

Annex 1: Minimum number of trials to be conducted in the Northern Zone (version 6, January 2018)

FUNGICIDES

Crop	Target*	Extrapolations acceptable or partly acceptable (underlined) from if the uses are comparable	Minimum number of trials	
			New active ingredients	New formulations of registered active ingredients
Wheat (spring and winter), TRZAS and TRZAW	<i>Zymoseptoria tritici</i> (SEPTTR)		6 to 8	3 to 4
	<i>Blumeria graminis f. sp. tritici</i> (ERYSGT)		4 to 6	2 to 3
	<i>Puccinia recondita</i> (PUCCRE)	<u>Triticale, rye</u>	4 to 6	2 to 3
	<i>Puccinia striiformis</i> (PUCST)	<u>Triticale</u>	4 to 6	2 to 3
	<i>Oculimacula yallundae</i> (PSDCHE)	<u>Triticale, rye</u>	4 to 6	2 to 3
	<i>Pyrenophora tritici-repentis</i> (PYRNTR)	<u>Triticale</u>	3 to 5	2 to 3
	<i>Fusarium</i> spp. (ear) (FUSASP)	<u>Triticale, rye, oat</u>	3 to 5	2 to 3
	<i>Parastagonospora nodorum</i>	<u>Triticale</u>	3 to 5	2 to 3
	Barley (spring and winter), HORVS and HORVW	<i>Blumeria graminis f. sp. hordei</i> (ERYSGH)		4 to 6
<i>Pyrenophora teres</i> (PYRNTE)			4 to 6	2 to 3
<i>Rhynchosporium secalis</i> (RHYNSE)		<u>Triticale, rye</u>	4 to 6	2 to 3
<i>Puccinia hordei</i> (PUCCHD)			4 to 6	2 to 3
<i>Ramularia collo-cygni</i> (RAMUCC)			3 to 5	2 to 3
<i>Fusarium</i> sp. (head blight) (FUSASP)		<u>Barley, wheat, oat</u>	3 to 5	2 to 3
Oat (spring), AVESP	<i>Pyrenophora avenae</i> (PYRNAV)		3 to 5	2 to 3
	<i>Puccinia coronata</i> (PUCCCA)	Ryegrass	3 to 5	2 to 3
	<i>Blumeria graminis f. sp. avenae</i> (ERYSGA)		2 to 3	1 to 2
	<i>Fusarium</i> sp. (head blight) (FUSASP)	Wheat, barley, triticale	2 to 3	1 to 2
Triticale (spring and winter), TTLSO and TTLWI	<i>Blumeria graminis f. sp. tritici</i> (ERYSGT)	Wheat, rye	3 to 5	2 to 3
	<i>Parastagonospora nodorum</i> (LEPTNO)	Wheat, rye	3 to 5	2 to 3
	<i>Puccinia recondita</i> (PUCCRE)	Wheat, rye	3 to 5	2 to 3
	<i>Rhynchosporium secalis</i> (RHYNSE)	Barley, rye	3 to 5	2 to 3
Rye (winter), SECCW	<i>Blumeria graminis f. sp. secalis</i> (ERYSGS)	Wheat, triticale	3 to 5	2 to 3
	<i>Parastagonospora nodorum</i> (LEPTNO)	Wheat, triticale	3 to 5	2 to 3

	<i>Puccinia recondita</i> (PUCCRE)	Wheat, triticale	3 to 5	2 to 3
	<i>Rhynchosporium secalis</i> (RHYNSE)	Wheat, triticale	3 to 5	2 to 3
Potato, SOLTU	<i>Phytophthora infestans</i> (PHYTIN)		6 to 8	3 to 4
	<i>Alternaria solani</i> (ALTESO)		6 to 8	3 to 4
Winter oilseed rape, BRSNW	<i>Sclerotinia sclerotiorum</i> (SCLESC)	Other crops attacked by sclerotinia	4 to 6	2 to 3
	<i>Alternaria brassicae</i> (ALTEBA)	Spring oilseed rape, turnip rape	4 to 6	2 to 3
	<i>Plenodomus lingam</i> (LEPTMA)		4 to 6	2 to 3
	<i>Botryotinia fuckeliana</i> (BOTRCI)	Spring oilseed rape, turnip rape	4 to 6	2 to 3
	<i>Pyrenopeziza brassicae</i> (PYRPBR)	Spring oilseed rape, turnip rape	4 to 6	2 to 3
Sugar/fodder beet, BEAVA/BEAVC	<i>Ramularia beticola</i> (RAMUBE)	<u>Beetroot</u>	3 to 5	2 to 3
	<i>Uromyces betae</i> (UROMBE)	<u>Beetroot</u>	3 to 5	2 to 3
	<i>Erysiphe betae</i> (ERYSBE)	<u>Beetroot</u>	3 to 5	2 to 3
	<i>Cercospora beticola</i> (CERCBE)	<u>Beetroot</u>	3 to 5	2 to 3
Broad bean, VICFX	<i>Peronospora viciae</i> (PEROVI)		3 to 5	2 to 3
	<i>Botrytis fabae</i> (BOTRFA)		3 to 5	2 to 3
	<i>Didymella fabae</i> (ASCOFA)		3 to 5	2 to 3
Pea, PIBSX	<i>Erysiphe pisi</i> (ERYSPI)		3 to 5	2 to 3
	<i>Didymella pisi</i> (ASCOPI)		3 to 5	2 to 3
All other (=minor) targets		See EPPO standard PP 1/257 (1) Efficacy and crop safety extrapolations for minor uses as well as Extrapolation tables for minor uses	2 to 3	1 to 2

INSECTICIDES

Crop	Target	Extrapolations acceptable from (if the uses are comparable)	Minimum number of trials	
			New active ingredients	New formulations of registered active ingredients
Cereals	<i>Rhopalosiphum padi</i> (RHOPPA), <i>Sitobion avenae</i> (MACSAV)	Other cereals	4 to 6	2 to 3
	<i>Oulema melanopus</i> (LEMAME), <i>Oulema gallaeciana</i> (LEMALI)	Other cereals	3 to 5	2 to 3
	<i>Limothrips denticornis</i> (LIMTDE), <i>Haplothrips aculeatus</i> (HAPLAC)	Other cereals	4 to 6	2 to 3
Oilseed rape (spring and winter), BRSNS and BRSNW	<i>Brassicoglyphus aeneus</i> (MELIAE)	Turnip rape and other Brassicaceae for seeds	6 to 8	3 to 4
	<i>Ceutorhynchus obstrictus</i> (CEUTAS)	Turnip rape and other Brassicaceae for seeds	3 to 5	2 to 3
	<i>Dasineura brassicae</i> (DASYBR)	Turnip rape and other Brassicaceae for seeds	3 to 5	2 to 3
	<i>Psylliodes chrysocephala</i> (PSYICH)	Turnip rape and other Brassicaceae for seeds	3 to 5	2 to 3
Sugar/fodder beet, BEAVA/BEAVC	<i>Aphis fabae</i> (APHIFA)	Beetroot	3 to 5	2 to 3

	<i>Thrips angusticeps</i> (THRIAN)		3 to 5	2 to 3
	<i>Blitophaga opaca</i> (BLITOP)		3 to 5	2 to 3
Potato, SOLTU	Aphids (several species)		4 to 6	2 to 3
	<i>Leptinotarsa decemlineata</i> (LPTNDE)		3 to 5	2 to 3
Maize, ZEAMX	<i>Oscinella frit</i> (OSCIFR)	Cereals	3 to 5	2 to 3
Broad bean, VICFX	<i>Aphis fabae</i> , APHIFA		3 to 5	2 to 3
Pea, PIBSX	<i>Cydia nigricana</i> , LASPNI		3 to 5	2 to 3
	<i>Acyrtosiphon pisum</i> , ACYRON		3 to 5	2 to 3
All	Slugs	All crops	3 to 5	2 to 3
	All other (=minor) targets	See EPPO standard PP 1/257 (1) Efficacy and crop safety extrapolations for minor uses as well as Extrapolation tables for minor uses	2 to 3	1 to 2

HERBICIDES

Weed control trials

Crop	Target	Extrapolations acceptable from (if the uses are comparable)	Minimum number of trials	
			New active ingredients	New formulations of registered active ingredients
Winter cereals	Major weed species on the label	Other winter cereals	8 to 10	3 to 4
Spring cereals	Major weed species on the label	Other spring cereals	8 to 10	3 to 4
Winter oilseed rape, BRSNW	Major weed species on the label		8 to 10	3 to 4
Spring oilseed rape, BRSNS	Major weed species on the label	Turnip rape	6 to 8	3 to 4
Potato, SOLTU	Major weed species on the label		6 to 8	3 to 4
Sugar/fodder beet, BEAVA/BEAVC	Major weed species on the label		6 to 8	3 to 4
Maize, ZEAMX	Major weed species on the label		6 to 8	3 to 4
Grass seed crops	Major weed species on the label	Cereals, grassland	4 to 6	2 to 3
Broad bean, VICFX	Major weed species on the label	Pea	3 to 5	2 to 3
Pea, PIBSX	Major weed species on the label	Broad bean	4 to 6	2 to 3
Grassland	Major weed species on the label	Cereals and grass seed crops	6 to 8	3 to 4
	All other (=minor) targets	See EPPO standard PP 1/257 (1) Efficacy and crop safety extrapolations for minor uses as well as Extrapolation tables for minor uses	2 to 3	1 to 2

Selectivity trials

			Minimum number of trials	
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Crop		Extrapolations acceptable or partly acceptable (underlined) from if the uses are comparable	New active ingredients	New formulations of registered active ingredients
Winter wheat, TRZAW		<u>Spring wheat</u>	6 to 8	3 to 4
Winter barley, HORVW		<u>Spring barley</u>	4 to 6	2 to 3
Winter triticale, TTLWI			4 to 6	2 to 3
Winter rye, SECCW				
Spring barley, HORVS		<u>Winter barley</u>	6 to 8	3 to 4
Spring wheat, TRZAS		<u>Winter wheat</u>	4 to 6	2 to 3
Spring oat, AVESP			4 to 6	2 to 3
Winter oilseed rape, BRSNW		<u>Spring oilseed rape, turnip rape</u>	4 to 6	2 to 3
Spring oilseed rape, BRSNS		<u>Winter oilseed rape, turnip rape</u>	4 to 6	2 to 3
Potato, SOLTU			4 to 6	2 to 3
Sugar/fodder beet, BEAVA/BEAVC			3 to 5	2 to 3
Maize, ZEAMX			3 to 5	2 to 3
Grassland		Grass seed crops	3 to 5	2 to 3
Broad bean, VICFX			3 to 5	2 to 3
Pea, PIBSX			3 to 5	2 to 3
Grass seed crops			1 to 2 trials per species	1 trial per species
All other (=minor) targets		See EPPO standard PP 1/257 (1) Efficacy and crop safety extrapolations for minor uses as well as Extrapolation tables for minor uses	2 to 3	1 to 2

PLANT GROWTH REGULATORS*

Crop	Target	Extrapolations acceptable from (if the uses are comparable)	Minimum number of trials	
			New active ingredients	New formulations of registered active ingredients
Winter wheat, TRZAW	Lodging	<u>Spring wheat</u>	4 to 6	2 to 3
Winter barley, HORVW	Lodging	<u>Spring barley</u>	4 to 6	2 to 3
Winter triticale, TTLWI	Lodging		4 to 6	2 to 3
Winter rye, SECCW	Lodging			
Spring barley, HORVS	Lodging	<u>Winter barley</u>	6 to 8	3 to 4
Spring wheat, TRZAS	Lodging	<u>Winter wheat</u>	4 to 6	2 to 3
Spring oat, AVESP	Lodging		4 to 6	2 to 3
Winter oilseed rape, BRSNW	Lodging, winter hardness		3 to 5	2 to 3
Spring oilseed rape, BRSNS	Lodging	<u>Turnip rape</u>	3 to 5	2 to 3

Grass seed crops	Lodging		2 trials per crop species	1 trial per crop species
All other (=minor) targets			2 to 3	1 to 2
DESSICANTS				
Crop	Target	Extrapolations acceptable from (if the uses are comparable)	Minimum number of trials	
			New active ingredients	New formulations of registered active ingredients
Potato, SOLTU			4 to 6	2 to 3
Oilseed rape (spring and winter), BRSNS and BRSNW		Turnip rape and other Brassicaea	4 to 6	2 to 3
All other (=minor) targets			2 to 3	1 to 2
SEED TREATMENTS				
Selectivity trials				
Crop	Target	Extrapolations acceptable or partly acceptable (underlined) from if the uses are comparable	Minimum number of trials	
			New active ingredients	New formulations of registered active ingredients
Winter wheat, TRZAW		<u>Spring wheat</u>	2 to 3	
Spring wheat, TRZAS		<u>Winter wheat</u>	2 to 3	
Winter barley, HORVW		<u>Spring barley</u>	2 to 3	
Spring barley, HORVS		<u>Winter barley</u>	2 to 3	
Winter triticale, TTLWI			2 to 3	
Winter rye, SECCW			2 to 3	
Spring oat, AVESP			2 to 3	

*The 2N dose should be included in trials with plant growth regulators to test for crop selectivity