GROW WITH CONFIDENCE. THE INPUTS, EXPERTISE AND ADVICE THAT YIELD RESULTS.



CEREAL, PULSE & INOCULANT GUIDE 2024

BEING A UFA MEMBER MEANS YOU COULD EARN PATRONAGE ON MANY PURCHASES YOU MAKE TO GROW HEALTHY CROPS:



THAT'S A PLUS.

HELPING YOU ACHIEVE A BETTER YIELD.

The right crop protection and your approach are important, whether you're growing cereals or pulses. This guide, and your Customer Account Manager's (CAM) experience and knowledge, makes sure you have the best information to make decisions. From seeding to storage, we're with you every step of the way.

With a full range of products to improve the health of your crop at any stage, your CAM will work with you to provide the right products, including our own lineup of micronutrients. This means you'll get the best solution for your growing conditions.

As a UFA member you can benefit from exclusive credit programs, to help you get the most of every dollar.

Grow with Confidence, Grow with UFA.



Scan the QR Code and discover that Better Crops begin here.

CEREALS

Get your cereal crop off to the best start with the top crop input choices. UFA offers a variety of options that help keep your cereal crops safe from weeds, insects and disease, meaning healthier plants and higher yields. Our complete acre solutions are simple steps that help you grow consistent, healthy crops.

UFA is here to partner with you to provide the right products and solutions to maximize your yields and grow your returns.

WHEAT CROP STAGE SOLUTIONS GROUP 1 GRASS HERBICIDES

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CEREA

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	PRE-SEED	PRE- EMERGENCE	SEED	1ST LEAF	BROADLEAF CONTROL	2ND TO FLAG LEAF	CO-PACKS	FLAG LEAF	EARLY HEAD EMERGENCE	FULL HEAD EMERGENCE	20% FLOWER	50% FLOWER	PRE HARVEST	POST HARVEST
ENDED	BLACKHAWK®	VALTERA [™] EZ	CRUISER [®] VIBRANCE [®] QUATTRO		ENFORCER®	AXIAL®	AXIAL® XTREME	MIRAVIS® NEO		*****	PROSARO®		ROUNDUP	DISTINCT®
RECOMMENDED	PREPASS [™] FLEX	AUTHORITY®	RAXIL [®] PRO SHIELD		INFINITY® FX	EPIC®	AXIAL® XTREME	NEXICOR®			MIRAVIS® ACE		TRANSORB [®] HC	
RE	VORAXOR®	FOCUS®	TERAXXA® F4		PIXXARO™	SIGNAL®	IPAK™	TILMOR®			SPHAEREX®		HEAT [®] LQ	
	SMOULDER®		VIBRANCE® QUATTRO		TALINOR®	HORIZON [®] NG	REZUVANT [™] XL	HORNET [™]			CARAMBA®		AIM [®] EC	
	PARADIGM [®] PRE		RAXIL [®] PRO		ONDECK™	TRAXOS®	TRAXOS® TWO							
	KORREX II		INSURE [®] CEREAL FX4		TRUSLATE [™] PRO		TUNDRA®							
			NIPSIT [®] SUITE		OCTTAIN [™] XL		CIRRAY®							
					BUCTRIL [®] M									

WHEAT CROP STAGE SOLUTIONS GROUP 2 GRASS HERBICIDES

RCOMMENDED

Bl

		×	A	1	A A			\$	A I				
PRE-SEED	PRE- Emergence	SEED	IST LEAF	BROADLEAF CONTROL	2ND TO FLAG LEAF TO SSURSS CONTROS	CO-PACKS	FLAG LEAF	EARLY HEAD EMERGENCE	FULL HEAD EMERGENCE	20% FLOWER	50% FLOWER	PRE HARVEST	POST HARVEST
AIM	VALTERA EZ	CRUISER VIBRANCE QUATTRO		ENFORCER M	SIMPLICITY™	REXADE™	TILMOR			PROSARO		ROUNDUP	DISTINCT
BLACKHAWK		RAXIL PRO SHIELD		INFINITY FX	SIERRA [®] 3.0AG	VELOCITY™	MIRAVIS NEO			MIRAVIS ACE		TRANSORB HC	
VORAXOR		TERAXXA F4		PIXXARO		M3 AIO	HORNET			SPHAEREX		HEAT LQ	
HEAT LQ		VIBRANCE QUATTRO		PROMINEX™		EREBUS™	NEXICOR					AIM	
		RAXIL PRO	-	ONDECK™		XTREME							
		INSURE CEREAL FX4		EXHILARATE™		VARRO [®] FX							
		NIPSIT SUITE		BUCTRIL M		PREDICADE®							

BARLE	Y CROP \$	STAGE SO	LUTIONS				λ				R S	
					y y	YÌ	K					
	Ŧ			K	21	ID TO FLAG LEAF						
	PRE-SEED BURN DOWN (MIX WITH GLYPHOSATE)	PRE- EMERGENCE	SEED	1ST LEAF	BROADLEAF CONTROL	GRASS CONTROL	CO-PACKS	FLAG LEAF	EARLY HEAD EMERGENCE	FULL HEAD EMERGENCE	PRE HARVEST	POST HARVEST
RECOMMENDED	AIM		RAXIL PRO	ET BEACH	ENFORCER M	AXIAL	REZUVANT XL	MIRAVIS NEO	PROSARO		ROUNDUP TRANSORB	DISTINCT
COMM	PREPASS FLEX		VIBRANCE QUATTRO		INFINITY FX	EPIC	AXIAL XTREME	NEXICOR	MIRAVIS ACE		HC	
ž	BLACKHAWK		INSURE CEREAL FX4		PIXXARO	LIQUID ACHIEVE™		TILMOR			AIM	
	VORAXOR				PROMINEX	PUMA ADVANCE						
	SMOULDER				BUCTRIL M							
					TALINOR™							

CEREAL SEED TREATMENT COMPARISON

FUNGICIDE ONLY

	BASF Insure® Cereal FX4	Syngenta Vibrance® Quattro	Bayer Raxil® PRO
Container size(s)	9.8 L, 120 L, 450 L	10 L, 115 L, 450 L	10 L, 58.5 L , 175.5 L
Application Rate mL/100 kg seed	300 mL	325 mL	325 mL
Wheat	120 bu/9.8 L jug	113 bu/10 L jug	113 bu/10 L jug
Barley	150 bu/9.8 L jug	141 bu/10 L jug	141 bu/10 L jug
Oats	212 bu/9.8 L jug	200 bu/10 L jug	200 bu/10 L jug
Active Ingredients	Pyraclostrobin, Triticonazole, Fluxapyroxad, Metalaxyl	Difenoconazole, Metalaxyl-M, Sedaxane, Fludioxonil	Prothioconazole, Tebuconazole, Metalaxyl
Fungicide Group	3, 4, 7, 11	3, 4, 7, 12	3, 4
Insect Control (Need to Tank Mix)	None registered	Cruiser 5FS	Stress Shield
WHEAT DISEASES			
Seed Rot & Damping off caused by:			
Fusarium spp.	С	С	С
Cochliobolus sativus	С	S	С
Pythium spp.	С	С	С
Rhizoctonia	C	С	S
Penicillium		С	S
Aspergillus		С	с

	DIOT		•
	BASF Insure® Cereal FX4	Syngenta Vibrance® Quattro	Bayer Raxil® PRO
WHEAT DISEASES (continued)			
Seedling Blight caused by:			
<i>Fusarium</i> spp.	C	C	C
Pythium spp.	С	С	C
Cochliobolus sativus	S	S	С
Common Root Rot caused by:			
Fusarium spp.	C	C	
Pythium spp.	С	С	
Cochliobolus sativus	S	S	S
Loose Smut	C	C	C
Common Bunt	C	C	C
Fusarium Crown and Foot Rot	S	S	S
Take All		S	
BARLEY DISEASES			
True Loose Smut	C	C	C
False/covered Smut	C	C	C
Common Root Rot	S	S	S
Pythium spp.	C	C	С
Fusarium spp.	C	C	C
Take All		S	
Rhizoctonia	C	C	S
Leaf Stripe			С

CEREAL SEED TREATMENT COMPARISON

FUNGICIDE PLUS INSECTICIDE

	BASF Teraxxa F4	Syngenta Cruiser® Vibrance® Quattro	Nufarm Nipsit™ Suite	Bayer Raxil® PRO Shield
Container size(s)	9.8L, 120L, 450L	10 L, 115 L, 450 L	10L, 115 L	10L, 125 L
Application Rate mL/100 kg seed	300 mL	325 mL	326 mL	325 ml
APPLICATION R	ATE			
Wheat	120 bu/9.8 L jug	113 bu/10 L jug	113 bu/10 L jug	113 bu/10 L jug
Barley	150 bu/9. 8L jug	141 bu/10 L jug		141 bu/10 L jug
Oats	212 bu/9.8 L Jug	200 bu/10 L jug		200 bu/10 L jug
Active Ingredients	Broflanilide, Pyraclostrobin, Triticonazole, Fluxapyroxad, Metalaxyl	Difenoconazole, Metalaxyl-M, Sedaxane, Fludioxonil, Thiamethoxam	Metalaxyl, Metconazole, Clothianidin	Prothioconazole, Tebuconazole, Metalaxyl, Imidacloprid
Insecticide Group	30	4	4	4
Fungicide Group	3, 4, 7, 11	3, 4, 7, 12	3, 4	3, 4
INSECTICIDAL A	CTIVITY			
Wireworm	С	S	S	S
WHEAT DISEASE	ES			
Seed Rot and Dampin	ng Off caused by:			
Fusarium spp.	С	C	С	С
Cochliobolus sativus	С	S	C	C
Pythium spp.	С	C	C	C
Rhizoctonia	С	C		S
Penicillium		C		S
Aspergillus		C		C

	BASF Teraxxa F4	Syngenta Cruiser® Vibrance® Quattro	Nufarm Nipsit™ Suite	Bayer Raxil® PRO Shield
WHEAT DISEA			inport ourto	
Seedling Blight cau	used by:			
<i>Fusarium</i> spp.	C	С	C	С
Pythium spp.	C	C	C	С
Cochliobolus sativus	S	S	S	C
Common Root Rot	caused by:			
<i>Fusarium</i> spp.	C	C	C	
<i>Pythium</i> spp.	C	C	C	
Cochliobolus sativus	S	S	S	S
Loose Smut	C	C	C	С
Common Bunt	C	C	C	С
Fusarium Crown and Foot Rot	S	S		S
Take All		S		
BARLEY DISE	ASES			
True Loose Smut	C	C	C	С
False/covered Smut	c	c	c	c
Common Root Rot	S	S	S	S
Pythium spp.	C	C	C	С
Fusarium spp.	C	C	C	С
Take All		S		
Rhizoctonia	C	C		S
Leaf Stripe				С

PULSES

Get the most out of your crops while reducing risk. Your CAM is here to help.

Great crops start with the right seed treatment, inoculants, and nutrients. Working with your CAM makes it easier to select the right combination to give your crop the strong start it needs to overcome pressures like disease and insects. UFA is here to help you get the highest yield possible from your field.

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	PRE-SEED	PRE-EMERGENCE	SEED	EMERGENCE	IST TO 6TH NODE	10% EARLY FLOWER	50% MID- FLOWER	LATE FLOWER	POD FILL	T0% POD MATURITY	HARVEST	POST HARVEST
NDED	GOLDWING®	VALTERA EZ	VIBRANCE [®] MAXX RFC		ODYSSEY® ULTRA Q		DELARO®				: Reglone® Ion	DISTINCT
RECOMMENDED	HEAT LQ	AUTHORITY	VIBRANCE® TOTAL		VIPER [®] ADV		MIRAVIS NEO				HEAT LQ &	
REC	VORAXOR®	VORAXOR®	INSURE® PULSE		BASAGRAN® FORTE		DYAX®				ROUNDUP TRANSORB	
		COMPLETE	ZELTERA [®] PULSE		CENTURION®						DRIFAST™	
			TRILEX® EVERGOL® (STRESS SHIELD)									

ALWAYS READ AND FOLLOW LABEL DIRECTIONS. All trademarks are the property of their respective owners.

LENTILS CROP STAGE SOLUTIONS

				Ťue							
	PRE-SEED	PRE- EMERGENCE	EB	EMERGENCE	IST TO BTH NODE	EARLY FLOWER	MID-FLOWER	LATE FLOWER	POD FILL	HARVEST	POST HARVEST
8	GOLDWING	VALTERA EZ	VIBRANCE MAXX RFC		SOLO® ULTRA Q	COTEGRA	DELARO			REGLONE ION	DISTINCT
RCOMMENDED	VORAXOR COMPLETE	AUTHORITY	VIBRANCE TOTAL		ODYSSEY ULTRA Q		ELATUS®			DRIFAST	
RCOL	HEAT COMPLETE		INSURE PULSE		SOLO [®] ADV		DYAX				
	HEAT LQ		TRILEX EVERGOL								

PULSE SEED TREATMENT COMPARISON

FUNGICIDE ONLY

	BASF Insure® Pulse	Syngenta Vibrance® Maxx RFC	Syngenta Vibrance® Total	Nufarm Zeltera® Pulse	Bayer Trilex® EverGol®	Bayer EverGol Energy
Container size(s)	9.8 L, 120 L	3.075 L, 56.78 L	10 L, 115 L, 450 L	10 L	Cases: 1.5 L + 0.96 L or 6.49 L + 4.15 L	33.75 L
Application Rate mL/100 kg seed	300 mL	100 mL, 325 mL with water slurry	325 ml	313 ml	Trilex® Jug A 25 mL, Trilex® Jug B 16 mL - Mix with Water	65 ml Mix with Water
APPLICATION RA	TE					
Peas, Lentils, Chickpeas	120 bu/9.8 L jug	113 bu/10 L jug	113 bu/ 10 L jug	120 bu/10 L jug	221 bu/case	1908 bu/drum
Active Ingredients	Fluxapyroxad, Pyraclostrobin, Metalaxyl	Fludioxonil, Sedaxane, Metalaxyl-M, S-isomer	Thiabendazole, Sedaxane, Metalaxyl-M, S-isomer, Fludioxonil, Picarbutrazox	Metalaxyl, Inpyrfluxam, Mandestrobin, Ethanboxam	Penflufen, Trifloxystrobin, Metalaxyl	Metalaxyl, Penflufen, Prothioconazole
Fungicide Group	4, 7, 11	4, 7, 12	1, 4, 7, 12, U17	4, 7, 11, 22	4, 7, 11	3, 4, 7
Insect Control (Tank Mix)	None registered	Cruiser 5FS	Cruiser 5FS	N/A	Stress Shield	Stress Shield

	BASF Insure® Pulse	Syngenta Vibrance® Maxx RFC	Syngenta Vibrance® Total	Nufarm Zeltera® Pulse	Bayer Trilex® EverGol®	Bayer EverGol Energy
PEA DISEASES				1	1	1
Seed and seedling rot/blight	С	С	С	с	с	с
Pythium seed rot/damping off	С	с	С	с	с	с
Seed-borne ascochyta	С	c	С	S	S	с
Aphanomyces (Peas)				S		
LENTIL AND CHIC	KPEA DISEASE	s				
Seed and seedling rot/blight	С	с	С	с	с	с
Pythium seed rot/damping off	С	с	С	с	с	с
Botrytis seed rot and seedling blight	S	с	С		с	с
Seed-borne ascochyta	C	c	C	S	с	с

PULSE SEED TREATMENT COMPARISON

FUNGICIDE PLUS INSECTICIDE

	Syngenta Cruiser® Maxx® Vibrance Pulses	Bayer Trilex® EverGol® SHIELD	Syngenta Cruiser® 5FS	Bayer Stress Shield®	
Container size(s)	23.4L or 56.78 L 2 x 3.075 or 56.78 L	1.5 L + 0.96 L + 6.25 L tri-pack	23.4 L, 56.78 L	27 L	
Application Rate mL/100 kg seed	Vibrance Maxx 325 ml Cruiser 5FS 50 ml	Trilex Jug A 25 mL, Trilex Jug B 16 mL, Stress Shield 104 mL Mix with Water	50 mL*	104 - 208 mL	
APPLICATION RAT	E			·	
Peas, Lentils, Chickpeas	113 bu/jug plus target rate of Cruiser 5FS	221/case	To be mixed with fungicide seed treatments	To be mixed with fungicide seed treatments	
Active ingredients	Thiamethoxam, Fludioxonil, Metalaxyl M, Sedaxane	Imidacloprid, Penflufen, Trifloxystrobin, Metalaxyl	Thiamethoxam	Imidacloprid	
Insecticide Group	4	4	4	4	
Fungicide Group	4, 7, 12	4, 7, 11	N/A	N/A	

* 50 mL is the rate to obtain the 30g/100 kg rate of Cruiser 5FS which is the rate for pea leaf weevil.

	Syngenta	Bayer	INSECTIC	IDE ONLY
	Cruiser Maxx [®] Vibrance Pulses	Trilex® EverGol® SHIELD	Syngenta Cruiser® 5FS	Bayer Stress Shield®
INSECTS				
Pea Leaf Weevil	S	S	S	S
Wireworms	S	S	S	S
PEA DISEASES				
Seed and seedling rot/ blight	С	С		
Pythium seed rot/damping off	C	C		
Seed-borne ascochyta	C	S		
Aphanomyces (Peas)				
LENTIL AND CHICKPEA	DISEASES			
Seed and seedling rot/blight	С	С		
Pythium seed rot/damping off	С	С		
Botrytis seed rot and seedling blight	С			
Seed-borne ascochyta	С	С		

C CONTROL S SUPPRESSION** IN NOT REGISTERED **Suppression means consistent control at a level that is not optimal, but is still of commercial benefit.

INOCULANTS

ARE.C

We're here to help you get the most out of your seed and ensure that your crops get the nutrients they need. With inoculants, your crop will have better root nodule formation, nitrogen fixation, and reduced pest pressure improving your yields.

Talk to your local CAM today. We'll help you find the right inoculant for your growing conditions based on your seed treatment, soil condition and application method.

	BASF	B	ASF Nodulator® XL L	iquid	BASF Nodulato	r® XL Peat	TagTeam®	TagTeam®		TagTeam® Li	quid		TagTeam® Peat		LalFix®		LalFix®
	Nodulator® DUO Solid Core Granular	Tank Mix ¹ time on Seed	Simultaneous	Sequential	Simultaneous	Sequential	BioniQ® Granular	LCO Granular	Tank Mix time on Seed	Simultaneous	Sequential	Tank Mix time on Seed	Simultaneous	Sequential	Spherical Pea & Lentil*	LalFix® Peat Pea & Lentil*	Liquid Pea & Lentil*
Syngenta Vibrance® Maxx		4 hours	2 hours	2 hours	24 hours	24 hours			Not recommended	48 hours for pea, 24 hours for lentil	48 hours for pea, 24 hours for lentil	48 hours for pea, not recommended for lentil	48 hours	48 hours	Compatible	48 Hours	Not yet tested
Bayer Trilex® EverGol®		Not recommended	2 hours	1 hour for pea, 2 hours for lentil	2 hours for pea, 4 hours for lentil	4 hours			Not recommended	Not recommended	Not recommended	48 hours	48 hours	48 hours	Compatible	48 Hours	48 Hours
Bayer Trilex® EverGol® SHIELD	Nodulator®	Not recommended	Not recommended	Not recommended	2 hours	4 hours	TagTeam®	TagTeam®	Not recommended	Not recommended	Not recommended	Not recommended	24 hours for pea, 48 hours for lentil	24 hours for pea, 48 hours for lentil	Compatible	48 Hours	48 Hours
BASF Insure® Pulse	DUO Solid Core Granular is compatible	Not recommended	Not recommended	Not recommended	Not recommended	2 hours	BioniQ® Granular is compatible	LCO Granular is compatible	Not recommended	Not recommended	Not recommended	Not recommended	Not recommended	Not recommended	Compatible	48 Hours	Not recommended
Syngenta Vibrance® Maxx with Intego®	with all pesticide treated seed in furrow.	4 hours	2 hours	2 hours	24 hours	24 hours	with all pesticide- treated seed in furrow.	with all pesticide treated seed in furrow.	Not recommended	Not recommended	Not recommended	48 hours for pea, not recommended for lentil	48 hours	48 hours	Compatible	48 Hours	Not yet tested
Syngenta Vibrance® Maxx RFC		Not available	6 hours	4 hours	24 hours	24 hours			Not recommended	48 hours	48 hours	48 hours	48 hours	48 hours	Compatible	48 Hours	Not yet tested
Syngenta Cruiser Maxx® Vibrance® Pulses		Not recommended	Marginal	Not recommended	6 hours	6 hours			Not recommended	48 hours	48 hours				Compatible	48 Hours	24 Hours

TANK MIX

The inoculant is mixed with the seed treatment in a single tank and applied as one solution or suspension using the same applicator. The inoculant and seed treatment can be tank mixed for a period of time before application to the seed.

SIMULTANEOUS (WET SEQUENTIAL)

The inoculant and seed treatment are applied at the same time, from separate tanks. They must be applied by separate applicators to be defined as a simultaneous or wet sequential application.

DRY SEQUENTIAL

One product is applied first and allowed to dry, before the second product is applied. This can be a seed treatment followed by an inoculant or inoculant followed by a seed treatment. Drying time will vary based on formulation, relative air humidity and other factors. A minimum 30 minutes is typical, but it may take up to a day.

*Seeds were treated with chemical products at rates according to the manufacturer's recommendation as a dry sequential application and were stored at 4°C. Always read and follow label directions. All trademarks are the property of their respective owners.

1 These on-seed shelf life recommendations are based on a maximum of four - hour tank-mix period. Always read and follow label directions. All trademarks are the property of their respective owners.



Lallemand brings a new kind of inoculant to the table for peas and lentils. LALFIX® Start for Peas, Lentils & Faba is a high quality dual-action, in-furrow spherical inoculant with viable *Rhizobium leguminosarum* biovar *viciae* cells per gram.

LALFIX® Start for Peas, Lentils & Faba brings a number of enhancements over traditional granular inoculants:

- Technologically advanced spherical granule
- Provides accurate inoculant placement while increasing granule durability and Rhizobia survival
- Low dust partition allows for even application
- Selected Rhizobium leguminosarum strains enables the plants to start fixing nitrogen earlier and more efficiently
- Better crop establishment and enhanced yields

LALFIX® START SPHERICAL PEA & LENTIL LALFIX® SPHERICAL PEA - FABA - LENTIL

ſ	David	W. JEL	Decement		(Area treated - acros (ba)		
	ROW	Width	Recomme	ended Rate	(granular)	Area treated - acres (ha)			
	in	cm	lbs/ac	kg/ac	kg/ha	Bag	Tote		
	6	15	4.4	2	5	6.1 (2.5)	196 (79.3)		
	7	18	3.8	1.7	4.3	7.1 (2.9)	227 (91.8)		
	8	20	3.3	1.5	3.7	8.2 (3.3)	262 (106)		
	9	23	3	1.4	3.3	9.0 (3.6)	288 (116.5)		
	10	25	2.7	1.2	3	10.0 (4.0)	320 (129.5)		
	12	30	2.2	1	2.5	12.3 (5.0)	393 (159)		

LALFIX[®] START SPHERICAL PEA & LENTIL

is a high quality, dual-strain sterile peat powder inoculant that contains a select peat carrier that aids in the adhesion of the inoculant to the seed. This product can be applied on the seed through a variety of application methods that suit the grower's requirements.

27 lbs (12.2 kg)	432 lbs (196 kg)
Application Rate: In Furrow	Application Rate: In Furrow
0.81 oz per 1,000 feet of row	0.81 oz per 1,000 feet of row
10" row spacing = 2.7 lbs/ac (1 bag treats 10 acres)	10" row spacing = 2.7 lbs/ac (1 tote treats 160 acres)

LALFIX® SPHERICAL PEA - FABA - LENTIL contains two strains of Rhizobium leguminosarum biovar viciae selected for enhanced performance and competitiveness in pea, lentil, and faba bean production. These two strains are known to nodulate pea, lentil, and faba bean roots and fix atmospheric nitrogen in a symbiotic relationship with the plant. BASF continues to provide inoculants and biologicals backed by research, development and innovative technologies that benefit growers by improving nodulation, nitrogen-fixation, root vigor, nutrient uptake and yield potential.

NODULATOR XL LIQUID

We create chemistry

Application Rates – Light formulation:

- One case contains 3 x 7.5L bladders
- One case will treat 300 bushels of seed.

On-Seed Liquid Application

Inoculant Flow	w Rate (liquid)	Seed/Auger Flow Rate							
mL/min	fl. oz./min	kg/min	lbs (bu)/min						
360	12	131	289 (5)						
860	29	313	690 (11)						
1340	45	487	1074 (18)						
1660	56	604	1332 (22)						
1780	60	647	1426 (24)						
2030	68	738	1627 (30)						
	mL/min 360 860 1340 1660 1780	360 12 860 29 1340 45 1660 56 1780 60	mL/min fl. oz./min kg/min 360 12 131 860 29 313 1340 45 487 1660 56 604 1780 60 647						

BASE Nodulator

Inoculant

Data provided by BASF Canada Inc.

In-Furrow Liquid Application

Row Spacing		Applicat	ion Rate	Area Treated per Case		
cm	in	L/ha	L/ac	ha	ac	
15.2	6	6.5	2.6	1.2	2.9	
17.8	7	5.5	2.2	1.4	3.3	
20.3	8	4.9	2	1.5	3.8	
22.9	9	4.3	1.7	1.7	4.3	
25.4	10	3.9	1.6	1.9	4.8	
27.9	11	3.5	1.4	2.1	5.2	
30.5	12	3.2	1.3	2.3	5.7	

We create chemistry Inoculant

NODULATOR XL PEAT

Application Rates - Sterile peat formulation:

- One case contains 3 x 1.2 kg packages
- One case will treat 110 bushels of seed
- The standard rate of application is 1.2 kg per 600 kg of seed

On-Seed Peat Application

Application Method	Recommendations
Slurry	Add complete pack contents to approximately 2 litres of clean, dechlorinated water and stir well in a clean container to form a lump-free slurry. Not allowing slurry to settle out, pour onto the seed and mix thoroughly to ensure the seeds are evenly coated. Allow seed to dry before further handling.
Damp	Apply just enough water to slightly dampen seed (2 mL/kg). Mix the damp seed thoroughly with the inoculant so that they are evenly coated.
Dry	Pour the correct amount of inoculant onto thin layers of seed in the drill hopper and mix thoroughly to evenly coat seed. For bulk seed handling systems, the inoculant can be metered directly onto augured seed.

Data provided by BASF Canada Inc.

BASF Nodulator[®]

We create chemistry Inoculant

NODULATOR DUO SCG

Application Rates - Solid Core Granule Formulation:

- One bag will treat 10.6 acres (7" rows) to 18.5 acres (12" rows)
- One Q-Pak will treat 170 acres (7" rows) to 18.5 acres (12" rows)
- Apply granular inoculant at a rate of 28.5 g/1,000 linear row feet

Row S	Row Spacing		ion Rate	Area Treated per Bag		
cm	in	kg/ha	lb/ac	ha	ас	
15.2	6	6.2	5.6	3.7	8.9	
17.8	7	5.3	4.7	4.3	10.6	
20.3	8	4.6	4.1	4.9	12.2	
22.9	9	4	3.6	5.7	13.9	
25.4	10	3.7	3.3	6.1	15.2	
27.9	11	3.4	3	6.7	16.7	
30.5	12	3	2.7	7.6	18.5	

Data provided by BASF Canada Inc.

In-Furrow Granular Application

NexusBioAg

NexusBioAg offers leading crop nutrion solutions for your unique operation. Through best-in-class capability, a strong team-oriented approach, a commitment to agricultural integrity, NexusBioAg is helping customers innovate and grow an increasingly dynamic agriculatural environment.

TAGTEAM® LCO Granular Application Rates

Pea/Lentil	18 kg (39.	68 lb) bag	454 kg (1,001 lb)
Row Spacing (in)	ac/bag	lb/ac	ac/bag	lb/ac
7	8.4	4.7	213	4.7
8	9.7	4.1	244.1	4.1
9	11	3.6	278.1	3.6
10	12	3.3	303.3	3.3
12	14.7	2.7	370.7	2.7
15	18	2.2	455	2.2
	Row Spacing (in) 7 8 9 10 12	Row Spacing (in) ac/bag 7 8.4 8 9.7 9 11 10 12 12 14.7	Row Spacing (in) ac/bag Ib/ac 7 8.4 4.7 8 9.7 4.1 9 11 3.6 10 12 3.3 12 14.7 2.7	Row Spacing (in) ac/bag Ib/ac ac/bag 7 8.4 4.7 213 8 9.7 4.1 244.1 9 11 3.6 278.1 10 12 3.3 303.3 12 14.7 2.7 370.7

TAGTEAM® BIONIQ® Granular Application Rates

Pea/Lentil	18 kg (39.	68 lb) bag	454 kg ((1,001 lb)				
Row Spacing (in)	lb/ac	ac/bag	ac/bag	lb/ac				
6	7.2	5.5	182.0	5.5				
7	8.4	4.7	213.0	4.7				
8	9.7	4.1	244.1	4.1				
9	11.0	3.6	278.0	3.6				
10	12.0	3.3	303.3	3.3				
12	14.7	2.7	370.7	2.7				
15	18.0	2.2	455.0	2.2				

TAGTEAM® LIQUID Application Rates

		Amount of seed treated/bag			
Сгор	Size	bu	lb	Units	
Pea/Lentil	3.0 L + 57 g WP	40	2,400	-	

TAGTEAM® PEAT Application Rates

			Amount of treated/bag			Water
Сгор		Bag Size	bu	lb	Units	rate*
Chickpe	а	2.20 kg	50	3,000	-	4
Lentil		2.20 kg	30	1,800	-	2.5
Pea		2.20 kg	50	3,000	-	4
Soybea	n	2.45 kg	33	2,000	40	3

*Approximate water volume for peat slurry application.

Data provided by NexuBioAg

Dieselex Gold Power + Efficiency + Protection

PLUS

patronage

SEE THE DIFFERENCE. AND FEEL IT TOO.

Run Dieselex Gold for two or three tanks and feel the difference in your diesels. With Dieselex Gold in your tank, the more hours your engine works, the more our unique additives work to clean fuel injectors and restore horsepower.



66 We know that we were burning 0.55 litres less fuel per acre using Dieselex Gold. 퇫

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MATT SAWYER Sawyer Farms



FUE



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