

WHORL™ EC TANK-MIX COMPATIBILITY IN WINTER WHEAT

PLEASE ENSURE YOU READ THE NOTES SECTION BELOW
This version supersedes all previous editions

Scroll down for winter barley, spring wheat & spring barley compatibilities

FOR FINISH SX READ ACROSS TO ALLY MAX SX, ALIAS SX, COUNTER SX AND JUBILEE SX

Corteva Agriscience would support the replacement of fluroxypyr for Whorl in the following mixes in all winter wheat varieties.

- Whorl + ALS herbicide (Finish sx or Lector) + Fungicide + PGR (see below for PGR rates)
- Whorl + ALS herbicide + 1 Fungicide + Trace element + adjuvant
- Whorl + ALS herbicide + 2 Fungicides + Trace element
- Whorl + 2 fungicides + 2 trace elements
- Whorl + ALS herbicide (Finish SX or Lector) + 2 Fungicides + PGR of choice
- Whorl + ALS herbicide + 2 Trace elements + PGR of choice
- Whorl + ALS herbicide + 1 Fungicide + Trace element + PGR of choice

Corteva Agriscience will provide the following support:

- The physical compatibility of the mix
- The crop selectivity of the mix
- The efficacy of the Whorl

PGR could be any of the following:

- 950g ai/ha CCC + Optimus 285ml/ha (Optimus read across from Moddus at 0.2l/ha ie 50g ai/ha trinexapac)
- Optimus 285ml/ha (Optimus read across from Moddus at 0.2l/ha ie 50 g ai/ha trinexapac)
- CCC alone – any rate
- Medax Max up to 0.5 kg/ha
- Medax Max + CCC up to 0.3 kg + 1.0 l/ha
- Canopy up to 0.8 L/ha
- Canopy + CCC up to 0.8 + 1.2L/ha
- Terpal up to 1.0 L/ha + adjuvant

In addition Agrovista agrees to provide feedback on the above mixes both during the season of use and at the end of the season to enhance guidance for the forthcoming season. Where a mix above is causing adverse effects there is an agreement by all parties to communicate this in a timely manner to minimise further use of that particular mix.

BOLD CAPITALS = Physically & Biologically Compatible	<i>(Italics in brackets)</i> = Sprayable with Continuous Agitation	Red on Blue = PHYSICALLY INCOMPATIBLE
Normal = Physically Compatible	(BOLD ITALICS IN BRACKETS) = Biologically compatible - maintain constant agitation	RED CAPITAL ON BLUE = CROP INJURY

Adjuvants

ADIGOR 0.5%	PHASE II	Spryte Aqua CF
BIOPOWER	SPOS88	TOIL
BIO SYL	Spraymate	WET-CIT
KANTOR	SPRYTE AQUA	Zarado
MSOs		

Herbicides - FOR ALLY MAX SX READ ACROSS TO ALIAS SX, ANSWER SX, AVRO SX, BIPLAY SX, CHIMERA SX, CLEANROC MONDIAL, FINISH SX, GROPPER SX, INKA SX, JUBILEE SX, LORATE, PRESITE SX, RATIO SX, REFINO MAX SX, SIMBA SX, TRATON SX. FOR HARMONY M SX READ ACROSS TO CONCERT SX, MOSAIC SX AND PENNANT. FOR HORUS READ ACROSS TO ATLANTIS OD AND HATRA

ALLY MAX SX	BROADWAY STAR + STOMP AQUA + BIOSYL	LIBERATOR
ATLANTIS OD + BIOPOWER	CYCLOPS + HORUS + BIOPOWER	MIRCAM PLUS
ATLANTIS OD + CYCLOPS + BIOPOWER	DEFY + HORUS + BIOPOWER	OPTICA TRIO
ATLANTIS OD + DEFY + BIOPOWER	DUPLOSAN KV	<i>(Pacifica Plus)</i>
ATLANTIS OD + HURRICANE + BIOPOWER	EASEL	<i>(Pacifica WG)</i>
ATLANTIS OD + LIBERATOR + BIOPOWER	HORUS + BIOPOWER	PICONA + BIOSYL
ATLANTIS OD + PICONA + BIOPOWER	HORUS + HURRICANE + BIOPOWER	PRESITE SX
ATLANTIS OD + STOMP 400SC + BIOPOWER	HORUS + LIBERATOR + BIOPOWER	<i>(Proverb)</i>
ATLANTIS OD + STOMP AQUA + BIOPOWER	HORUS + PICONA + BIOPOWER	PROMPT
<i>(Axial Pro)</i>	HORUS + STOMP 400 SC + BIOPOWER	RATIO SX
BROADWAY STAR + BIOSYL	HORUS + STOMP AQUA + BIOPOWER	REFINE MAX SX
BROADWAY STAR + CYCLOPS + BIOSYL	HURRICANE	SAXON
BROADWAY STAR + HURRICANE + BIOSYL	HURRICANE + TOPIK 240 EC + ACTIROB	STOMP 400 SC
BROADWAY STAR + LIBERATOR + BIOSYL	HYPRONE P	STOMP AQUA
BROADWAY STAR + PICONA + BIOSYL	Inka SX + Optica Trio	TOPIK 240 EC + ACTIROB
BROADWAY STAR + STOMP 400 SC + BIOSYL	ISOMEC ULTRA	

Fungicides

Aderya XE#	Diadem XE#	<i>(Lentyma XE + Mojave)</i>
Ascra Xpro	Elatus Era	Librax
ASCRA XPRO + COMET 200	FOLICUR	MANITOBA + TALUIS
AVIATOR 235 XPRO + COMET	FOLICUR + PROLINE	Mivvyto + Lincano#
BOOGIE XPRO + COMET 200	FOLICUR + PROSARO	Mobius
CELLO	HELIX	<i>(Mojave)</i>
CELLO + FOLICUR	Helix + Imtrex	<i>(Mojave + Revystar XE)</i>
COMET 200	Helix + Mobius	Phoenix
COMET 200 + Elatus Era	Helix + Swift SC	PROLINE
COMET 200 + HELIX	Imperis XE + Lenvyor Duo + Phoenix#	PROSARO
COMET 200 + LIBRAX	Imtrex	<i>(Protefin)</i>
COMET 200 + PROLINE	Imtrex + Kestrel	Provyto XE#
COMET 200 + PROSARO	IMTREX + PROLINE	<i>(Revystar XE)</i>
COMET 200 + SKYWAY 235 XPRO + AQUASCOPE	JAUNT	SKYWAY XPRO + AQUASCOPE + ACTIVATOR 90
COMET 200 + SKYWAY XPRO + AQUASCOPE + ACTIVATOR 90	Kestrel	TALIUS
COMET 200 + VARIANO XPRO	Kestrel + Mobius	<i>(Unix)</i>
CYFLAMID + MANITOBA	Kestrel + Swift SC	VAREON
	<i>(Lentyma XE)</i>	Verdyor XE#

Insecticides

HALLMARK WITH ZEON	PERMASECT 500 EC	SUMI-ALPHA
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Plant Growth Regulators - Do not apply in mix with Whorl if crop under stress. Only use chlormequat products approved for use on winter wheat

CANOPY 1l/ha	CHLORMEQUAT + MODDUS 0.2L/HA	METEOR
CANOPY + CHLORMEQUAT	CHLORMEQUAT + MODDUS 0.4L/HA	MODDUS 0.2L/HA
CERONE 0.5L/HA	MEDAX MAX 0.5KG/HA	TERPAL 1.0L/HA + ACTIVATOR 90
CHLORMEQUAT	MEDAX MAX 0.75KG/HA	

Trace Elements

Bittersalt	<i>(Magflo 300)</i>	<i>(Nutriwise HiQ)</i>
<i>(Bortrac)</i>	<i>(Magphos K)</i>	<i>(Nutriwise Mag Nite)</i>
<i>(Brassitrel)</i>	<i>(Maize Boost)</i>	<i>(Nutriwise Maxstim)</i>
<i>(Croplift)</i>	<i>(Mancozin)</i>	<i>(Nutriwise PK Plus)</i>
<i>(Croprel)</i>	<i>(Mancufla)</i>	<i>(Photrel Pro)</i>
<i>(Ferleaf)</i>	<i>(Mantrac DF)</i>	<i>(Safe N 300)</i>
FMC COPPER	<i>(Mantrac Pro)</i>	<i>(Stopfl)</i>
FMC JETT	<i>(Multiple Pro)</i>	<i>(Zntrac 700)</i>
<i>(Foliar Potash)</i>	N-Lock	Universal Bio
<i>(Gramitrel)</i>	<i>(Nutriwise Copper)</i>	Verdicrop 4-Yield Extra

Human Z50		(Nutriwise Fosfitya)		Vytel Liquid Copper	
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COMBINATION MIXES					
HERBICIDES PLUS FUNGICIDES					
ALLY MAX SX + FANDANGO		HURRICANE + BOOGIE XPRO + COMET 200 200		Optica Trio + Helix	
Ally Max SX + Imperis XE + Lenvyor Duo + Phoenix#		HURRICANE + CAPALO + COMET 200		OPTICA TRIO + IMITREX + PROSARO	
ALLY MAX SX + IMITREX + PROSARO		HURRICANE + COMET 200		Optica Trio + Kestrel	
ALLY MAX SX + MOBIUS		HURRICANE + COMET 200 + HELIX		Optica Trio + Manitoba	
ALLY MAX SX + PROSARO		HURRICANE + COMET 200 + LIBRAX		OPTICA TRIO + TALIUUS	
ALLY MAX SX + TALIUUS		HURRICANE + COMET 200 + PROLINE		Optica Trio + Vareon	
CHIMERA SX + FANDANGO		HURRICANE + COMET 200 + SKYWAY 285 XPRO		PROMPT + IMITREX + PROSARO	
DUPLOSAN KV + PROSARO		HURRICANE + COMET 200 + VARIANO XPRO		(Prompt + Manitoba)	
DUPLOSAN KV + TALIUUS		HURRICANE + PROSARO		PROMPT + PROLINE	
Gartrel + Jaunt		Inka SX + Helix		PROMPT + TALIUUS	
Gartrel + Librax		Inka SX + Kestrel		Prompt + Vareon	
Gartrel + Variano Xpro		Inka SX + Manitoba		RATIO SX + FANDANGO	
HARMONY M SX+ HELIX + IMITREX		Inka SX + Vareon		RATIO SX + IMITREX + PROSARO	
HARMONY M SX+ HELIX		Isomec Ultra + Helix		RATIO SX + PROSARO	
HARMONY M SX + HELIX + MOBIUS		Isomec Ultra + Kestrel		SAXON + IMITREX + PROSARO	
HARMONY M SX + IMITREX + PROSARO		Isomec Ultra + Manitoba		(Saxon + Manitoba)	
HARMONY M SX + MOBIUS + PROSARO		Isomec Ultra + Vareon		SAXON + PROLINE	
HARMONY M SX + PROSARO		MIRCAM PLUS + PROSARO		SAXON + TALIUUS	
HURRICANE + AVIATOR 235 XPRO + COMET 200		MIRCAM PLUS + TALIUUS		Saxon + Vareon	

HERBICIDES PLUS FUNGICIDES AND TRACE ELEMENTS					
ALLY MAX SX + PROLINE + FMC JETT		HARMONY M SX + HELIX + IMITREX + HUMAN Z50		PROMPT + PROLINE + FMC JETT	
ALLY MAX SX + PROLINE + FMC MANGANESE		HARMONY M SX + HELIX + MOBIUS + HUMAN Z50		PROMPT + PROLINE + FMC MN 400	
ALLY MAX SX + TALIUUS + FMC JETT		HARMONY M SX + HELIX + SWIFT SC + HUMAN Z50		PROMPT + TALIUUS + FMC JETT	
CYCLOPS + TALIUUS + FMC JETT		HARMONY M SX + IMITREX + PROSARO + HUMAN Z50		PROMPT + TALIUUS + FMC MN 400	
CYCLOPS + TALIUUS + FMC MN 400		HARMONY M SX + MOBIUS + PROSARO + HUMAN Z50		SAXON + PROLINE + FMC JETT	
DUPLOSAN KV + PROLINE + FMC JETT		HARMONY M SX + PROSARO + HUMAN Z50		SAXON + PROLINE + FMC MN 400	
DUPLOSAN KV + PROSARO + FMC JETT		HARMONY SX + PROSARO + SWIFT SC + HUMAN Z50		SAXON + TALIUUS + FMC JETT	
DUPLOSAN KV + TALIUUS + FMC JETT		MIRCAM PLUS + TALIUUS + FMC MN 400		SAXON + TALIUUS + FMC MN 400	
DUPLOSAN KV + TALIUUS + FMC MN 400		OPTICA TRIO + TALIUUS + FMC JETT			
HARMONY M SX + HELIX + HUMAN Z50		OPTICA TRIO + TALIUUS + FMC MN 400			

HERBICIDES PLUS FUNGICIDES AND PLANT GROWTH REGULATORS					
ALLY MAX SX + FANDANGO + CHLORMEQUAT		CYCLOPS + TALIUUS + CHLORMEQUAT		HARMONY M SX + MOBIUS + CHLORMEQUAT	
ALLY MAX SX + PROLINE + CHLORMEQUAT		DUPLOSAN KV + TALIUUS + CHLORMEQUAT		MIRCAM PLUS + TALIUUS + CHLORMEQUAT	
ALLY MAX SX + PROSARO + CHLORMEQUAT		Gartrel + Variano Xpro + Chlormequat + Moddus 0.2l/ha		OPTICA TRIO + TALIUUS + CHLORMEQUAT	
CYCLOPS + FANDANGO + CHLORMEQUAT		Gartrel + Jaunt + 3C 750 chlormequat		Prompt + Talius + Chlormequat	
		Gartrel + Jaunt + Moddus		Saxon + Talius + Chlormequat	

HERBICIDES PLUS FUNGICIDES AND PLANT GROWTH REGULATORS AND TRACE ELEMENTS					
ALLY MAX SX + PROLINE + CHLORMEQUAT + FMC MANGANESE		CYCLOPS + FANDANGO + CHLORMEQUAT + FMC JETT		DUPLOSAN KV + CHLORMEQUAT + FMC JETT	
ALLY MAX SX + PROSARO + CHLORMEQUAT + FMC JETT		CYCLOPS + FANDANGO + CHLORMEQUAT + FMC MN 400		SAXON + TALIUUS + CHLORMEQUAT + FMC MN 400	

HERBICIDES PLUS PLANT GROWTH REGULATORS					
ALLY MAX SX + CANOPY		Gartrel + Chlormequat		Inka SX + Chlormequat	
ALLY MAX SX + CERONE		Gartrel + Moddus		ISOMEC ULTRA + CHLORMEQUAT	
ALLY MAX SX + CHLORMEQUAT		HARMONY M SX + CANOPY		MIRCAM PLUS + CHLORMEQUAT	
ALLY MAX SX + CHLORMEQUAT + MODDUS 0.2L/HA		HARMONY M SX + CHLORMEQUAT		OPTICA TRIO + CHLORMEQUAT	
ALLY MAX SX + CHLORMEQUAT + MODDUS 0.4L/HA		HARMONY M SX + CHLORMEQUAT + MODDUS 0.4L/HA		PROMPT + CHLORMEQUAT	
ALLY MAX SX + MEDAX MAX 0.5KG.HA		HARMONY M SX + METEOR		RATIO SX + CANOPY	
ALLY MAX SX + METEOR		HARMONY M SX + TERPAL 1l/ha + ACTIVATOR 90		RATIO SX + CERONE	
ALLY MAX SX + TERPAL 1l/ha + ACTIVATOR 90		HURRICANE + CANOPY		RATIO SX + CHLORMEQUAT	
CHIMERA SX + CERONE		HURRICANE + CHLORMEQUAT + MODDUS 0.2L/HA		RATIO SX + CHLORMEQUAT + MODDUS 0.4L/HA	
CHIMERA SX + TERPAL 1l/ha + ACTIVATOR 90		HURRICANE + METEOR		RATIO SX + METEOR	
DUPLOSAN KV + CHLORMEQUAT		HURRICANE + MODDUS 0.2L/HA		RATIO SX + TERPAL 1l/ha + ACTIVATOR 90	
		HURRICANE + TERPAL + ACTIVATOR 90		SAXON + CHLORMEQUAT	

HERBICIDES PLUS PLANT GROWTH REGULATORS AND TRACE ELEMENTS					
ALLY MAX SX + CHLORMEQUAT + FMC COPPER		HARMONY M SX + CHLORMEQUAT + FMC COPPER		PICONA + CHLORMEQUAT + FMC JETT	
ALLY MAX SX + CHLORMEQUAT + FMC JETT		HARMONY M SX + CHLORMEQUAT + FMC JETT		PROMPT + CHLORMEQUAT + FMC JETT	
ALLY MAX SX + CHLORMEQUAT + FMC MN 400		HARMONY M SX + CHLORMEQUAT + FMC MN 400		PROMPT + CHLORMEQUAT + FMC MN 400	
CHIMERA SX + CHLORMEQUAT + FMC COPPER		HURRICANE + CHLORMEQUAT + FMC COPPER		RATIO SX + CHLORMEQUAT + FMC COPPER	
CHIMERA SX + CHLORMEQUAT + FMC JETT		HURRICANE + CHLORMEQUAT + FMC JETT		RATIO SX + CHLORMEQUAT + FMC JETT	
CHIMERA SX + CHLORMEQUAT + FMC MN 400		HURRICANE + CHLORMEQUAT + FMC MN 400		RATIO SX + CHLORMEQUAT + FMC MN400	
CYCLOPS + CHLORMEQUAT + FMC JETT		MIRCAM PLUS + CHLORMEQUAT + FMC JETT		REFINE MAX SX + CHLORMEQUAT + FMC JETT	
CYCLOPS + CHLORMEQUAT + FMC MN 400		MIRCAM PLUS + CHLORMEQUAT + FMC MN 400		REFINE MAX SX + CHLORMEQUAT + FMC MN 400	
DUPLOSAN KV + CHLORMEQUAT + FMC JETT		OPTICA TRIO + CHLORMEQUAT + FMC JETT		SAXON + CHLORMEQUAT + FMC JETT	
DUPLOSAN KV + CHLORMEQUAT + FMC MN 400		OPTICA TRIO + CHLORMEQUAT + FMC MN 400		SAXON + CHLORMEQUAT + FMC MN 400	

HERBICIDES PLUS TRACE ELEMENTS					
ALLY MAX SX + FMC JETT		HORUS + FMC JETT + BIOPOWER		Isomec Ultra + Vytel Liquid Copper	
ALLY MAX SX + FMC MN 400		HORUS + FMC MN 400 + BIOPOWER		Optica Trio + FMC Copper	
ATLANTIS OD + FMC JETT + BIOPOWER		Inka SX + FMC Copper		Optica Trio + Vytel Liquid Copper	
ATLANTIS OD + FMC MN 400 + BIOPOWER		Inka SX + Human Z50		Optica Trio + Human Z50	
BROADWAY STAR + FMC JETT + BIOSYL		Inka SX + Verdicrop 4-Yield Extra		Optica Trio + Verdicrop 4-Yield Extra	
BROADWAY STAR + FMC MN 400 + BIOSYL		Inka SX + Vytel Liquid Copper		Prompt + FMC Copper	
HARMONY M SX + FMC JETT		Isomec Ultra + FMC Copper		Prompt + Human Z50	
HARMONY M SX + FMC MN 400		Isomec Ultra + Human Z50		Saxon + FMC Copper	
		Isomec Ultra + Verdicrop 4-Yield Extra		Saxon + Human Z50	

FUNGICIDES PLUS INSECTICIDES					
Ascra Xpro + COMET 200 + Hallmark with Zeon*		FANDANGO + HALLMARK WITH ZEON			
COMET 200 + Elatus Era + Hallmark with Zeon		PROSARO + HALLMARK WITH ZEON			

FUNGICIDES PLUS PLANT GROWTH REGULATORS					
Aderya XE + chlormequat + Medax Max#		Kestrel + Chlormequat		SKYWAY XPRO + AQUASCOPE + CERONE	
ARIZONA + CHLORMEQUAT		Lentyrna XE + chlormequat + Medax Max#		SKYWAY 285 XPRO + AQUASCOPE + CHLORMEQUAT	
Ascra Xpro + COMET 200 + Terpal		MANITOBA + AQUASCOPE + CHLORMEQUAT		SKYWAY XPRO + AQUASCOPE + TERPAL + ACTIVATOR 90	
COMET 200 + Elatus Era + Terpal		MANITOBA + AQUASCOPE + CANOPY 0.5L/HA + CHLORMEQUAT		SKYWAY XPRO + CANOPY 0.5L/HA + CHLORMEQUAT	
COMET 200 + FANDANGO + TERPAL 1L/HA		MANITOBA + CHLORMEQUAT + MODDUS 0.2L/HA		SKYWAY XPRO + CHLORMEQUAT + MODDUS 0.2L/HA	
Diadem XE + chlormequat + Medax Max#		Provyto XE + chlormequat + Medax Max#		Vareon + Chlormequat	
Diadem XE + chlormequat + Moddus#		Provyto XE + chlormequat + Moddus#		Verydor XE + chlormequat + Medax Max#	
Helix + Chlormequat		Revystar XE + chlormequat + Medax Max#		Verydor XE + chlormequat + Moddus#	
IMITREX + PROLINE + TERPAL + ACTIVATOR 90		Revystar XE + chlormequat + Moddus#			

FUNGICIDES PLUS TRACE ELEMENTS					
ARIZONA + FOLICUR + FMC JETT		ARIZONA + FMC MN 400			
ARIZONA + FMC COPPER		MOBIUS + HUMAN Z50			
ARIZONA + FMC JETT					

PLANT GROWTH REGULATORS PLUS TRACE ELEMENTS					
Chlormequat + FMC Copper		Chlormequat + Verdicrop 4-Yield Extra			
Chlormequat + Human Z50		Chlormequat + Vytel liquid Copper			

This summary sheet provides information on tank-mixes conducted with this product. Corteva Agriscience™ gives no warranty or accepts no liability in respect to compatibilities that are beyond the label. This additional information is for guidance purposes only and use is at grower's risk.

Important Note: Do not use any tank-mix if the mixture cannot be applied within the recommendations for individual products or if specific tank-mix restrictions apply.

Larger, more complicated mixes; unlisted mixes or replacing alternative products to those listed in this table are not endorsed. However, for further information or to register a tank-mix request please contact your local Corteva representative or call the Technical Hotline on 0800 689 8899

CORTEVA AGRISCIENCE

Physical compatibility data is based on the results of an industry recognised standard test. Be aware that in the field, water hardness, PH, temperature etc. can vary. Biological compatibility data are based on a small number of field trials, Corteva Agriscience™ cannot

warrant the efficacy of other tank-mix partners. Where only Physical Compatibility or Spray able with Continuous Agitation is shown, Corteva Agriscience™ has no biological data regarding efficacy or crop safety and only has data on physical compatibility, so growers use these mixes at their own risk.

Notes
- Check mixing order with BASF

Changes
14th May - updated PGR comments; 24th March 2021 - addition of Multiple Pro, Protefin, Proverb and Unix; 22nd April 2021 - removal of withdrawn products; 17th May 2021 - addition of Jaunt; 9th March 2022 - Removal of withdrawn products. Addition of Spryte Aqua CF; Spraymate and Zarado, based on information received from De Sangosse; 22nd May 2023 - addition of Revystar products, based on information received from BASF

USE PLANT PROTECTION PRODUCTS SAFELY. ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE.
FOR FURTHER INFORMATION INCLUDING WARNING PHRASES AND SYMBOLS PLEASE REFER TO THE PRODUCT LABEL
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All other brand names are trademarks of other manufacturers for which proprietary rights may exist.
™ Trademark of Corteva Agriscience and its affiliated companies
Whorl contains fluroxypyr + halauxifen-methyl
Technical Hotline: 0800 689 8899 | ukhotline@corteva.com | corteva.co.uk

WHORL® TANK-MIX COMPATIBILITY IN WINTER BARLEY

PLEASE ENSURE YOU READ THE NOTES SECTION
This version supersedes all previous editions

FOR FINISH SX READ ACROSS TO ALLY MAX X, ALIAS SX, COUNTER SX AND JUBILEE SX.

Corteva Agriscience would support the replacement of fluroxypyr for Whorl in the following mixes in all winter barley varieties.

- Whorl + ALS herbicide (Finish SX or Lector) + Fungicide + PGR (see below for PGR rates)
- Whorl + ALS herbicide + 1 Fungicide + Trace element + adjuvant
- Whorl + ALS herbicide + 2 Fungicides + Trace element
- Whorl + 2 fungicides + 2 trace elements

Corteva Agriscience will provide the following support:

- The physical compatibility of the mix
- The crop selectivity of the mix
- The efficacy of the Whorl

PGR could be any of the following:

- 950g ai/ha CCC + Optimus 285ml/ha (Optimus read across from Moddus at 0.2 L/ha ie 50g ai/ha trinexapac)
- CCC alone – any rate
- Medax Max up to 0.5 kg/ha
- Canopy up to 0.8 L/ha
- Optimus 285ml/ha (Optimus read across from Moddus at 0.2 L/ha ie 50g ai/ha trinexapac)
- Terpal up to 1.0 L/ha + adjuvant

In addition Agrovista agree to provide feedback on the above mixes both during the season of use and at the end of the season to enhance guidance for the forthcoming season. Where a mix above is causing adverse effects there is an agreement by all parties to communicate this in a timely manner to minimise further use of that particular mix.

BOLD CAPITALS = Physically & Biologically Compatible	<i>(Italics in brackets) = Sprayable with Continuous Agitation</i>	Red on Blue = PHYSICALLY INCOMPATIBLE
Normal = Physically Compatible	(BOLD ITALICS IN BRACKETS) = Biologically compatible - maintain constant agitation	RED CAPITAL ON BLUE = CROP INJURY

Adjuvants

ADIGOR 0.5%	PHASE II	Spryte Aqua CF
BIOWPOWER	SPO588	TOIL
BIO SYL	Spraymate	WET-CIT
KANTOR	SPRYTE AQUA	Zarado
MSOs		

Herbicides - FOR ALLY MAX SX READ ACROSS TO ALIAS SX, ANSWER SX, AVRO SX, BIPLAY SX, CHIMERA SX, CLEANCROP MONDIAL, FINISH SX, GROPPER SX, INKA SX, JUBILEE SX, LORATE, PRESITE SX, RATIO SX, REFINE MAX SX, SIMBA SX, TRATON SX.

ALLY MAX SX	HYPRONE P	PICONA
<i>(Axial Pro)</i>	Inka SX + Optica Trio	PRESITE SX
DUPOSAN KV	ISOMEC ULTRA	PROMPT
EASEL	MIRCAM PLUS	RATIO SX
HURRICANE	OPTICA TRIO	REFINE MAX SX
		SAXON

Fungicides

Ascra Xpro	HELIX	Kestrel + Zulu
BONTIMA	Helix + Imtrex	Librax
BONTIMA + COMET 200	Helix + Mobius	MANITOBA
BONTIMA + COMET 200 + PROLINE	Helix + Swift	PROLINE
Bontima + Siltra Xpro	Helix + Zulu	PROSARO
CELLO + FOLICUR	Imtrex + Kestrel	<i>(Protefin)</i>
COMET 200 + FANDANGO	Imtrex	SILTRA XPRO
FOLICUR	JAUNT	TALIUS
FOLICUR + PROSARO	Kestrel	<i>(Unix)</i>
FANDANGO	Kestrel + Mobius	VAREON
Fandango + Siltra Xpro	Kestrel + Swift	

Insecticides

HALLMARK WITH ZEON		
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Plant Growth Regulators - Do not apply in mix with Whorl if crop under stress. Only use chlormequat products approved for use on winter barley

CANOPY 1l/ha	CHLORMEQUAT	MEDAX MAX 0.75KG/HA
CANOPY + CHLORMEQUAT	CHLORMEQUAT + MODDUS 0.2L/HA	MODDUS 0.2L/HA
CERONE 0.5L/HA	MEDAX MAX 0.5KG/HA	TERPAL 1.0L/HA + ACTIVATOR 90

Trace Elements

Bittersaltz	Magflo 300	<i>(Nutriwise HiQ)</i>
<i>(Bortrac)</i>	<i>(Magphos K)</i>	<i>(Nutriwise Mag Nite)</i>
<i>(Brasitrel)</i>	<i>(Maize Boost)</i>	<i>(Nutriwise Maxstim)</i>
<i>(Cropplift)</i>	<i>(Mancozin)</i>	<i>(Nutriwise PK Plus)</i>
<i>(Cromptel)</i>	<i>(Mancoflo)</i>	<i>(Photrel Pro)</i>
<i>(Ferleaf)</i>	<i>(Mantrac DF)</i>	<i>(Safe N 300)</i>
FMC COPPER	<i>(Mantrac Pro)</i>	<i>(StopIt)</i>
FMC JETT	<i>(Multiple Pro)</i>	<i>(Zintrac 700)</i>
<i>(Foliar Potash)</i>	N-Lock	Universal Bio
<i>(Gramitrel)</i>	<i>(Nutriwise Copper)</i>	Verdicrop 4-Yield Extra
Human Z50	<i>(Nutriwise Fosfya)</i>	Vytel Liquid Copper

COMBINATION MIXES

HERBICIDES PLUS FUNGICIDES

ALLY MAX SX + BONTIMA	HURRICANE + PROSARO	Optica Trio + Vareon
ALLY MAX SX + BONTIMA + COMET	HYPRONE P + BONTIMA	PROMPT + BONTIMA
ALLY MAX SX + FANDANGO	HYPRONE P + IMTREX + PROSARO	PROMPT + IMTREX + PROSARO
ALLY MAX SX + IMTREX + PROSARO	Inka SX + Helix	<i>(Prompt + Manitoba)</i>
ALLY MAX SX + PROSARO	Inka SX + Kestrel	PROMPT + PROLINE
ALLY MAX SX + SILTRA XPRO	Inka SX + Manitoba	PROMPT + TALIUS

ALLY MAX SX + TALUIS		Inka SX + Vareon		Prompt + Vareon	
Axial Pro + Siltra Xpro		Isomec Ultra + Helix		RATIO SX + FANDANGO	
AXIAL PRO + HELIX		Isomec Ultra + Kestrel		RATIO SX + IMTREX + PROSARO	
AXIAL PRO + HURRICANE + COMET 200 + PROLINE		Isomec Ultra + Manitoba		RATIO SX + PROSARO	
AXIAL PRO + HURRICANE + COMET 200 + TRACKER		Isomec Ultra + Vareon		RATIO SX + SILTRA XPRO	
CHIMERA SX + FANDANGO		MIRCAM PLUS + BONTIMA		SAXON + BONTIMA	
CHIMERA SX + SILTRA XPRO		MIRCAM PLUS + IMTREX + PROSARO		SAXON + IMTREX + PROSARO	
DUPLOSAN KV + BONTIMA		MIRCAM PLUS + PROSARO		(Saxon + Manitoba)	
DUPLOSAN KV + IMTREX + PROSARO		MIRCAM PLUS + TALUIS		SAXON + PROLINE	
DUPLOSAN KV + PROSARO		Optica Trio + Helix		SAXON + TALUIS	
DUPLOSAN KV + TALUIS		OPTICA TRIO + IMTREX + PROSARO		Saxon + Vareon	
Gartrel + Jaunt		Optica Trio + Kestrel			
Gartrel + Librax		Optica Trio + Manitoba			
Gartrel + Variano Xpro		OPTICA TRIO + TALUIS			

HERBICIDES PLUS FUNGICIDES AND TRACE ELEMENTS					
ALLY MAX SX + BONTIMA + FMC COPPER		DUPLOSAN KV + PROSARO + FMC JETT		OPTICA TRIO + TALUIS + FMC JETT	
ALLY MAX SX + BONTIMA + FMC JETT		DUPLOSAN KV + TALUIS + FMC JETT		OPTICA TRIO + TALUIS + FMC MN 400	
ALLY MAX SX + PROLINE + FMC JETT		DUPLOSAN KV + TALUIS + FMC MN 400		PROMPT + BONTIMA + FMC COPPER	
ALLY MAX SX + PROLINE + FMC MANGANESE		HYPRONE P + BONTIMA + FMC COPPER		PROMPT + BONTIMA + FMC JETT	
ALLY MAX SX + SILTRA XPRO + FMC JETT		HYPRONE P + BONTIMA + FMC JETT		PROMPT + PROLINE + FMC JETT	
ALLY MAX SX + TALUIS + FMC JETT		MIRCAM PLUS + BONTIMA + FMC COPPER		PROMPT + PROLINE + FMC MN 400	
CYCLOPS + TALUIS + FMC JETT		MIRCAM PLUS + BONTIMA + FMC JETT		PROMPT + TALUIS + FMC JETT	
CYCLOPS + TALUIS + FMC MN 400		MIRCAM PLUS + TALUIS + FMC JETT		PROMPT + TALUIS + FMC MN 400	
DUPLOSAN KV + BONTIMA + FMC COPPER		MIRCAM PLUS + TALUIS + FMC MN 400		SAXON + PROLINE + FMC JETT	
DUPLOSAN KV + BONTIMA + FMC JETT		SAXON + BONTIMA + FMC COPPER		SAXON + PROLINE + FMC MN 400	
DUPLOSAN KV + PROLINE + FMC JETT		SAXON + BONTIMA + FMC JETT		SAXON + TALUIS + FMC JETT	
				SAXON + TALUIS + FMC MN 400	

HERBICIDES PLUS FUNGICIDES AND PLANT GROWTH REGULATORS					
ALLY MAX SX + BONTIMA + COMET + CHLORMEQUAT		CYCLOPS + BONTIMA + PROLINE + CHLORMEQUAT		HYPRONE P + BONTIMA + CHLORMEQUAT	
ALLY MAX SX + BONTIMA + CHLORMEQUAT		CYCLOPS + FANDANGO + CHLORMEQUAT		MIRCAM PLUS + BONTIMA + CHLORMEQUAT	
ALLY MAX SX + FANDANGO + CHLORMEQUAT		CYCLOPS + TALUIS + CHLORMEQUAT		MIRCAM PLUS + TALUIS + CHLORMEQUAT	
ALLY MAX SX + PROLINE + CHLORMEQUAT		DUPLOSAN KV + BONTIMA + CHLORMEQUAT		OPTICA TRIO + TALUIS + CHLORMEQUAT	
ALLY MAX SX + PROSARO + CHLORMEQUAT		DUPLOSAN KV + TALUIS + CHLORMEQUAT		PROMPT + BONTIMA + CHLORMEQUAT	
ALLY MAX SX + SILTRA XPRO + CHLORMEQUAT		Gartrel + Variano Xpro + Chlormequat + Moddus 0.2l/ha		PROMPT + TALUIS + CHLORMEQUAT	
Axial Pro + Imtrex + Medax Max		Gartrel + Jaunt + Chlormequat		SAXON + BONTIMA + CHLORMEQUAT	
CYCLOPS + BONTIMA + CHLORMEQUAT		Gartrel + Jaunt + Moddus		SAXON + TALUIS + CHLORMEQUAT	

HERBICIDES PLUS FUNGICIDES AND PLANT GROWTH REGULATORS AND TRACE ELEMENTS					
ALLY MAX SX + BONTIMA + CHLORMEQUAT + FMC JETT		CYCLOPS + BONTIMA + CHLORMEQUAT + FMC JETT		CYCLOPS + FANDANGO + CHLORMEQUAT + FMC JETT	
ALLY MAX SX + PROLINE + CHLORMEQUAT + FMC MANGANESE		CYCLOPS + BONTIMA + CHLORMEQUAT + FMC MN 400		CYCLOPS + FANDANGO + CHLORMEQUAT + FMC MN 400	
ALLY MAX SX + PROSARO + CHLORMEQUAT + FMC JETT		CYCLOPS + BONTIMA + PROLINE + CHLORMEQUAT + FMC JETT		SAXON + TALUIS + CHLORMEQUAT + FMC MN 400	
ALLY MAX SX + SILTRA XPRO + CHLORMEQUAT + FMC JETT		CYCLOPS + BONTIMA + PROLINE + CHLORMEQUAT + FMC MN 400			

HERBICIDES PLUS PLANT GROWTH REGULATORS					
ALLY MAX SX + CERONE		DUPLOSAN KV + CHLORMEQUAT		OPTICA TRIO + CHLORMEQUAT	
ALLY MAX SX + CHLORMEQUAT		Gartrel + Chlormequat		PROMPT + CHLORMEQUAT	
ALLY MAX SX + MEDAX MAX 0.5KG.HA		Gartrel + Moddus		RATIO SX + CERONE	
ALLY MAX SX + TERPAL + ACTIVATOR 90		HURRICANE + MODDUS		RATIO SX + CHLORMEQUAT	
Axial Pro + Medax Max		Inka SX + Chlormequat		RATIO SX + TERPAL	
CHIMERA SX + CERONE		ISOMEC ULTRA + CHLORMEQUAT		SAXON + CHLORMEQUAT	
CHIMERA SX + TERPAL + ACTIVATOR 90		MIRCAM PLUS + CHLORMEQUAT			

HERBICIDES PLUS PLANT GROWTH REGULATORS AND TRACE ELEMENTS					
ALLY MAX SX + CHLORMEQUAT + FMC COPPER		DUPLOSAN KV + CHLORMEQUAT + FMC JETT		PROMPT + CHLORMEQUAT + FMC JETT	
ALLY MAX SX + CHLORMEQUAT + FMC JETT		DUPLOSAN KV + CHLORMEQUAT + FMC MN 400		RATIO SX + CHLORMEQUAT + FMC COPPER	
ALLY MAX SX + CHLORMEQUAT + FMC MN 400		HURRICANE + CHLORMEQUAT + FMC JETT		RATIO SX + CHLORMEQUAT + FMC JETT	
CHIMERA SX + CHLORMEQUAT + FMC COPPER		HURRICANE + CHLORMEQUAT + FMC MN 400		RATIO SX + CHLORMEQUAT + FMC MN400	
CHIMERA SX + CHLORMEQUAT + FMC JETT		MIRCAM PLUS + CHLORMEQUAT + FMC JETT		REFINE MAX SX + CHLORMEQUAT + FMC JETT	
CHIMERA SX + CHLORMEQUAT + FMC MN 400		MIRCAM PLUS + CHLORMEQUAT + FMC MN 400		REFINE MAX SX + CHLORMEQUAT + FMC MN 400	
CYCLOPS + CHLORMEQUAT + FMC JETT		OPTICA TRIO + CHLORMEQUAT + FMC JETT		SAXON + CHLORMEQUAT + FMC JETT	
CYCLOPS + CHLORMEQUAT + FMC MN 400		OPTICA TRIO + CHLORMEQUAT + FMC MN 400		SAXON + CHLORMEQUAT + FMC MN 400	

HERBICIDES PLUS TRACE ELEMENTS					
ALLY MAX SX + FMC JETT		Inka SX + Verdicrop 4-Yield Extra		Optica Trio + Human Z50	
ALLY MAX SX + FMC MN 400		Inka SX + Vytel Liquid Copper		Optica Trio + Verdicrop 4-Yield Extra	
AXIAL PRO + FMC COPPER		Isomec Ultra + FMC Copper		Prompt + FMC Copper	
AXIAL PRO + HUMAN Z50		Isomec Ultra + Human Z50		Prompt + Human Z50	
Axial Pro + Verdicrop 4-Yield Extra		Isomec Ultra + Verdicrop 4-Yield Extra		Saxon + FMC Copper	
Axial Pro + Vytel Liquid Copper		Isomec Ultra + Vytel Liquid Copper		Saxon + Human Z50	
Inka SX + FMC Copper		Optica Trio + FMC Copper			
Inka SX + Human Z50		Optica Trio + Vytel Liquid Copper			

FUNGICIDES PLUS INSECTICIDES					
Ascra Xpro + Comet 200 + Hallmark with Zeon		IMTREX + PROLINE + SILTRA XPRO + HALLMARK WITH ZEON			
BONTIMA + HALLMARK WITH ZEON		PROSARO + HALLMARK WITH ZEON			
FANDANGO + HALLMARK WITH ZEON		SILTRA XPRO + HALLMARK WITH ZEON			

FUNGICIDES PLUS PLANT GROWTH REGULATORS					
Ascra Xpro + Comet + Terpal		COMET 200 + FANDANGO + CHLORMEQUAT		Helix + Chlormequat	
BONTIMA + COMET 200 + PROLINE + TERPAL		COMET 200 + FANDANGO + TERPAL		Kestrel + Chlormequat	
BONTIMA + TERPAL		FANDANGO + TERPAL		Manitoba + Chlormequat	
BONTIMA + CHLORMEQUAT		IMTREX + PROLINE + TERPAL + ACTIVATOR 90		MANITOBA + CHLORMEQUAT + MODDUS 0.2L/HA	
BONTIMA + PROLINE + CHLORMEQUAT		SILTRA XPRO + TERPAL		SILTRA XPRO + CHLORMEQUAT	
Bontima + Siltra Xpro + Terpal		SKYWAY XPRO + CHLORMEQUAT + MODDUS 0.2L/HA		Vareon + Chlormequat	
		Fandango + Siltra Xpro + Terpal			

FUNGICIDES PLUS PLANT GROWTH REGULATORS AND TRACE ELEMENTS					
BONTIMA + COMET 200 + CHLORMEQUAT + FMC MN 400		BONTIMA + CHLORMEQUAT + FMC MN 400		BONTIMA + PROLINE + CHLORMEQUAT + FMC MN 400	
BONTIMA + CHLORMEQUAT + FMC JETT		BONTIMA + PROLINE + CHLORMEQUAT + FMC JETT			

FUNGICIDES PLUS TRACE ELEMENTS					
BONTIMA + COMET 200 + FMC MN 400					

PLANT GROWTH REGULATORS PLUS TRACE ELEMENTS					
Chlormequat + FMC Copper		Chlormequat + Verdicrop 4-Yield Extra			
Chlormequat + Human Z50		Chlormequat + Vytel liquid Copper			

This summary sheet provides information on tank-mixes conducted with this product. Corteva Agriscience™ gives no warranty or accepts no liability in respect to compatibilities that are beyond the label. This additional information is for guidance purposes only and use is at grower’s risk.

Important Note: Do not use any tank-mix if the mixture cannot be applied within the recommendations for individual products or if specific tank-mix restrictions apply.

Larger, more complicated mixes; unlisted mixes or replacing alternative products to those listed in this table are not endorsed. However, for further information or to register a tank-mix request please contact your local Corteva representative or call the Technical Hotline on 0800 689 8899

Corteva Agriscience

Physical compatibility data is based on the results of an industry recognised standard test. Be aware that in the field, water hardness, PH, temperature etc. can vary. Biological compatibility data are based on a small number of field trials, Corteva Agriscience™ cannot warrant the efficacy of other tank-mix partners. Where only Physical Compatibility or Spray able with Continuous Agitation is shown, Corteva Agriscience™ has no biological data regarding efficacy or crop safety and only has data on physical compatibility, so growers use these mixes at their own risk.

Changes
14th May - updated PGR comments; 24th March 2021 - addition of Multiple Pro, Protefin and Unix; 27th April 2021 - removal of withdrawn products; 17th May 2021 - addition of Jaunt; 10th March 2022 - removal of withdrawn products. Addition of Spryte Aqua CF. Spraymate and Zarado based on information received from De Sangosse.

**USE PLANT PROTECTION PRODUCTS SAFELY. ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE.
FOR FURTHER INFORMATION INCLUDING WARNING PHRASES AND SYMBOLS PLEASE REFER TO THE PRODUCT LABEL**

Corteva Agriscience, CPC2 Capital Park, Fulbourn, Cambridge, Cambridgeshire, CB21 5XE.Tel: +44 (0) 1462 457272.

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Whorl contains fluroxypyr + halauxifen-methyl

Technical Hotline: 0800 689 8899 | ukhotline@corteva.com | corteva.co.uk

WHORL® TANK-MIX COMPATIBILITY IN SPRING WHEAT

PLEASE ENSURE YOU READ THE NOTES SECTION
This version supersedes all previous editions

FOR FINISH SX READ ACROSS TO ALLY MAX X, ALIAS SX, COUNTER SX AND JUBILEE SX.

Corteva Agriscience would support the replacement of fluroxypyr for Whorl in the following mixes in all spring wheat varieties

- Whorl + ALS herbicide (Finish SX or Lector) + Fungicide + PGR (see below for PGR rates)
- Whorl + ALS herbicide + 1 Fungicide + Trace element + adjuvant
- Whorl + ALS herbicide + 2 Fungicides + Trace element
- Whorl + 2 fungicides + 2 trace elements

Corteva Agriscience will provide the following support:

- The physical compatibility of the mix
- The crop selectivity of the mix
- The efficacy of the Whorl

PGR could be any of the following:

- 950g ai/ha CCC + Optimus 285ml/ha (Optimus read across from Moddus at 0.2 L/ha ie 50g ai/ha trinexapac)
- CCC alone – any rate
- Medax Max up to 0.5 kg/ha
- Optimus 285ml/ha (Optimus read across from Moddus at 0.2 L/ha ie 50g ai/ha trinexapac)

In addition Agrovista agree to provide feedback on the above mixes both during the season of use and at the end of the season to enhance guidance for the forthcoming season. Where a mix above is causing adverse effects there is an agreement by all parties to communicate this in a timely manner to minimise further use of that particular mix.

BOLD CAPITALS = Physically & Biologically Compatible	<i>(Italics in brackets) = Sprayable with Continuous Agitation</i>	Red on Blue = PHYSICALLY INCOMPATIBLE
Normal = Physically Compatible	(BOLD ITALICS IN BRACKETS) = Biologically compatible - maintain constant agitation	RED CAPITAL ON BLUE = CROP INJURY

Adjuvants

ADIGOR 0.5%	PHASE II	Spryte Aqua CF
BIOPOWER	SPO588	TOIL
BIO SYL	Spraymate	WET-CIT
KANTOR	SPRYTE AQUA	Zarado
MSOs		

Herbicides - FOR ALLY MAX SX READ ACROSS TO ALIAS SX, ANSWER SX, AVRO SX, BIPLAY SX, CHIMERA SX, CLEANCROP MONDIAL, FINISH SX, GROPPER SX, INKA SX, JUBILEE SX, LORATE, PRESITE SX, RATIO SX, REFINE MAX SX, SIMBA SX, TRATON SX. FOR HARMONY M SX READ ACROSS TO CONCERT SX, MOSAIC SX AND PENNANT

<i>(Axial Pro)</i>	EASEL	OPTICA TRIO
BROADWAY STAR + HURRICANE + BIOSYL	HARMONY M SX	Presite SX
BROADWAY STAR + LIBERATOR + BIOSYL	HURRICANE	PROMPT
DUPLOSAN KV	HURRICANE + TOPIK	RATIO SX
	Inka SX + Optica Trio	Saxon

Fungicides

Adexar + Comet 200	Helix	Kestrel + Mobius
Ascra Xpro	Helix + Imtrex	Librax
ASCRA XPRO + COMET 200	Helix + Mobius	MANITOBA + TALIS
Comet 200 + Elatus Era	Imtrex + Kestrel	Mobius
COMET 200 + SKYWAY 285 XPRO + AQUASCOPE	Imtrex	<i>(Protefin)</i>
CYFLAMID + MANITOBA	Jaunt	<i>(Unik)</i>
Elatus Era	Kestrel	

Insecticides

HALLMARK WITH ZEON	PERMASECT 500 EC	SUMI-ALPHA
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Plant Growth Regulators - Do not apply in mix with Whorl if crop under stress. Only use chlormequat products approved for use on spring wheat

CHLORMEQUAT	CHLORMEQUAT + MODDUS 0.4L/HA	MODDUS 0.2L/HA
CHLORMEQUAT + MODDUS 0.2L/HA	MEDAX MAX 0.5KG/HA	

Trace Elements

Bittersaltz	Magflo 300	<i>(Nutriwise HiQ)</i>
<i>(Bortrac)</i>	<i>(Magphos K)</i>	<i>(Nutriwise Mag Nite)</i>
<i>(Brassitrel)</i>	<i>(Maize Boost)</i>	<i>(Nutriwise Maxstim)</i>
<i>(Croplift)</i>	<i>(Mancozin)</i>	<i>(Nutriwise PK Plus)</i>
<i>(Coptrel)</i>	<i>(Mancoflo)</i>	<i>(Photrel Pro)</i>
<i>(Ferleaf)</i>	<i>(Mantrac DF)</i>	<i>(Safe N 300)</i>
FMC Copper	<i>(Mantrac Pro)</i>	<i>(Stopit)</i>
FMC Jett	<i>(Multiple Pro)</i>	<i>(Zintrac 700)</i>
<i>(Foliar Potash)</i>	N-Lock	Universal Bio
<i>(Gramitrel)</i>	<i>(Nutriwise Copper)</i>	Verdicrop 4-Yield Extra
Human Z50	<i>(Nutriwise Fosfyt)</i>	Vytel Liquid Copper

COMBINATION MIXES

HERBICIDES PLUS FUNGICIDES

ALLY MAX SX + IMITREX + PROSARO	HURRICANE + AVIATOR + COMET	Optica Trio + Helix
ALLY MAX SX + MOBIUS	HURRICANE + BOOGIE XPRO + COMET	OPTICA TRIO + IMITREX + PROSARO
DUPLOSAN KV + PROSARO	HURRICANE + COMET	Optica Trio + Kestrel
Gartrel + Jaunt	HURRICANE + COMET + HELIX	Optica Trio + Manitoba
Gartrel + Librax	HURRICANE + COMET + LIBRAX	Optica Trio + Vareon
Gartrel + Variatio Xpro	HURRICANE + COMET + PROLINE	<i>(Prompt + Manitoba)</i>
HARMONY M SX+ HELIX + IMITREX	HURRICANE + COMET + SKYWAY XPRO	Prompt + Vareon
HARMONY M SX+ HELIX	HURRICANE + COMET + VARIANO XPRO	RATIO SX + IMITREX + PROSARO
HARMONY M SX + HELIX + MOBIUS	HURRICANE + PROSARO	Saxon + Manitoba
HARMONY M SX + IMITREX + PROSARO	Inka SX + Helix	Saxon + Vareon
HARMONY M SX + MOBIUS + PROSARO	Inka SX + Kestrel	
HARMONY M SX + PROSARO	Inka SX + Manitoba	

HERBICIDES PLUS FUNGICIDES AND TRACE ELEMENTS

HARMONY M SX + HELIX + IMITREX + HUMAN Z50	HARMONY M SX + PROSARO + HUMAN Z50	PROMPT + PROLINE + FMC MN 400
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HARMONY M SX + HELIX + MOBIUS + HUMAN Z50		HARMONY M SX + MOBIUS + PROSARO + HUMAN Z50		SAXON + PROLINE + FMC MN 400	
HARMONY M SX + IMITREX + PROSARO + HUMAN Z50					

HERBICIDES PLUS FUNGICIDES AND PLANT GROWTH REGULATORS					
Gartrel + Variano Xpro + 3C 750 Chlormequat + Moddus		Gartrel + Jaunt + Moddus			
Gartrel + Jaunt + 3C 750 chlormequat		HARMONY M SX + MOBIUS + CHLORMEQUAT			

HERBICIDES PLUS FUNGICIDES AND PLANT GROWTH REGULATORS AND TRACE ELEMENTS					
SAXON + TALIIUS + CHLORMEQUAT + FMC MN 400					

HERBICIDES PLUS PLANT GROWTH REGULATORS					
ALLY MAX SX + CHLORMEQUAT		Gartrel + Moddus		Inka SX + Chlormequat	
ALLY MAX SX + CHLORMEQUAT + MODDUS 0.2L/HA		HARMONY M SX + CHLORMEQUAT + MODDUS 0.2L/HA		OPTICA TRIO + CHLORMEQUAT	
Gartrel + chlormequat		HURRICANE + MODDUS 0.2L/HA		PROMPT + CHLORMEQUAT	
		HURRICANE + CHLORMEQUAT + MODDUS 0.2L/HA		RATIO SX + CHLORMEQUAT	

HERBICIDES PLUS PLANT GROWTH REGULATORS AND TRACE ELEMENTS					
ALLY MAX SX + CHLORMEQUAT + FMC COPPER		HARMONY M SX + CHLORMEQUAT + FMC COPPER		PROMPT + CHLORMEQUAT + FMC JETT	
ALLY MAX SX + CHLORMEQUAT + FMC JETT		HARMONY M SX + CHLORMEQUAT + FMC JETT		RATIO SX + CHLORMEQUAT + FMC COPPER	
ALLY MAX SX + CHLORMEQUAT + FMC MN 400		HARMONY M SX + CHLORMEQUAT + FMC MN 400		RATIO SX + CHLORMEQUAT + FMC JETT	
DUPLOSAN KV + CHLORMEQUAT + FMC JETT		HURRICANE + CHLORMEQUAT + FMC COPPER		RATIO SX + CHLORMEQUAT + FMC MN400	
		HURRICANE + CHLORMEQUAT + FMC JETT		SAXON + CHLORMEQUAT + FMC JETT	

HERBICIDES PLUS TRACE ELEMENTS					
HARMONY M SX + FMC JETT		Inka SX + Vytel Liquid Copper		Prompt + FMC Copper	
HARMONY M SX + FMC MN 400		Optica Trio + FMC Copper		Prompt + Human Z50	
Inka SX + FMC Copper		Optica Trio + Human Z50		Saxon + FMC Copper	
Inka SX + Human Z50		Optica Trio + Verdicrop 4-Yield Extra		Saxon + Human Z50	
Inka SX + Verdicrop 4-Yield Extra		Optica Trio + Vytel Liquid Copper			

FUNGICIDES PLUS INSECTICIDES					
Ascra Xpro + Comet 200 + Hallmark Zeon CS*		Comet 200 + Elatus Era + Hallmark with Zeon			

FUNGICIDES PLUS PLANT GROWTH REGULATORS					
Helix + Chlormequat		MANITOBA + AQUASCOPE + CHLORMEQUAT		SKYWAY 285 XPRO + AQUASCOPE + CHLORMEQUAT	
Kestrel + Chlormequat		MANITOBA + CHLORMEQUAT + MODDUS 0.2L/HA		SKYWAY 285 XPRO + CHLORMEQUAT + MODDUS 0.2L/HA	
				Vareon + Chlormequat	

FUNGICIDES PLUS TRACE ELEMENTS					
MOBIUS + HUMAN Z50					

PLANT GROWTH REGULATORS PLUS TRACE ELEMENTS					
Chlormequat + FMC Copper		Chlormequat + Vytel liquid Copper			
Chlormequat + Verdicrop 4-Yield Extra		Chlormequat + Human Z50			

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 All other brand names are trademarks of other manufacturers for which proprietary rights may exist.
 * Registered trademark of Corteva Agriscience and its affiliated companies
 Whori contains fluroxypyr + halauxifen-methyl
 Technical Hotline: 0800 689 8899 | ukhotline@corteva.com | corteva.co.uk

WHORL® TANK-MIX COMPATIBILITY IN SPRING BARLEY

PLEASE ENSURE YOU READ THE NOTES SECTION
This version supersedes all previous editions

FOR FINISH SX READ ACROSS TO ALLY MAX X, ALIAS SX, COUNTER SX AND JUBILEE SX.

Corteva Agriscience would support the replacement of fluroxypyr for Whorl in the following mixes in all spring barley varieties

- Whorl + ALS herbicide (Finish SX or Lector) + Fungicide + PGR (see below for PGR rates)
- Whorl + ALS herbicide + 1 Fungicide + Trace element + adjuvant
- Whorl + ALS herbicide + 2 Fungicides + Trace element
- Whorl + 2 fungicides + 2 trace elements

Corteva Agriscience will provide the following support:

- The physical compatibility of the mix
- The crop selectivity of the mix
- The efficacy of the Whorl

PGR could be any of the following:

- 950g ai/ha CCC + Optimus 285ml/ha (Optimus read across from Moddus at 0.2 L/ha ie 50g ai/ha trinexapac)
- CCC alone – any rate
- Medax Max up to 0.5 kg/ha
- Canopy up to 0.8 L/ha
- Optimus 285ml/ha (Optimus read across from Moddus at 0.2 L/ha ie 50g ai/ha trinexapac)
- Terpal up to 1.0 L/ha + adjuvant

In addition Agrovista agree to provide feedback on the above mixes both during the season of use and at the end of the season to enhance guidance for the forthcoming season. Where a mix above is causing adverse effects there is an agreement by all parties to communicate this in a timely manner to minimise further use of that particular mix.

BOLD CAPITALS = Physically & Biologically Compatible	<i>(Italics in brackets) = Sprayable with Continuous Agitation</i>	Red on Blue = PHYSICALLY INCOMPATIBLE
Normal = Physically Compatible	(BOLD ITALICS IN BRACKETS) = Biologically compatible - maintain constant agitation	RED CAPITAL ON BLUE = CROP INJURY

Adjuvants

ADIGOR 0.5%		PHASE II		Spryte Aqua CF	
BIOPOWER		SPOS88		TOIL	
BIO SYL		Spraymate		WET-CIT	
KANTOR		SPRYTE AQUA		Zarado	
MSOs					

Herbicides - FOR ALLY MAX SX READ ACROSS TO ALIAS SX, ANSWER SX, AVRO SX, BIPLAY SX, CHIMERA SX, CLEAN CROP MONDIAL, FINISH SX, GROPPER SX, INKA SX, JUBILEE SX, LORATE, PRESITE SX, RATIO SX, REFINE MAX SX, SIMBA SX, TRATON SX. FOR HARMONY M SX READ ACROSS TO CONCERT SX, MOSAIC SX AND PENNANT.

ALLY MAX SX		HURRICANE		OPTICA TRIO	
<i>(Axial Pro)</i>		HYPRONE P		PICONA	
DUPLOSAN KV		Inka SX + Optica Trio		PRESITE SX	
EASEL		ISOMEC ULTRA		PROMPT	
HARMONY M SX		MIRCAM PLUS		RATIO SX	
				SAXON	

Fungicides

BONTIMA		Helix + Zulu		Librax	
Bontima + Siltra Xpro		Imtrex + Kestrel		MANITOBA	
FANDANGO		Imtrex		PROLINE	
Fandango + Siltra Xpro		Jaunt		<i>(Protefin)</i>	
HELIX		Kestrel		PROSARO	
Helix + Imtrex		Kestrel + Mobius		SILTRA XPRO	
Helix + Mobius		Kestrel + Swift		TALIUS	
Helix + Swift		Kestrel + Zulu		<i>(Unix)</i>	
				VAREON	

Insecticides

HALLMARK WITH ZEON					
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Plant Growth Regulators - Do not apply in mix with Whorl if crop under stress. Only use chlormequat products approved for use on spring barley

CANOPY 1l/ha		CHLORMEQUAT		MEDAX MAX 0.75KG/HA	
CANOPY + CHLORMEQUAT		CHLORMEQUAT + MODDUS 0.2L/HA		MODDUS 0.2L/HA	
CERONE 0.5L/HA		MEDAX MAX 0.5KG/HA		TERPAL 1.0L/HA + ACTIVATOR 90	

Trace Elements

Bittersaltz		Magflo 300		<i>(Nutriwise HiQ)</i>	
<i>(Bortrac)</i>		<i>(Magphos K)</i>		<i>(Nutriwise Mag Nite)</i>	
<i>(Brassitrel)</i>		<i>(Maize Boost)</i>		<i>(Nutriwise Maxstim)</i>	
<i>(Croplift)</i>		<i>(Mancozin)</i>		<i>(Nutriwise PK Plus)</i>	
<i>(Croptriel)</i>		<i>(Mancuflo)</i>		<i>(Photrel Pro)</i>	
<i>(Ferleaf)</i>		<i>(Mantrac DF)</i>		<i>(Safe N 300)</i>	
FMC COPPER		<i>(Mantrac Pro)</i>		<i>(StopIt)</i>	
FMC JETT		<i>(Multiple Pro)</i>		<i>(Zintrac 700)</i>	
<i>(Foliar Potash)</i>		N-Lock		Universal Bio	
<i>(Gramitrel)</i>		<i>(Nutriwise Copper)</i>		Verdicrop 4-Yield Extra	
Human Z50		<i>(Nutriwise Fosfyt)</i>		Vytel Liquid Copper	

COMBINATION MIXES

HERBICIDES PLUS FUNGICIDES

ALLY MAX SX + FANDANGO		Inka SX + Kestrel		Optica Trio + Vareon	
ALLY MAX SX + IMITREX + PROSARO		Inka SX + Helix		PROMPT + BONTIMA	
ALLY MAX SX + PROSARO		Inka SX + Manitoba		PROMPT + IMITREX + PROSARO	
ALLY MAX SX + SILTRA XPRO		Inka SX + Vareon		<i>(Prompt + Manitoba)</i>	
DUPLOSAN KV + BONTIMA		Isomec Ultra + Helix		PROMPT + PROLINE	
DUPLOSAN KV + IMITREX + PROSARO		Isomec Ultra + Kestrel		PROMPT + TALIUS	
DUPLOSAN KV + PROSARO		Isomec Ultra + Manitoba		Prompt + Vareon	
DUPLOSAN KV + TALIUS		Isomec Ultra + Vareon		RATIO SX + FANDANGO	
Gartrel + Jaunt		MIRCAM PLUS + BONTIMA		RATIO SX + IMITREX + PROSARO	

Gartrel + Librax		MIRCAM PLUS + INTREX + PROSARO		RATIO SX + PROSARO	
Gartrel + Variano Xpro		MIRCAM PLUS + PROSARO		RATIO SX + SILTRA XPRO	
HARMONY M SX + BONTIMA		MIRCAM PLUS + TALIUUS		SAXON + BONTIMA	
HARMONY M SX + FANDANGO		Optica Trio + Helix		SAXON + INTREX + PROSARO	
HARMONY M SX + INTREX + PROSARO		OPTICA TRIO + INTREX + PROSARO		Saxon + Manitoba	
HARMONY M SX + PROSARO		Optica Trio + Kestrel		SAXON + PROLINE	
HARMONY M SX + SILTRA XPRO		Optica Trio + Manitoba		SAXON + TALIUUS	
HYPRONE P + BONTIMA		OPTICA TRIO + TALIUUS		Saxon + Vareon	
HYPRONE P + INTREX + PROSARO					

HERBICIDES PLUS FUNGICIDES AND TRACE ELEMENTS

ALLY MAX SX + BONTIMA + FMC COPPER		HYPRONE P + BONTIMA + FMC COPPER		PROMPT + BONTIMA + FMC JETT	
ALLY MAX SX + BONTIMA + FMC JETT		HYPRONE P + BONTIMA + FMC JETT		PROMPT + PROLINE + FMC JETT	
DUPLOSAN KV + BONTIMA + FMC COPPER		MIRCAM PLUS + BONTIMA + FMC COPPER		PROMPT + PROLINE + FMC MN 400	
DUPLOSAN KV + BONTIMA + FMC JETT		MIRCAM PLUS + BONTIMA + FMC JETT		PROMPT + TALIUUS + FMC JETT	
DUPLOSAN KV + PROSARO + FMC JETT		MIRCAM PLUS + TALIUUS + FMC MN 400		PROMPT + TALIUUS + FMC MN 400	
DUPLOSAN KV + TALIUUS + FMC JETT		OPTICA TRIO + TALIUUS + FMC JETT		SAXON + BONTIMA + FMC COPPER	
DUPLOSAN KV + TALIUUS + FMC MN 400		OPTICA TRIO + TALIUUS + FMC JETT		SAXON + BONTIMA + FMC JETT	
HARMONY M SX + BONTIMA + FMC JETT		OPTICA TRIO + TALIUUS + FMC MN 400		SAXON + PROLINE 275+ FMC JETT	
HARMONY M SX + BONTIMA + FMC COPPER		PROMPT + BONTIMA + FMC COPPER		SAXON + TALIUUS + FMC JETT	
				SAXON + TALIUUS + FMC MN 400	

HERBICIDES PLUS FUNGICIDES AND PLANT GROWTH REGULATORS

ALLY MAX SX + BONTIMA + CHLORMEQUAT		HYPRONE P + BONTIMA + CHLORMEQUAT		PROMPT + BONTIMA + CHLORMEQUAT	
DUPLOSAN KV + BONTIMA + CHLORMEQUAT		MIRCAM PLUS + BONTIMA + CHLORMEQUAT		PROMPT + TALIUUS + CHLORMEQUAT	
DUPLOSAN KV + TALIUUS + CHLORMEQUAT		MIRCAM PLUS + TALIUUS + CHLORMEQUAT		SAXON + BONTIMA + CHLORMEQUAT	
HARMONY M SX + BONTIMA + CHLORMEQUAT		OPTICA TRIO + TALIUUS + CHLORMEQUAT		SAXON + TALIUUS + CHLORMEQUAT	

HERBICIDES PLUS PLANT GROWTH REGULATORS

ALLY MAX SX + CERONE		HARMONY M SX + CHLORMEQUAT		PROMPT + CHLORMEQUAT	
ALLY MAX SX + CHLORMEQUAT		HARMONY M SX + TERPAL		RATIO SX + CERONE	
ALLY MAX SX + MEDAX MAX 0.5KG.HA		Inka SX + Chlormequat		RATIO SX + CHLORMEQUAT	
ALLY MAX SX + TERPAL		ISOMEC ULTRA + CHLORMEQUAT		RATIO SX + TERPAL	
DUPLOSAN KV + CHLORMEQUAT		MIRCAM PLUS + CHLORMEQUAT		SAXON + CHLORMEQUAT	
HARMONY M SX + CERONE		OPTICA TRIO + CHLORMEQUAT			

HERBICIDES PLUS PLANT GROWTH REGULATORS AND TRACE ELEMENTS

ALLY MAX SX + CHLORMEQUAT + FMC COPPER		HARMONY M SX + CHLORMEQUAT + FMC MN 400		RATIO SX + CHLORMEQUAT + FMC COPPER	
ALLY MAX SX + CHLORMEQUAT + FMC JETT		MIRCAM PLUS + CHLORMEQUAT + FMC JETT		RATIO SX + CHLORMEQUAT + FMC JETT	
ALLY MAX SX + CHLORMEQUAT + FMC MN 400		OPTICA TRIO + CHLORMEQUAT + FMC JETT		RATIO SX + CHLORMEQUAT + FMC MN400	
HARMONY M SX + CHLORMEQUAT + FMC COPPER		PROMPT + CHLORMEQUAT + FMC JETT		SAXON + CHLORMEQUAT + FMC JETT	
HARMONY M SX + CHLORMEQUAT + FMC JETT					

HERBICIDES PLUS TRACE ELEMENTS

ALLY MAX SX + FMC JETT		Inka SX + Vytel Liquid Copper		Optica Trio + Human Z50	
ALLY MAX SX + FMC MN 400		Isomec Ultra + FMC Copper		Optica Trio + Verdicrop 4-Yield Extra	
HARMONY M SX + FMC JETT		Isomec Ultra + Human Z50		Prompt + FMC Copper	
HARMONY M SX + FMC MN 400		Isomec Ultra + Verdicrop 4-Yield Extra		Prompt + Human Z50	
Inka SX + FMC Copper		Isomec Ultra + Vytel Liquid Copper		Saxon + FMC Copper	
Inka SX + Human Z50		Optica Trio + FMC Copper		Saxon + Human Z50	
Inka SX + Verdicrop 4-Yield Extra		Optica Trio + Vytel Liquid Copper			

FUNGICIDES PLUS INSECTICIDES

SILTRA XPRO + HALLMARK WITH ZEON					
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FUNGICIDES PLUS PLANT GROWTH REGULATORS

Helix + Chlormequat		Manitoba + Chlormequat		Vareon + Chlormequat	
Kestrel + Chlormequat		MANITOBA + CHLORMEQUAT + MODDUS 0.2L/HA			

PLANT GROWTH REGULATORS PLUS TRACE ELEMENTS

Chlormequat + FMC Copper		Chlormequat + Verdicrop 4-Yield Extra			
Chlormequat + Human Z50		Chlormequat + Vytel liquid Copper			

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Changes
14th May - updated PGR comments; 24th March 2021 - addition of Multiple Pro, Protefin and Unix; 22nd April 2021 - removal of withdrawn products; 17th May 2021 - addition of Jaunt; 10th March 2022 - removal of withdrawn products. Addition of Spryte Aqua CF. Spraymate and Zarado based on information received from De Sangosse.

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Whorl contains fluroxypyr + halauxifen-methyl

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