricade [®] > Puma Advance	Barley, Durum, Spring and Winter wheat	
Buctril M	Registered	Buctril M > Puma Advance	Barley and Wheat	
Curtail [®] M	Registered	Curtail [®] M > Puma Advance	Barley and Wheat	
Decis	Bayer supported tank mix	Decis > Puma Advance	Barley and Wheat	
Dichlorprop-D	Registered	Dichlorprop-D > Puma Advance	Barley and Wheat	
Dyvel [®]	Registered	Dyvel [®] > Puma Advance	Barley and Wheat	
Dyvel [®] DS	Registered	Dyvel [®] DS > Puma Advance	Wheat	
Estaprop [®]	Registered	Estaprop [®] > Puma Advance	Barley and Wheat	
ExpressPack [®]	Registered	ExpressPack [®] > Puma Advance	Barley and Wheat	Registered for foxtail only. Will not perform on wild oats.
Frontline [®]	Registered	Frontline [®] > Puma Advance	Barley and Wheat	Registered for foxtail only. Will not perform on wild oats.
Grow TTF [®]	Bayer supported tank mix	Grow TTF [®] > Puma Advance	Barley, Durum and Spring wheat	
Infinity	Registered	Infinity > Puma Advance	Barley and Wheat	
InfinityFX [®]	Registered	FX Herbicide > Infinity > Puma Advance	Barley, Durum and Spring wheat	
Lontrel [®] 360	Registered	Lontrel [®] 360 > Puma Advance	Wheat	
MCPA Amine	Registered	MCPA Amine > Puma Advance	Barley and Wheat	
MCPA Ester	Registered	MCPA Ester > Puma Advance	Barley and Wheat	
Mecoprop	Registered	Mecoprop > Puma Advance	Wheat	
Momentum [™]	Bayer supported tank mix	Momentum [™] > Puma Advance	Barley, Durum and Spring wheat	
OcTTain [™]	Bayer supported tank mix	OcTTain [™] > Puma Advance	Durum and Spring wheat	Minimum of 4 leaf crop stage as per OcTTain [™] label.
Pixxaro [™]	Bayer supported tank mix	Pixxaro [™] > Puma Advance	Barley, Durum and Spring wheat	
Prestige [™]	Registered	Prestige [™] > Puma Advance	Barley and Wheat	
Prestige [™] XC	Registered	Prestige [™] XC > Puma Advance	Barley and Wheat	
Refine [®] SG	Registered	Refine [®] SG > Puma Advance	Barley and Wheat	
Sevin [®] XLR Plus	Bayer supported tank mix	Sevin [®] XLR Plus > Puma Advance	Barley, Durum and Spring wheat	
Spectrum [™]	Registered	Spectrum [™] > Puma Advance	Barley and Wheat	Registered for foxtail only. Will not perform on wild oats.



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Thumper	Registered	Thumper > Puma Advance	Barley and Wheat	
Tilt	Bayer supported tank mix	Tilt > Puma Advance	Barley, Durum and Spring wheat	
Triton[®] C	Registered	Triton [®] C > Puma Advance	Barley and Wheat	
Trophy	Registered	Trophy > Puma Advance	Barley and Wheat	
Turboprop[®] 600	Registered	Turboprop [®] 600 > Puma Advance	Barley and Wheat	
Unity[™]	Registered	Unity [™] > Puma Advance	Barley and Wheat	

SENCOR (DF)

TANK MIXES	REGISTERED OR SUPPORTED	TANK MIX ORDER	CROPS	NOTES
Treflan [™]	Registered	Sencor DF > Treflan [™] EC	Soybeans	
Dual Magnum [®] II	Registered	Sencor DF > Dual Magnum [®] II	Soybeans	
Frontier [®]	Registered	Sencor DF > Frontier [®]	Soybeans	
Pursuit [®]	Registered	Sencor DF > Pursuit [®]	Soybeans	
Roundup [®] Brand herbicides	Registered	Sencor DF > Roundup	Soybeans	
Lorox [®]	Registered	Sencor DF > Lorox [®]	Soybeans	
Eragon [®] + Merge [®]	Supported	Sencor DF > Eragon [®] > Merge [®]	Soybeans	
Roundup Xtend [®] with VaporGrip [®] Technology	Supported	Sencor DF > Roundup Xtend [®] with VaporGrip [®] Technology	Roundup Ready 2 Xtend Soybeans Only	
Xtendimax [™] with VaporGrip [®] Technology	Supported	Sencor DF > Xtendimax [™] with VaporGrip [®] Technology	Roundup Ready 2 Xtend Soybeans Only	



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THUMPER

TANK MIXES	REGISTERED OR SUPPORTED	TANK MIX ORDER	CROPS	NOTES
2,4-D Ester	Bayer supported tank mix	Thumper > 2,4-D	Barley, Durum and Spring wheat	Add 2,4-D Ester at 140 g ai/ha (2 active oz./ac.) for enhanced broadleaf control. When mixing with a graminicide, addition of 2,4-D Ester may result in reduced grass control under drought conditions, heavy grass populations or advanced grass stages.
Decis	Bayer supported tank mix	Decis > Thumper	Barley, Durum and Spring wheat	
Horizon [®] NG	Registered	Thumper > Horizon [®] NG	Durum and Spring wheat	Used for Persian dandel.
Liquid Achieve [®]	Registered	Achieve [®] > Thumper > Turbocharge [®]	Barley, Durum and Spring wheat	
Luxxur	Bayer supported tank mix	Luxxur A > AMS (0.5 L/ac. in Wheat) > Luxxur B > Thumper > NIS (0.25% v/v in Durum wheat)	Durum, Spring and Winter wheat	Minimum of 4 leaf crop stage. If Canada thistle or dandelions are primary target weeds, we would not recommend this tank mix partner as under certain environmental conditions you can see reduced activity on these specific weeds.
Puma Advance	Registered	Thumper > Puma Advance	Barley and Wheat	
Sevin [®] XLR Plus	Bayer supported tank mix	Sevin [®] XLR Plus > Thumper	Barley, Durum and Spring wheat	
Tilt [®]	Bayer supported tank mix	Tilt [®] > Thumper	Barley, Durum and Spring wheat	
Varro	Registered	Varro > Thumper	Durum, Spring and Winter wheat	

TUNDRA

TANK MIXES	REGISTERED OR SUPPORTED	TANK MIX ORDER	CROPS	NOTES
2,4-D Ester	Bayer supported tank mix	Tundra > 2,4-D Ester	Barley, Durum and Spring wheat	Add 2,4-D Ester at 140 to 280 g ai/ha (2 to 4 active oz./ac.). The addition of 2,4-D Ester may result in reduced grass control under drought conditions, heavy grass populations or advanced grass stages. With addition of 2,4-D minimum crop growth stage is 4 leaf.
2,4-D Ester + AMS	Registered	AMS > Tundra > 2,4-D Ester	Barley, Durum and Spring wheat	
Decis	Bayer supported tank mix	Decis > Tundra	Barley, Durum and Spring wheat	
Lontrel [®]	Bayer supported tank mix	Lontrel [®] > Tundra	Barley, Durum and Spring wheat	
MCPA Ester	Bayer supported tank mix	Tundra > MCPA Ester	Barley, Durum and Spring wheat	Add MCPA Ester at 140 to 280 g ai/ha (2 to 4 active oz./ac.). The addition of MCPA Ester may result in reduced grass control under drought conditions, heavy grass populations or advanced grass stages.
Sevin [®] XLR Plus	Bayer supported tank mix	Sevin [®] XLR Plus > Tundra	Barley, Durum and Spring wheat	
Tilt [®]	Bayer supported tank mix	Tilt [®] > Tundra	Barley and Spring wheat	Temporary crop injury may be observed when AMS adjuvant is included for enhanced weed control.



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VARRO

TANK MIXES	REGISTERED OR SUPPORTED	TANK MIX ORDER	CROPS	NOTES
Unless otherwise noted, for all Varro tank mixes add AMS (spring wheat) or NIS (durum wheat) for enhanced grass control.				
2,4-D Ester	Registered	AMS (0.5L/ac. in Wheat) > Varro > 2,4-D > NIS (0.25% v/v in Durum)	Durum and Spring wheat	2,4-D for improved stork's-bill control.
Attain™ XC	Registered	Varro > Attain™ XC	Spring wheat	
Attain™ XC	Bayer supported tank mix	Varro > Attain™ XC	Durum wheat	
Barricade/Barricade® II	Bayer supported tank mix	Barricade® > Varro	Durum and Spring wheat	Add AMS (spring wheat) or NIS (durum wheat) for enhanced grass control. Add MCPA (4 active oz./ac.) for volunteer Clearfield® canola or Group 2 resistant weeds.
Barricade® M	Bayer supported tank mix	Barricade® M > Varro	Durum and Spring wheat	Add AMS (spring wheat) or NIS (durum wheat) for enhanced grass control.
Buctril M	Registered	Varro > Buctril M	Durum and Spring wheat	
Buctril M	Bayer supported tank mix	Varro > Buctril M	Winter wheat	
Curtail® M	Registered	AMS > Varro > Curtail® M	Spring wheat	In Spring wheat add AMS adjuvant when tank mixing with Momentum™ herbicide. Use NIS adjuvant in Durum wheat.
Frontline™ XL	Registered	Varro > Frontline™ XL	Spring wheat	
Grow TTF®	Bayer supported tank mix	Grow TTF® > Varro	Durum and Spring wheat	
Infinity	Registered	Varro > Infinity	Durum, Spring and Winter wheat	
Infinity FX*	Registered	AMS > Varro > FX Herbicide > Infinity	Durum, Spring and Winter wheat	
MCPA Ester	Registered	AMS (0.5L/ac. in Wheat) > Varro > MCPA > NIS (0.25% v/v in Durum)	Durum and Spring wheat	
Momentum™	Bayer supported tank mix	AMS > Varro > Momentum™ > NIS (in Durum wheat)	Durum and Spring wheat	In Spring wheat add AMS adjuvant when tank mixing with Momentum™ herbicide. Use NIS adjuvant in Durum wheat.
OcTTain™	Bayer supported tank mix	Varro > OcTTain™	Durum and Spring wheat	Minimum of 4 leaf crop stage as per OcTTain™ label.
Paradigm™	Bayer supported tank mix	AMS > Paradigm™ > Varro	Durum, Spring and Winter wheat	When Varro is tank mixed with Paradigm™, non-ionic surfactant (NIS) is not required for broadleaf control if MCPA or AMS is added in the tank mixture.
Pixxaro™	Bayer supported tank mix	AMS > Varro > Pixxaro™ > Pixxaro™ B	Durum, Spring and Winter wheat	When Varro is tank mixed with Pixxaro™, NIS is not required for broadleaf control.
PP-23235	Bayer supported tank mix	PP-23235 > Varro	Durum and Spring wheat	Add MCPA Ester at 280 g ai/ha (4 active oz/ac.) if required.
PP-2525	Bayer supported tank mix	PP-2525 > Varro	Durum and Spring wheat	Add MCPA Ester at 280 g ai/ha (4 active oz/ac.) if required.
PP-31155	Bayer supported tank mix	PP-31155 > Varro	Durum and Spring wheat	Add MCPA Ester at 280 g ai/ha (4 active oz/ac.) if required.
Prestige™	Bayer supported tank mix	AMS > Varro > Prestige™ > NIS (in Durum wheat)	Durum and Spring wheat	In spring wheat add AMS adjuvant when tank mixing with Prestige™ herbicide. Use NIS adjuvant in durum wheat.
Refine® M/Broadside®	Bayer supported tank mix	Refine® > Varro	Durum and Spring wheat	
Refine® SG	Registered	Refine® > Varro	Spring wheat	
Refine® SG + 2,4-D Ester	Registered	Refine® > Varro > 2,4-D	Spring wheat	
Refine® SG + MCPA Ester	Registered	Refine® > Varro > MCPA	Spring wheat	Improved Canada thistle control.
Retain® SG	Bayer supported tank mix	Varro > Retain®	Durum and Spring wheat	
Stellar™	Bayer supported tank mix	Varro > Stellar™	Durum and Spring wheat	
Thumper	Registered	Varro > Thumper	Durum, Spring and Winter wheat	
Tilt®	Bayer supported tank mix	Varro > Tilt®	Spring and Winter wheat	Temporary crop injury may be observed when AMS adjuvant is included for enhanced weed control. Studies show that greatest return on investment using a foliar fungicide occurs when applied at the head and flag leaf timings.
Travallas™	Bayer supported tank mix	Travallas™ > Varro	Durum and Spring wheat	



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VELOCITY M3

TANK MIXES	REGISTERED OR SUPPORTED	TANK MIX ORDER	CROPS	NOTES
2,4-D Ester	Bayer supported tank mix	Velocity m3 > 2,4-D Ester	Durum, Spring and Winter wheat	Add 2,4-D Ester at 140 to 280 g ai/ha (2 to 4 active oz./ac.). The addition of 2,4-D Ester may result in reduced grass control under drought conditions, heavy grass populations or advanced grass stages. In Spring and Winter wheat include AMS adjuvant when adding 2,4-D Ester. With addition of 2,4-D minimum crop growth stage is 4 leaf.
2,4-D Ester + AMS	Registered	AMS > Velocity m3 > 2,4-D Ester	Spring wheat	For control of Stork's-bill. Add 2,4-D Ester at 280 g ai/ha (4 active oz./ac.). With addition of 2,4-D minimum crop growth stage is 4 leaf.
Decis	Bayer supported tank mix	Velocity m3 > Decis	Durum and Spring wheat	
Lontrel*	Bayer supported tank mix	Lontrel* > Velocity m3	Durum and Spring wheat	
MCPA Ester	Bayer supported tank mix	Velocity m3 > MCPA Ester	Durum, Spring and Winter wheat	Add MCPA Ester at 140 to 280 g ai/ha (2 to 4 active oz./ac.). The addition of MCPA Ester may result in reduced grass control under drought conditions, heavy grass populations or advanced grass stages. In Spring and Winter wheat include AMS adjuvant when adding MCPA Ester.
Sevin* XLR Plus	Bayer supported tank mix	Sevin* XLR Plus > Velocity m3	Durum and Spring wheat	
Tilt*	Bayer supported tank mix	Tilt* > Velocity m3	Spring and Winter wheat	Temporary crop injury may be observed when AMS adjuvant is included for enhanced weed control.

VIOS G3

TANK MIXES	REGISTERED OR SUPPORTED	TANK MIX ORDER	CROPS	NOTES
Roundup® Brand herbicides	Registered	Vios > Roundup	Corn	Roundup (Glyphosate) tolerant corn only.
Liberty	Registered	Vios > Liberty	Corn	Liberty tolerant corn only.
Atrazine + Roundup® Brand herbicides	Supported ¹	Atrazine > Vios > Roundup	Corn	
Roundup Xtend® with VaporGrip® Technology	Supported	Vios > Roundup Xtend® with VaporGrip® Technology	Corn	Up to the 5 leaf stage of corn
XtendiMax™ with VaporGrip® Technology + Roundup® Brand Herbicides	Supported ¹	Vios > XtendiMax™ with VaporGrip® Technology + Roundup® Brand Herbicides	Corn	Up to the 5 leaf stage of corn

¹ These tank-mixes are supported because both non-Roundup products are registered for use with Roundup® brand herbicides individually.



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XtendiMax™ with VaporGrip® Technology

TANK MIXES	REGISTERED OR SUPPORTED	TANK MIX ORDER	CROPS	NOTES
2,4-D Amine	Registered	2,4-D Amine > XtendiMax™ with VaporGrip® Technology	Spring Wheat, Spring Barley, Winter Wheat, Spring Rye	2-5 leaf stage
MCPA Amine	Registered	MCPA Amine > XtendiMax™ with	Spring Wheat, Spring Barley, Winter Wheat, Oats,	2-5 leaf stage
Dual II Magnum	Registered	Dual II Magnum > XtendiMax™ with VaporGrip® Technology	Field corn/Roundup Ready 2 Xtend Soybeans	Eastern Canada Only spike to 2 leaf corn, PRE to soybeans
Frontier Max Herbicide	Registered	Frontier Max > XtendiMax™ with VaporGrip® Technology	Field corn/Roundup Ready 2 Xtend Soybeans	Eastern Canada Only spike to 2 leaf corn, PRE to soybeans
Primextra II Magnum	Registered	Primextra II Magnum > XtendiMax™ with VaporGrip® Technology	Field corn	Eastern Canada Only spike to 2 leaf corn
Aatrex Liquid 480/Converge Flexx	Registered	Aatrex Liquid > XtendiMax™ with VaporGrip® Technology	Field corn	Eastern Canada Only spike to 5 leaf corn
Prowl H20	Registered	Prowl H20 > XtendiMax™ with VaporGrip® Technology	Field corn	Eastern Canada Only spike to 4 leaf corn
Converge XT	Supported	Converge XT > XtendiMax™ with VaporGrip® Technology	Field corn	Eastern Canada Only PRE to 3 leaf corn
Vios G3	Supported	Vios G3 > XtendiMax™ with VaporGrip® Technology	Field corn	Eastern Canada Only spike to 5 leaf corn
Pursuit	Supported	Pursuit > XtendiMax™ with VaporGrip® Technology	Roundup Ready 2 Xtend Soybeans	Up to V3 soybeans
Authority	Supported	Authority > XtendiMax™ with VaporGrip® Technology	Roundup Ready 2 Xtend Soybeans	PRE emerge only
Authority Supreme	Supported	Authority Supreme > XtendiMax™ with VaporGrip® Technology	Roundup Ready 2 Xtend Soybeans	PRE emerge only
Express 50 SG	Supported	Express > XtendiMax™ with VaporGrip® Technology	Roundup Ready 2 Xtend Soybeans	PRE emerge only
Fierce	Supported	Fierce > XtendiMax™ with VaporGrip® Technology	Roundup Ready 2 Xtend Soybeans	PRE emerge only
Focus SE	Supported	Focus > XtendiMax™ with VaporGrip® Technology	Roundup Ready 2 Xtend Soybeans	PRE emerge only
Valtera	Supported	Valtera > XtendiMax™ with VaporGrip® Technology	Roundup Ready 2 Xtend Soybeans	PRE emerge only
Sencor 480/75DF	Supported	Sencor > XtendiMax™ with VaporGrip® Technology	Roundup Ready 2 Xtend Soybeans	PRE emerge only



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Roundup Xtend® with VaporGrip® Technology

TANK MIXES	REGISTERED OR SUPPORTED	TANK MIX ORDER	CROPS	NOTES
Dual II Magnum	Supported	Dual II Magnum > Roundup Xtend® with VaporGrip® Technology	Field corn/Roundup Ready 2 Xtend Soybeans	Eastern Canada Only spike to 2 leaf corn, PRE to soybeans
Frontier Max Herbicide	Supported	Frontier Max > Roundup Xtend® with VaporGrip® Technology	Field corn/Roundup Ready 2 Xtend Soybeans	Eastern Canada Only spike to 2 leaf corn, PRE to soybeans
Primextra II Magnum	Supported	Primextra II Magnum > Roundup Xtend® with VaporGrip® Technology	Field corn	Eastern Canada Only spike to 2 leaf corn
Aatrex Liquid 480/Converge Flexx	Supported	Aatrex Liquid > Roundup Xtend® with VaporGrip® Technology	Field corn	Eastern Canada Only spike to 5 leaf corn
Prowl H20	Supported	Prowl H20 > Roundup Xtend® with VaporGrip® Technology	Field corn	Eastern Canada Only spike to 4 leaf corn
Converge XT	Supported	Converge XT > Roundup Xtend® with VaporGrip® Technology	Field corn	Eastern Canada Only PRE to 3 leaf corn
Vios G3	Supported	Vios G3 > Roundup Xtend® with VaporGrip® Technology	Field corn	Eastern Canada Only spike to 5 leaf corn
Pursuit	Supported	Pursuit > Roundup Xtend® with VaporGrip® Technology	Roundup Ready 2 Xtend Soybeans	Up to V3 soybeans
Authority	Supported	Authority > Roundup Xtend® with VaporGrip® Technology	Roundup Ready 2 Xtend Soybeans	PRE emerge only
Authority Supreme	Supported	Authority Supreme > Roundup Xtend® with VaporGrip® Technology	Roundup Ready 2 Xtend Soybeans	PRE emerge only
Express 50 SG	Supported	Express > Roundup Xtend® with VaporGrip® Technology	Roundup Ready 2 Xtend Soybeans	PRE emerge only
Fierce	Supported	Fierce > Roundup Xtend® with VaporGrip® Technology	Roundup Ready 2 Xtend Soybeans	PRE emerge only
Focus SE	Supported	Focus > Roundup Xtend® with VaporGrip® Technology	Roundup Ready 2 Xtend Soybeans	PRE emerge only
Valtera	Supported	Valtera > Roundup Xtend® with VaporGrip® Technology	Roundup Ready 2 Xtend Soybeans	PRE emerge only
Sencor 480/75DF	Supported	Sencor > Roundup Xtend® with VaporGrip® Technology	Roundup Ready 2 Xtend Soybeans	PRE emerge only



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Always read and follow label directions. Roundup Ready 2 Xtend® soybeans contains genes that confer tolerance to glyphosate and dicamba. Glyphosate will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Buctril®, Decis®, Infinity®, Luxxur™, Olympus™, Option Liquid®, Pardner®, Puma®, Sencor®, Thumper®, Tundra®, Varro®, VaporGrip®, Vios™, and XtendiMax® are trademarks of Bayer Group, Monsanto Canada ULC licensee. All other products mentioned are trademarks of their respective companies. © 2019 Bayer Group. All rights reserved. Bayer CropScience Inc. is a member of CropLife Canada.