











Resistance groups determined for all commercial cultivars

- Currently differential set = 16 isolates
- Identify major gene resistance (*RIm1-RIm9*, *LepR1-4*) using differential isolates
 Issues with *LepR2* (two different seed sources, both giving different results)
- Information provided to growers



8 resistance groups including: Group A – RIm1 Group C – RIm3 Group D – LepR1 Group T – RIm5 Group H – RIm7 Group H – RIm7 Group S – LepR3 Many cultivars have multiple groups e.g. ABD













Variaty	2017 Blackleg Rating	2017 Blackleg Rating	e Type	Section A - Resistance group of	Section # - Resistance group of previous year's cultivar (stubble)											
	Bare	Jockey		cultivar	A		C	AB	AC	ABD	ABF	ABS	ABOF	85	BC.	н
CONVENTIONAL VAR	ETES			-			-	-	-	2	-	-			-	-
Numeed Quartz	8		Hybrid	AlD												1
SF Brazzl	i MR		Winter, open politicated	IC.												
Victory#V3002	MI	8	High stability oil, Hybrid	All												
Nuclei Damond*	M2		Hybrid	All												
N/Game*	MS		Open politicated	A.												
TRAZINE TOLERANT	ARE185															
Hystel# 3501T	2		Hybrid	ALC:												
Hyoka# 65011	8		Hybrid	AlD												
Poneer# 44102 11	EMR		Hybrid	AID												
Hyola# 55977	0.62		Hybrid	AID												
Munoid# 415 T1	MI		High stubility of, open pollmaned													
Monoiz# SIS TT	MI		High stability of, open politisated	Different bia	ckleg	winter	ce path	rn, affa	ICTWE P	riation w	rth ext	ing gr	NIPS CUT	ently	rknow	
SF ignite TT	MI	8	Hybrid	- #F												
DG 56017	MI	8	Hybrid	- 10												
DG 67011	MI		Hybrid	10												
ATU-Mako*	M2		Open politrated	- A												
ATE Stripty [®]	MU		Open politivated	c						-						
ieWgor 1 4533	MEMS	2	Hybrid	(46)												
SF Turbine TT	M0.M2	0.602	Hybrid	- 46												
Penser#4570111	MS	R MR	Hybrid	All												
ATS WEBOOP	MS		Open politinated	A												
ATR-Bonito [®]	MS		Open pollinaled													



















R-Av	r interaction	is: What we thought 5 years ago
	Rlm1	
	RIm2	
	RIm3	Surpass 400 Surpass501TT Surpass603CL -
	RIm4	<i>Rlm1</i> and <i>LepR3</i> (based on phenotypic data)
	RIm5	 RIm5 and RIm6 identified in B. juncea
	RIm6	 There are other genes reported by French
	RIm7	researchers but no one has access to the
	RIm9	material
	LepR1	
	LepR2	
	LepR3	
	LepR4	

X	R-Avr interaction	ons: What v	we thought 5 years ago
-	Rlm1	·	AvrLm1
	RIm2	·	AvrLm2
-	RIm3	·	AvrLm3
2.31	Rlm4	·	AvrLm4
and the second	RIm5	·	AvrLm5
	RIm6	·	AvrLm6
100	RIm7		AvrLm7
- il	RIm9		AvrLm9
A1199 1	LepR1	·	AvrLepR1
and a	LepR2	·	AvrLepR2
	LepR3	·	AvrLepR3
	LepR4		AvrLepR4

R-Avr interac	 tions: What we now know LepR3 and RIm2 are cloned. They are alleles of the same gene Surpass400 et al have LepR3 and a second gene (RImS) but NOT RIm1 Mapping suggests RImS and LepR2 may be same gene RIm6 identified in B. napus lines (based on phenotypic data)
LepR3 LepR4	

















