

WHORL® TANK-MIX COMPATIBILITY IN WINTER WHEAT

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

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

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 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 off 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 0.2 L/ha ie 50g ai/ha trinexapac)
- 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
- Medax Max + CCC up to 0.3kg+1.0 L/ha
- Canopy up to 0.8 L/ha
- Canopy + CCC up to 0.8 + 1.2 L/ha
- 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	<i>(BOLD ITALICS IN BRACKETS) = Biologically compatible - maintain constant agitation</i>	RED CAPITAL ON BLUE = CROP INJURY

Adjuvants

ADIGOR 0.5%	MSOs	TOIL
BIOPOWER	PHASE II	WET-CIT
BIOSYL	SPO588	
KANTOR	SPRYTE AQUA	

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, MOSAIX 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

ADEXAR + COMET 200	COMET 200 + PROLINE	Imtrex + Osiris P
Ascra Xpro	COMET 200 + PROSARO	IMTREX + PROLINE
ASCRA XPRO + COMET 200	COMET 200 + SEGURIS	JAUNT
AVIATOR 235 XPRO + COMET	COMET 200 + SKYWAY 235 XPRO + AQUASCOPE	Kestrel
BOOGIE XPRO + COMET 200	COMET 200 + SKYWAY XPRO + AQUASCOPE + ACTIVATOR 90	Kestrel + Mobius
CEANDO	COMET 200 + TRACKER	Kestrel + Swift SC
CELLO	COMET 200 + VARIANO XPRO	MANITOBA + TALUIS
CELLO + FOLICUR	CYFLAMID + MANITOBA	Mobius
CERIX EC	<i>Eclipse + Priaxor EC</i>	PROLINE
Cerix EC + Ignite	<i>Elatius Era</i>	PROSARO
Cloister + Librax	FOLICUR	<i>(Protefin)</i>
CHORD + COMET 200	FOLICUR + PROLINE	SEGURIS
COMET 200	FOLICUR + PROSARO	SKYWAY XPRO + AQUASCOPE + ACTIVATOR 90
<i>COMET 200 + Elatus Era</i>	HELIX	TALUIS
COMET 200 + HELIX	Helix + Imtrex	<i>(Unix)</i>
COMET 200 + IGNITE	Helix + Mobius	VAREON
COMET 200 + LIBRAX	Helix + Swift SC	
COMET 200 + OPERA	IGNITE + JAUNT	
COMET 200 + OPUS	Imtrex + Kestrel	

Insecticides

HALLMARK WITH ZEON	PERMASect 500 EC	Corteva Agriscience	SUMI-ALPHA
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Plant Growth Regulators - Do not apply in mix with Pixxaro EC 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			
Bittersaltz		(Magflo 300)	(Nutriwise HIQ)
(Bortrac)		(Maagphas K)	(Nutriwise Mag Nite)
(Brassitrel)		(Maize Boost)	(Nutriwise Maxstim)
(Craplift)		(Mancozin)	(Nutriwise PK Plus)
(Craptre)		(Mancufla)	(Phatrel Pro)
(Ferleaf)		(Mantrac DF)	(Safe N 300)
FMC COPPER		(Mantrac Pro)	(Stopit)
FMC JETT		(Multiple Pro)	(Zintrac 700)
(Foliar Potash)		N-Lock	Universal Bio
(Gramitre)		(Nutriwise Copper)	Verdicrop 4-Yield Extra
Human Z50		(Nutriwise Fosfitya)	Vytel Liquid Copper

COMBINATION MIXES

HERBICIDES PLUS FUNGICIDES			
ALLY MAX SX + FANDANGO		HURRICANE + COMET 200 + HELIX	OPTICA TRIO + IMITREX + PROSARO
ALLY MAX SX + IMITREX + PROSARO		HURRICANE + COMET 200 + IGINITE	Optica Trio + Kestrel
ALLY MAX SX + MOBIUS		HURRICANE + COMET 200 + LIBRAX	Optica Trio + Manitoba
ALLY MAX SX + PROSARO		HURRICANE + COMET 200 + OPERA	OPTICA TRIO + SEGURIS
ALLY MAX SX + TALIUUS		HURRICANE + COMET 200 + OPUS	OPTICA TRIO + TALIUUS
CHIMERA SX + FANDANGO		HURRICANE + COMET 200 + PROLINE	Optica Trio + Vareon
CYCLOPS + BRAVO + CEANDO		HURRICANE + COMET 200 + SEGURIS	PICONA + CEANDO
DUPLOSAN KV + PROSARO		HURRICANE + COMET 200 + SKYWAY 285 XPRO	PROMPT + IMITREX + PROSARO
DUPLOSAN KV + SEGURIS		HURRICANE + COMET 200 + TRACKER	(Prompt + Manitoba)
DUPLOSAN KV + TALIUUS		HURRICANE + COMET 200 + VARIANO XPRO	PROMPT + PROLINE
Gartrel + Jaunt		HURRICANE + IGINITE	PROMPT + SEGURIS
Gartrel + Librax		HURRICANE + PROSARO	PROMPT + TALIUUS
Gartrel + Variano Xpro		HURRICANE + TRACKER	Prompt + Vareon
HARMONY M SX+ HELIX + IMITREX		HYPRONE P + SEGURIS	RATIO SX + FANDANGO
HARMONY M SX+ HELIX		Inka SX + Helix	RATIO SX + IMITREX + PROSARO
HARMONY M SX + HELIX + MOBIUS		Inka SX + Kestrel	RATIO SX + PROSARO
HARMONY M SX + IMITREX + PROSARO		Inka SX + Manitoba	SAXON + IMITREX + PROSARO
HARMONY M SX + MOBIUS + PROSARO		Inka SX + Vareon	(Saxon + Manitoba)
HARMONY M SX + PROSARO		Isomec Ultra + Helix	SAXON + PROLINE
HURRICANE + ADEXAR + COMET 200		Isomec Ultra + Kestrel	SAXON + SEGURIS
HURRICANE + AVIATOR 235 XPRO + COMET 200		Isomec Ultra + Manitoba	SAXON + TALIUUS
HURRICANE + BOOGIE XPRO + COMET 200 200		Isomec Ultra + Vareon	Saxon + Vareon
HURRICANE + CAPALO + COMET 200		MIRCAM PLUS + PROSARO	
HURRICANE + CEANDO		MIRCAM PLUS + SEGURIS	
HURRICANE + CHORD + COMET 200		MIRCAM PLUS + TALIUUS	
HURRICANE + COMET 200		Optica Trio + Helix	

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 + Gandalf		PROSARO + HALLMARK WITH ZEON			
COMET 200 + Elatus Era + Hallmark with Zeon					

FUNGICIDES PLUS PLANT GROWTH REGULATORS

ARIZONA + CHLORMEQUAT		CERIAX EC + CHLORMEQUAT + MODDUS 0.2L/HA		MANITOBA + CHLORMEQUAT + MODDUS 0.2L/HA	
ARIZONA + IGNITE + CHLORMEQUAT		COMET 200 + Elatus Era + Terpal		SKYWAY XPRO + AQUASCOPE + CERONE	
Ascra Xpro + COMET 200 + Terpal		COMET 200 + FANDANGO + TERPAL 1L/HA		SKYWAY 285 XPRO + AQUASCOPE + CHLORMEQUAT	
CEANDO + CHLORMEQUAT		Helix + Chlormequat		SKYWAY XPRO + AQUASCOPE + TERPAL + ACTIVATOR 90	
CERIAX EC + AQUASCOPE + CHLORMEQUAT		IMTREX + PROLINE + TERPAL + ACTIVATOR 90		SKYWAY XPRO + CANOPY 0.5L/HA + CHLORMEQUAT	
CERIAX EC + AQUASCOPE + CANOPY 0.5L/HA + CHLORMEQUAT		Kestrel + Chlormequat		SKYWAY XPRO + CHLORMEQUAT + MODDUS 0.2L/HA	
CERIAX EC + AQUASCOPE + CERONE		MANITOBA + AQUASCOPE + CHLORMEQUAT		Vareon + Chlormequat	
CERIAX EC + AQUASCOPE + TERPAL + ACTIVATOR 90		MANITOBA + AQUASCOPE + CANOPY 0.5L/HA + CHLORMEQUAT			

FUNGICIDES PLUS TRACE ELEMENTS

ARIZONA + FOLICUR + FMC JETT		ARIZONA + FMC MN 400		CEANDO + FMC MN 400	
ARIZONA + FMC COPPER		CEANDO + FMC COPPER		MOBIUS + HUMAN Z50	
ARIZONA + FMC JETT		CEANDO + 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

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, Proverb and Unix; 22nd April 2021 - removal of withdrawn products; 17th May 2021 - addition of Jaunt

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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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:

1. The physical compatibility of the mix
2. The crop selectivity of the mix
3. 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.

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Normal = Physically Compatible	<i>(BOLD ITALICS IN BRACKETS) = Biologically compatible - maintain constant agitation</i>	RED CAPITAL ON BLUE = CROP INJURY

Adjuvants

ADIGOR 0.5%	MSOs	TOIL
BIOPOWER	PHASE II	WET-CIT
BIOSYL	SPO588	
KANTOR	SPRYTE AQUA	

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
DUPLOSAN KV	ISOMEC ULTRA	PROMPT
EASEL	MIRCAM PLUS	RATIO SX
HURRICANE	OPTICA TRIO	REFINE MAX SX
		SAXON

Fungicides

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

Insecticides

HALLMARK WITH ZEON		
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Plant Growth Regulators - Do not apply in mix with Pixaro EC 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

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>(Craplift)</i>	<i>(Mancozin)</i>	<i>(Nutriwise PK Plus)</i>
<i>(Cromptrel)</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 + BONTIMA		HURRICANE + PROSARO	OPTICA TRIO + SEGURIS
ALLY MAX SX + BONTIMA + COMET		HURRICANE + TRACKER	OPTICA TRIO + TALIUUS
ALLY MAX SX + FANDANGO		HYPRONE P + BONTIMA	Optica Trio + Vareon
ALLY MAX SX + IMTRET + PROSARO		HYPRONE P + IMTRET + PROSARO	PROMPT + BONTIMA
ALLY MAX SX + PROSARO		HYPRONE P + SEGURIS	PROMPT + IMTRET + PROSARO
ALLY MAX SX + SILTRA XPRO		Inka SX + Helix	(Prompt + Manitoba)
ALLY MAX SX + TALIUUS		Inka SX + Kestrel	PROMPT + PROLINE
Axial Pro + Siltra Xpro		Inka SX + Manitoba	PROMPT + SEGURIS
AXIAL PRO + HELIX		Inka SX + Vareon	PROMPT + TALIUUS
AXIAL PRO + HURRICANE + COMET + PROLINE		Isomec Ultra + Helix	Prompt + Vareon
AXIAL PRO + HURRICANE + COMET + TRACKER		Isomec Ultra + Kestrel	RATIO SX + FANDANGO
CHIMERA SX + FANDANGO		Isomec Ultra + Manitoba	RATIO SX + IMTRET + PROSARO
CHIMERA SX + SILTRA XPRO		Isomec Ultra + Vareon	RATIO SX + PROSARO
CYCLOPS + CEANDO		MIRCAM PLUS + BONTIMA	RATIO SX + SILTRA XPRO
DUPLOSAN KV + BONTIMA		MIRCAM PLUS + IMTRET + PROSARO	SAXON + BONTIMA
DUPLOSAN KV + IMTRET + PROSARO		MIRCAM PLUS + PROSARO	SAXON + IMTRET + PROSARO
DUPLOSAN KV + PROSARO		MIRCAM PLUS + SEGURIS	(Saxon + Manitoba)
DUPLOSAN KV + SEGURIS		MIRCAM PLUS + TALIUUS	SAXON + PROLINE
DUPLOSAN KV + TALIUUS		Optica Trio + Helix	SAXON + SEGURIS
Gartrel + Jaunt		OPTICA TRIO + IMTRET + PROSARO	SAXON + TALIUUS
Gartrel + Librax		Optica Trio + Kestrel	Saxon + Vareon
Gartrel + Variano Xpro		Optica Trio + Manitoba	

HERBICIDES PLUS FUNGICIDES AND TRACE ELEMENTS			
ALLY MAX SX + BONTIMA + FMC COPPER		DUPLOSAN KV + PROSARO + FMC JETT	OPTICA TRIO + TALIUUS + FMC JETT
ALLY MAX SX + BONTIMA + FMC JETT		DUPLOSAN KV + TALIUUS + FMC JETT	OPTICA TRIO + TALIUUS + FMC MN 400
ALLY MAX SX + PROLINE + FMC JETT		DUPLOSAN KV + TALIUUS + 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 + TALIUUS + FMC JETT		MIRCAM PLUS + BONTIMA + FMC COPPER	PROMPT + PROLINE + FMC MN 400
CYCLOPS + TALIUUS + FMC JETT		MIRCAM PLUS + BONTIMA + FMC JETT	PROMPT + TALIUUS + FMC JETT
CYCLOPS + TALIUUS + FMC MN 400		MIRCAM PLUS + TALIUUS + FMC JETT	PROMPT + TALIUUS + FMC MN 400
DUPLOSAN KV + BONTIMA + FMC COPPER		MIRCAM PLUS + TALIUUS + 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 + TALIUUS + FMC JETT
			SAXON + TALIUUS + 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 + TALIUUS + CHLORMEQUAT	MIRCAM PLUS + TALIUUS + CHLORMEQUAT
ALLY MAX SX + PROLINE + CHLORMEQUAT		DUPLOSAN KV + BONTIMA + CHLORMEQUAT	OPTICA TRIO + TALIUUS + CHLORMEQUAT
ALLY MAX SX + PROSARO + CHLORMEQUAT		DUPLOSAN KV + TALIUUS + CHLORMEQUAT	PROMPT + BONTIMA + CHLORMEQUAT
ALLY MAX SX + SILTRA XPRO + CHLORMEQUAT		Gartrel + Variano Xpro + Chlormequat + Moddus 0.2L/ha	PROMPT + TALIUUS + CHLORMEQUAT
Axial Pro + Imtret + Medax Max		Gartrel + Jaunt + Chlormequat	SAXON + BONTIMA + CHLORMEQUAT
CYCLOPS + BONTIMA + CHLORMEQUAT		Gartrel + Jaunt + Moddus	SAXON + TALIUUS + 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 + TALIUUS + 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 + Hallmark with Zeon		IMTRET + 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 + BRAVO + COMET + PROLINE + TERPAL		COMET 200 + FANDANGO + TERPAL	Kestrel + Chlormequat
BONTIMA + BRAVO + TERPAL		FANDANGO + TERPAL	Manitoba + Chlormequat
BONTIMA + CHLORMEQUAT		IMTRET + 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
CEANDO + 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

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

**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.

All other brand names are trademarks of other manufacturers for which proprietary rights may exist.

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:

1. The physical compatibility of the mix
2. The crop selectivity of the mix
3. 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	(Italics in brackets) = 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%	MSOs	TOIL
BIOPOWER	PHASE II	WET-CIT
BIOSYL	SPOS8	
KANTOR	SPRYTE AQUA	

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

(Axial Pro)	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	COMET 200 + SKYWAY 285 XPRO + AQUASCOPE	Imtrex + Osiris P
Ascra Xpro	CYFLAMID + MANITOBA	Jaunt
ASCRA XPRO + COMET 200	Eclipse + Priaxor EC	Kestrel
CEANDO	Elatus Era	Kestrel + Mobius
CERIAX EC	Helix	MANITOBA + TALUIS
Cerix EC + Ignite	Helix + Imtrex	Mobius
Cloister + Librax	Helix + Mobius	(Protefin)
Comet 200 + Elatus Era	Imtrex + Kestrel	(Unix)

Insecticides

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

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

Trace Elements

Bittersaltz	Magflo 300	(Nutriwise HiQ)
(Bortrac)	(Magphas K)	(Nutriwise Mag Nite)
(Brassitrel)	(Maize Boost)	(Nutriwise Maxstim)
(Croplift)	(Mancozin)	(Nutriwise PK Plus)
(Croprel)	(Mancuflto)	(Phatrei Pro)
(Ferleaf)	(Mantrac DF)	(Safe N 300)
FMC Copper	(Mantrac Pro)	(Stopit)
FMC Jett	(Multiple Pro)	(Zintrac 700)
(Foliar Potash)	N-Lock	Universal Bio
(Gramitrel)	(Nutriwise Copper)	Verdicrop 4-Yield Extra
Human Z50	(Nutriwise Fosfya)	Vytel Liquid Copper

COMBINATION MIXES
HERBICIDES PLUS FUNGICIDES

ALLY MAX SX + CEANDO	HURRICANE + ADEXAR + COMET	Inka SX + Helix
ALLY MAX SX + IMTRET + PROSARO	HURRICANE + AVIATOR + COMET	Inka SX + Kestrel
ALLY MAX SX + MOBIUS	HURRICANE + BOOGIE XPRO + COMET	Inka SX + Manitoba
DUPLOSAN KV + PROSARO	HURRICANE + COMET	Optica Trio + Helix
Gartrel + Jaunt	HURRICANE + CHORD + COMET	OPTICA TRIO + IMTRET + PROSARO
Gartrel + Librax	HURRICANE + COMET + HELIX	Optica Trio + Kestrel
Gartrel + Variano Xpro	HURRICANE + COMET + LIBRAX	Optica Trio + Manitoba
HARMONY M SX+ HELIX + IMTRET	HURRICANE + COMET + OPERA	Optica Trio + Vareon

HARMONY M SX + HELIX		HURRICANE + COMET + PROLINE		(Prompt + Manitoba)
HARMONY M SX + HELIX + MOBIUS		HURRICANE + COMET + SKYWAY XPRO		Prompt + Vareon
HARMONY M SX + IMTREX + PROSARO		HURRICANE + COMET + VARIANO XPRO		RATIO SX + IMTREX + PROSARO
HARMONY M SX + MOBIUS + PROSARO		HURRICANE + PROSARO		Saxon + Manitoba
HARMONY M SX + PROSARO		HURRICANE + TRACKER		Saxon + Vareon

HERBICIDES PLUS FUNGICIDES AND TRACE ELEMENTS

HARMONY M SX + HELIX + IMTREX + HUMAN Z50		HARMONY M SX + PROSARO + HUMAN Z50		PROMPT + PROLINE + FMC MN 400
HARMONY M SX + HELIX + MOBIUS + HUMAN Z50		HARMONY M SX + MOBIUS + PROSARO + HUMAN Z50		SAXON + PROLINE + FMC MN 400
HARMONY M SX + IMTREX + 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 + TALUIS + CHLORMEQUAT + FMC MN 400				
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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 + Gandalf		Comet 200 + Elatus Era + Hallmark with Zeon
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FUNGICIDES PLUS PLANT GROWTH REGULATORS

CERIA EC + AQUASCOPE + CHLORMEQUAT		Kestrel + Chlormequat		SKYWAY 285 XPRO + AQUASCOPE + CHLORMEQUAT
CERIA EC + CHLORMEQUAT + MODDUS 0.2L/HA		MANITOBA + AQUASCOPE + CHLORMEQUAT		SKYWAY 285 XPRO + CHLORMEQUAT + MODDUS 0.2L/HA
Helix + Chlormequat		MANITOBA + CHLORMEQUAT + MODDUS 0.2L/HA		Vareon + Chlormequat

FUNGICIDES PLUS TRACE ELEMENTS

MOBIUS + HUMAN Z50				
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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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Notes:
* Apply in 200l/ha of water

Changes
14th May - updated PGR comments, 19th May - removed Cerone and Terpal PGR tank mixes as products not approved on spring wheat; 24th March 2021 - addition of Multiple Pro, Protefin and Unix; 22nd April 2021 - removal of withdrawn products; 17th May 2021 - addition of Whorl

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Whorl contains fluroxypyr + halauxifen-methyl

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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:

1. The physical compatibility of the mix
2. The crop selectivity of the mix
3. 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	<i>(BOLD ITALICS IN BRACKETS) = Biologically compatible - maintain constant agitation</i>	RED CAPITAL ON BLUE = CROP INJURY

Adjuvants

ADIGOR 0.5%	MSOs	TOIL
BIOPOWER	PHASE II	WET-CIT
BIO SYL	SPO588	
KANTOR	SPRYTE AQUA	

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.

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

Fungicides

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

Insecticides

HALLMARK WITH ZEON		
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Plant Growth Regulators - Do not apply in mix with Pixaro EC 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	<i>(Magflo 300)</i>	<i>(Nutriwise HiQ)</i>
<i>(Bortrac)</i>	<i>(Maaphos K)</i>	<i>(Nutriwise Mag Nite)</i>
<i>(Brassitrel)</i>	<i>(Maize Boost)</i>	<i>(Nutriwise Maxstim)</i>
<i>(Craplift)</i>	<i>(Mancozin)</i>	<i>(Nutriwise PK Plus)</i>
<i>(Craptre)</i>	<i>(Mancuflo)</i>	<i>(Phatrei 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 + FANDANGO	HYPRONE P + SEGURIS	Optica Trio + Vareon
ALLY MAX SX + IMTRET + PROSARO	Inka SX + Kestrel	PROMPT + BONTIMA
ALLY MAX SX + PROSARO	Inka SX + Helix	PROMPT + IMTRET + PROSARO
ALLY MAX SX + SILTRA XPRO	Inka SX + Manitoba	<i>(Prompt + Manitoba)</i>

CYCLOPS + CEANDO	Inka SX + Vareon	PROMPT + PROLINE
DUPLOSAN KV + BONTIMA	Isomec Ultra + Helix	PROMPT + SEGURIS
DUPLOSAN KV + IMITREX + PROSARO	Isomec Ultra + Kestrel	PROMPT + TALIUUS
DUPLOSAN KV + PROSARO	Isomec Ultra + Manitoba	Prompt + Vareon
DUPLOSAN KV + SEGURIS	Isomec Ultra + Vareon	RATIO SX + FANDANGO
DUPLOSAN KV + TALIUUS	MIRCAM PLUS + BONTIMA	RATIO SX + IMITREX + PROSARO
Gartrel + Jaunt	MIRCAM PLUS + IMITREX + PROSARO	RATIO SX + PROSARO
Gartrel + Librax	MIRCAM PLUS + PROSARO	RATIO SX + SILTRA XPRO
Gartrel + Variano Xpro	MIRCAM PLUS + SEGURIS	SAXON + BONTIMA
HARMONY M SX + BONTIMA	MIRCAM PLUS + TALIUUS	SAXON + IMITREX + PROSARO
HARMONY M SX + FANDANGO	Optica Trio + Helix	Saxon + Manitoba
HARMONY M SX + IMITREX + PROSARO	OPTICA TRIO + IMITREX + PROSARO	SAXON + PROLINE
HARMONY M SX + PROSARO	Optica Trio + Kestrel	SAXON + SEGURIS
HARMONY M SX + SILTRA XPRO	Optica Trio + Manitoba	SAXON + TALIUUS
HYPRONE P + BONTIMA	OPTICA TRIO + SEGURIS	Saxon + Vareon
HYPRONE P + IMITREX + PROSARO	OPTICA TRIO + TALIUUS	

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	

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

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 Unik; 22nd April 2021 - removal of withdrawn products; 17th May 2021 - addition of Jaunt

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Whorl contains fluroxypyr + halauxifen-methyl
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