

USDA Released Inbred Lines

Line_Designation	Pedigree	Release_Year	Market_Type	B-line	R-line	Downy_Mildew	Rust	Branching	Oil	Herbicide	Other_Comments
HA 487	HA 466/French B-Line bulk	2017	Oilseed	B-line				NA	HO	IMI	
HA 482	HA 456/FR B	2017	Oilseed	B-line				NA	HO		
RHA 486	RHA 428/RHA 426//CAR 125/AS 4379/3/France R-Line bulk	2017	Oilseed	R-line	PI ₃₄			Branching		IMI	
RHA 485	RHA 463/Almanzor	2017	Oilseed	R-line				Branching			
RHA 484	RHA 440//RHA 377/RHA 348/3//IMI/4/France R-Line bulk	2017	Oilseed	R-line				Branching	HO	IMI	
RHA 483	RHA 440//RHA 377/RHA 348/3//IMI/4/BUL R2	2017	Oilseed	R-line				Branching	HO	IMI	
HA 481	HA 441/HA 444/4/HA 411/ROM PH/3//IMI/87 CAEB//HA 434/HA 412	2016	Oilseed	B-line				NA	HO		
RHA 480	RHA 443/OLIVKO	2016	Oilseed	R-line				Branching		IMI	
RHA 479	RO 12-13//RHA 274/DOB/3//PSC8/4/RHA 418/RHA 419/3//RO12-13//RHA 274/PRS5	2016	Oilseed	R-line				Branching			
RHA 478	RHA 443/RHA 455	2016	Oilseed	R-line				Branching	HO	IMI	
RHA 477	RHA 468/R-7009	2016	Oilseed	R-line	PI-ARG			Branching		IMI	
RHA 476	RHA 344/NID HO//NS-H-924/4/RHA 418/RHA 419/3//RO12-13//RHA 274/PRS5/5/R-7009	2016	Oilseed	R-line				Branching	HO		
HOLS 4	HA 466/PI 170414 + PI372259 bulk	2015	Oilseed	B-line				NA	HO/LP/LS	IMI	
HOLS 3	HA 466/4/HA 466/3//RS5/HA 466//HA 466	2015	Oilseed	B-line				NA	HO/LP/LS	IMI	
HOLS 2	HA 466/4/HA 466/3//RS3/HA 466//HA 466	2015	Oilseed	B-line				NA	HO/LP/LS	IMI	
HOLS 1	HA 466/4/HA 466/3//RS1/HA 466//HA 466	2015	Oilseed	B-line				NA	HO/LP/LS	IMI	
RHA 475	CAR 125/AS 4379//RHA 440/3/RHA 418/RHA 426//YUGO R POP	2011	Oilseed	R-line				Branching		IMI	
RHA 474	RHA 801/AS 4379//RHA 426	2011	Oilseed	R-line				Branching		IMI	
RHA 473	RHA 447//RHA 801/AS 4379	2011	Oilseed	R-line				Branching	HO		
RHA 472	RHA 801/AS 4379//RHA 439	2011	Oilseed	R-line				Branching			
TOCO B1	HA 341/HA 821//Krasnodar 917/3//LG-24	2008	Oilseed	B-line				NA	HO		Run HPLC
TOCO R2	RHA 344/2696-1//Krasnodar 917/3//LG-24	2008	Oilseed	R-line				Branching			Run HPLC
TOCO R1	RHA 344/2696-1//Krasnodar 917/3//LG-24	2008	Oilseed	R-line				Branching			Run HPLC
HA 469	HA 89/NIV//HA 434/HA 412/3//HA 434/SU	2007	Oilseed	B-line				NA	HO	SU	
CONFSCCL B2	HA 441/CONF//CONF	2007	Confection	B-line				NA			
CONFSCCL B1	HA 411/ROM PH//HA 442/3//HA 441/4//CONF/5//CONF	2007	Confection	B-line				NA		IMI	
RHA 471	RHA 801/AS 4379/4//RHA 377/3//RHA 392//RHA 376/SUR	2007	Oilseed	R-line				Branching		SU	
RHA 470	RHA 801/AS 4379/4//RHA 377/3//RHA 392//RHA 376/SUR	2007	Oilseed	R-line				Branching		SU	
CONFSCCL R5	RO12-13//RHA 274/Dobritch/3//PSC8/4//CONF/5//CONF	2007	Confection	R-line				Branching			
CONFSCCL R4	RO12-13//RHA 274/Dobritch/3//PSC8/4//CONF/5//CONF	2007	Confection	R-line				Branching			
CONFSCCL R3	RO12-13//RHA 274/Dobritch/3//PSC8/4//CONF/5//CONF	2007	Confection	R-line				Branching			
CONFSCCL R2	RO12-13//RHA 274/Dobritch/3//PSC8/4//CONF/5//CONF	2007	Confection	R-line				Branching			
CONFSCCL R1	RHA 440/PSC8//CONF/3//CONF	2007	Confection	R-line				Branching			
HA 467	HA 411/ROM PH/4//HA 425/87CAEB/3//HA 89/NIV//HA 434/HA 412	2006	Oilseed	B-line				NA	HO	IMI	
HA 466	HA 411/ROM PH/4//HA 425/87CAEB/3//HA 89/NIV//HA 434/HA 412	2006	Oilseed	B-line				NA	HO	IMI	
HA 465	HA 89/NIV//HA 434/HA 412/3//HA 434/HA 425 (IMI R, ScI)	2006	Oilseed	B-line				NA	HO	IMI	
HA 460	HA 434*3/ RHA 340	2006	Oilseed	B-line	PI-8			NA	HO		
HA 459	HA 434*3//PI 435434	2006	Oilseed	B-line	PI-6			NA	HO		
HA 458	HA 434*3//PI 468435	2006	Oilseed	B-line	PI ₁₇			NA	HO		
RHA 468	RHA 428/3//RHA 426/RHA 419//RHA 440/4//RHA 426/3//RO12-13//RHA274/Dobritch	2006	Oilseed	R-line	PI-ARG			Branching		IMI	
RHA 464	RHA 418/RHA 419/3/ RHA 801//RHA 365//PI 413047	2006	Oilseed	R-line	PI-ARG		R(777)	Branching			
RHA 463	RHA 440/ PSC 8	2006	Oilseed	R-line				Branching			
RHA 462	RHA 439/ IS PH RES	2006	Oilseed	R-line				Branching			
RHA 461	RHA 418/RHA 419/3//RO12-13//RHA 274/Dobritch	2006	Oilseed	R-line				Branching			
HA 457	HA 434//HA 821/Dussol (High Ol.)	2005	Oilseed	B-line				NA	HO		
HA 456	HA 434/S-16 YU (High oleic)	2005	Oilseed	B-line				NA	HO		

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HA 452	HA 335/HA 412	2005	Oilseed	B-line		PI-6		NA			
HA 451	HA 411/Fuksinka 10	2005	Oilseed	B-line				NA			
HA 412 HO	HA 434/HA 412 *4 (High Ol.)	2005	Oilseed	B-line				NA	HO		
RHA 455	RHA 440/HO IS R-line (High oleic)	2005	Oilseed	R-line				Branching	HO		
RHA 454	RHA 447//RHA 440/PSC 8 (High ol.)	2005	Oilseed	R-line				Branching	HO		
RHA 453	RHA 344/Inedi (High oleic)	2005	Oilseed	R-line				Branching	HO		
HA 449	HA 323/HA 290 (Low Cd)	2003	Confection	B-line				NA			Low Cd
HA 448	HA 323/HA 290 (Low Cd)	2003	Confection	B-line				NA			Low Cd
HA 446	HA 335/87CAEB//HA 434/HA 412	2003	Oilseed	B-line		PI-6		NA	HO		
HA 445	HA 434/87CAEB//HA 335/HA 434	2003	Oilseed	B-line		PI-6		NA	HO		
HA 444	HA 434/HA 406	2003	Oilseed	B-line				NA	HO		
HA 442	HA 425/87CAEB//HA 434/HA 412	2003	Oilseed	B-line				NA	HO	IMI	
HA 441	HA 412/SD	2003	Oilseed	B-line				NA			
RHA 450	RHA 324/Primrose (Low Cd)	2003	Confection	R-line				Branching		Low Cd	
RHA 447	RHA 377/RHA 348	2003	Oilseed	R-line				Branching	HO		
RHA 443	RHA 426/RHA 419//RHA 440	2003	Oilseed	R-line		PI-ARG		Branching		IMI	
RHA 440	RHA 377/AS 4379	2003	Oilseed	R-line				Branching			
RHA 439	RHA 377/AS 3211	2003	Oilseed	R-line				Branching			
SURES-1	HA 424/3/HA 406//HA 89/SU Resistance (Sulfonylurea)	2001	Oilseed	B-line				NA		Su	
HA 435	HA 382 High Oleic Selection	2001	Oilseed	B-line				NA	HO		
HA 434	HA 424 High Oleic Selection	2001	Oilseed	B-line				NA	HO		
SURES-2	RHA 377/3/RHA 392//RHA 376/ SU Resistant wild (Sulfonylurea)	2001	Oilseed	R-line				Seg		SU	
RHA 438	RHA 340/RHA 344 High Oleic	2001	Oilseed	R-line		PI-8		Branching	HO		
RHA 437	RHA 340/RHA 344 High Oleic	2001	Oilseed	R-line		PI-8		Branching	HO		
RHA 436	RHA 340/RHA 344 High Oleic	2001	Oilseed	R-line		PI-8		Branching	HO		
HA 433	UC/HA 383	2000	Oilseed	B-line				NA			
HA 432	HA 821/France B-line Bulk	2000	Oilseed	B-line				NA			
HA 431	HA 821/Argentina Pergamino Pop.	2000	Oilseed	B-line				NA			
HA 430	HA 821*2//cmsHA 89*2/ H. paradoxus (PAR 1673)	2000	Oilseed	B-line				NA			
HA 429	HA 821*2//cmsHA 89*2/ H. paradoxus (PAR 1673)	2000	Oilseed	B-line				NA			
HA 425	HA 89*3/H. annuus IMI resistant	2000	Oilseed	B-line				NA		IMI	
RHA 428	RHA 801//RHA 365/PI 413157	2000	Oilseed	R-line		PI ₈		Branching			
RHA 427	RHA 409//RHA 376*2/H. annuus IMI resistant	2000	Oilseed	R-line				Branching		IMI	
RHA 426	RHA 409//RHA 376*2/H. annuus IMI resistant	2000	Oilseed	R-line				Branching		IMI	
HA 424	HA 383/HA 341 Mid-Oleic	1999	Oilseed	B-line				NA	MO		
HA 423	HA 341/HA 821 Mid-Oleic	1999	Oilseed	B-line				NA	MO		
HA 422	HA 341/HA 821 Mid-Oleic	1999	Oilseed	B-line				NA	MO		
HA 421	HA 341/HA 821 Mid-Oleic	1999	Oilseed	B-line				NA	MO		
RHA 420	RHA 373/ARG 1575-2	1999	Oilseed	R-line		PI-ARG		Branching			
RHA 419	RHA 373/ARG 1575-2	1999	Oilseed	R-line		PI-ARG		Branching			
IMISUN-3	HA 292*3/PUR H. annuus Imidazolinone Herbicide Res.	1998	Confection	B-line				NA		IMI	
IMISUN-1	HA 89*3/PUR H. annuus Imidazolinone Herbicide Res.	1998	Oilseed	B-line				NA		IMI	
RHA 418	RHA 801/RHA 274//MYHOCO H-9	1998	Oilseed	R-line				Branching			
RHA 417	RHA 801/NS-RF POP 3 (SUNBURST)	1998	Oilseed	R-line				Branching			
IMISUN-4	RHA 324//RHA 280*2/PUR H. annuus Imidazolinone Herbicide Resistant	1998	Confection	R-line				Branching		IMI	
IMISUN-2	RHA 409//RHA 376*2/PUR H. annuus Imidazolinone Herbicide Resistant	1998	Oilseed	R-line				Branching		IMI	

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HA-R6	HA 323/Ames 3234	1997	Confection	B-line			R(777)	NA			
HA 821 (LS-1)	Low stearic mutant genetic stock	1997	Oilseed	B-line				NA	LS		
HA 821 (LP-1)	Low palmitic mutant genetic stock	1997	Oilseed	B-line				NA	LP		
HA 414	HA 821/2698-1 (HIGH LINOL.)	1997	Oilseed	B-line				NA	HL		
HA 413	HA 821/2698-1 (HIGH LINOL.)	1997	Oilseed	B-line				NA	HL		
HA 382 (LS-2)	Low stearic mutant genetic stock	1997	Oilseed	B-line				NA	LS		
HA 382 (LS-1)	Low stearic mutant genetic stock	1997	Oilseed	B-line				NA	LS		
RHA 416	RHA 274/2696-1 (HIGH LINOL.)	1997	Oilseed	R-line				Branching	HL		
RHA 415	RHA 274/2696-1 (HIGH LINOL.)	1997	Oilseed	R-line				Branching	HL		
RHA 274 (LS-2)	Low Stearic Mutant Genetic Stock	1997	Oilseed	R-line				Branching	LS		
RHA 274 (LS-1)	Low Stearic Mutant Genetic Stock	1997	Oilseed	R-line				Branching	LS		
RHA 274 (LP-2)	Low Palmitic Mutant Genetic Stock	1997	Oilseed	R-line				Branching	LP		
RHA 274 (LP-1)	Low Palmitic Mutant Genetic Stock	1997	Oilseed	R-line				Branching	LP		
R-207	RHA 274/Edirne 87	1997	Oilseed	R-line				Branching			
R-206	RHA 274/Edirne 87	1997	Oilseed	R-line				Branching			
R-202	RHA 274/Edirne 87	1997	Oilseed	R-line				Branching			
R-201	RHA 274/Edirne 87	1997	Oilseed	R-line				Branching			
R-190	RHA 274/Turbo	1997	Oilseed	R-line				Branching			
R-188	RHA 801/Odessa Hybrid Bulk	1997	Oilseed	R-line				Branching			
R-185	RHA 801/Odessa Hybrid Bulk	1997	Oilseed	R-line				Branching			
HA-R8	RHA 377/PI 432512	1997	Oilseed	R-line			R(777)	Branching			
HA-R7	RHA 324/Ames 3234	1997	Confection	R-line			R(777)	Branching			
HA 412	USDAB/SCL B-3 CYCLE 1	1995	Oilseed	B-line				NA			
HA 411	USDA B-LINE SCL REC. SEL C3-1	1995	Oilseed	B-line				NA			
HA 410	B-LINE SCL REC. SEL.	1995	Oilseed	B-line				NA			
HA 407	HA 89/NORTE	1995	Oilseed	B-line				NA			
HA 406	HA 89/SB-1	1995	Oilseed	B-line				NA			
HA 405	HA 89/BULGARIA 2169	1995	Oilseed	B-line				NA			
HA 404	HA 821/RASSVET	1995	Oilseed	B-line				NA			
HA 403	HA89/France B-LINE BULK	1995	Oilseed	B-line				NA			
HA 402	HA 89/RK-74-198-2	1995	Oilseed	B-line				NA			
cmsHA 89 (PEF1)	H. petiolaris ssp. fallax	1995	Oilseed	B-line				NA			
RPEF1	cmsPEF1/ZARIA/RHA 274	1995	Oilseed	R-line				Branching			
RHA 409	ROMANIA R-LINE SCL REC CYCLE C2	1995	Oilseed	R-line				Branching			
RHA 408	ROMANIA R-LINE SCL POP-1	1995	Oilseed	R-line				Branching			
RHA 401	RHA 274/RHA 1185-14-3-4-1	1995	Oilseed	R-line				Branching			
RHA 400	AUSTRALIA 85 R-LINE POP.	1995	Oilseed	R-line				Branching			
RHA 399	RHA 274/ODESKIJ 91	1995	Oilseed	R-line				Branching			
RHA 398	RHA 274/BCD LINE BULK	1995	Oilseed	R-line				Branching			
HA 394	CF RFSS (VWRBS)	1993	Oilseed	B-line				NA			
HA 393	C4 RFSS (VWRBS)	1993	Oilseed	B-line				NA			
HA 390	Armavirskij 50	1993	Oilseed	B-line				NA			
RHA 397	RHA 274/RO-20-10-3-3-2	1993	Oilseed	R-line				Branching			
RHA 396	C4 RFSS (DMRRS)	1993	Oilseed	R-line				Branching			
RHA 395	C4 RFSS (DMRRS)	1993	Oilseed	R-line				Branching			
RHA 392	SELECT	1993	Oilseed	R-line				NA			

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RHA 391	START	1993	Oilseed	R-line			NA			
HA 385	C2 RFSS (VWRBS)	1992	Oilseed	B-line			NA			
HA 384	HA 300/O7657	1992	Oilseed	B-line			NA			
HA 383	HA 300/CM 400	1992	Oilseed	B-line			NA			
HA 382	HA 89/82 Rom. B-line Comp.	1992	Oilseed	B-line			NA			
RHA 389	C2 RFSS (DMRRS)	1992	Oilseed	R-line			Branching			
RHA 388	RHA 274/FELIX	1992	Oilseed	R-line			Branching			
RHA 387	RHA 274/83 ROM. R-LINE B.	1992	Oilseed	R-line			Branching			
RHA 386	82 ROM. R-LINE BULK	1992	Oilseed	R-line			Branching			
HA 380	USDA 1858-7/*3 HA 89	1990	Oilseed	B-line			NA			
HA 379	HA 821/DDR	1990	Oilseed	B-line			NA			short stature
HA 378	HA 821/DDR	1990	Oilseed	B-line			NA			short stature
RHA 381	USDA 1869-3/*3 RHA 274	1990	Oilseed	R-line			Branching			
RHA 377	RHA 299//SOREM HT 58/RHA 801	1990	Oilseed	R-line			Branching			
RHA 376	RHA 296/RHA 266	1990	Oilseed	R-line			NA			
RHA 375	RHA 296/RHA 266	1990	Oilseed	R-line			Branching			
RHA 374	ARG-R43	1990	Oilseed	R-line			Branching			
RHA 373	RHA 274/82ROM-R31	1990	Oilseed	R-line			Branching			
NMS 801	Nuclear Male Sterile RHA 801	1990	Oilseed	R-line			Branching			NMS
NMS 274	Nuclear Male Sterile RHA 274	1990	Oilseed	R-line			Branching			NMS
cmsHA 89(PET2)	H. petiolaris cms	1989	Oilseed	B-line			NA			
cmsHA 89(MAX1)	H. maximiliani cms	1989	Oilseed	B-line			NA			
cmsHA 89(GIG1)	H. giganteus cms	1989	Oilseed	B-line			NA			
RPET2	RESTORER FOR PET2 CMS	1989	Oilseed	R-line			Branching			
RMAX1	RESTORER FOR MAX1 CMS	1989	Oilseed	R-line			Branching			
RGIG1	RESTORER FOR GIG1 CMS	1989	Oilseed	R-line			Branching			
HA 372	H55 Sel.	1988	Oilseed	B-line			NA			
HA 371	H52 Sel.	1988	Oilseed	B-line			NA			
HA 370	RK-74-198	1988	Oilseed	B-line			NA			
HA 369	ARG 8018	1988	Oilseed	B-line			NA			
RHA 368	NS-H-27/RHA 274	1988	Oilseed	R-line			Branching			
RHA 367	NS-H-26/RHA 274	1988	Oilseed	R-line			Branching			
RHA 366	RF-8784/RHA 274	1988	Oilseed	R-line			NA			
RHA 365	SELECT	1988	Oilseed	R-line			NA			
RHA 364	FELIX	1988	Oilseed	R-line			NA			
RHA 363	HYSUN 33/RHA 274	1988	Oilseed	R-line			Branching			
RHA 362	RHA 274/Donskoi	1988	Oilseed	R-line			Branching			
RHA 361	RHA 274/Donskoi	1988	Oilseed	R-line			Branching			
RHA 360	RHA 274/Donskoi	1988	Oilseed	R-line			Branching			
RHA 359	RHA 274/DDR	1988	Oilseed	R-line			Branching			
RHA 358	RHA 274 *3/DDR Short height	1988	Oilseed	R-line			Branching			
RHA 357	RHA 274 *3/DDR Short height	1988	Oilseed	R-line			Branching			
RHA 356	RHA 274 *3/DDR Short height	1988	Oilseed	R-line			Branching			
ND-MTC	Midge Tolerant Composite	1986	Oilseed	B-line			NA			Midge
ND-LBLYS	Late B-line Yield Synthetic	1986	Oilseed	B-line			NA			
ND-EBLYS	Early B-line Yield Synthetic	1986	Oilseed	B-line			NA			

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HA 353	HA 292*2/Pervenets High Oleic	1986	Confection	B-line				NA	HO		
HA 352	HA 292*2/Pervenets High Oleic	1986	Confection	B-line				NA	HO		
HA 351	HA 292*2/Pervenets High Oleic	1986	Confection	B-line				NA	HO		
HA 350	HA 292*2/Pervenets High Oleic	1986	Confection	B-line				NA	HO		
HA 349	HA 292*2/Pervenets High Oleic	1986	Confection	B-line				NA	HO		
HA 343	HA 89 *2/Pervenets High Oleic	1986	Oilseed	B-line				NA	HO		
HA 342	HA 89 *2/Pervenets High Oleic	1986	Oilseed	B-line				NA	HO		
HA 341	HA 89 *2/Pervenets High Oleic	1986	Oilseed	B-line				NA	HO		
HA 339	HA 89 *3/H. praecox 424	1986	Oilseed	B-line				NA			
HA 338	HA 89 *3/H. praecox 419	1986	Oilseed	B-line				NA			
HA 337	HA 89 *3/H. praecox 417	1986	Oilseed	B-line				NA			
HA 336	HA 89 *3/H. annuus 432	1986	Oilseed	B-line				NA			
HA 335	HA 89 *3/H. annuus 423	1986	Oilseed	B-line		PI-6		NA			
RHA 355	RHA 310 *2/Pervenets High Oleic	1986	Confection	R-line				Branching	HO		
RHA 354	RHA 310 *2/Pervenets High Oleic	1986	Confection	R-line				Branching	HO		
RHA 348	RHA 274 *2/Pervenets High Oleic	1986	Oilseed	R-line				Branching	HO		
RHA 347	RHA 274 *2/Pervenets High Oleic	1986	Oilseed	R-line				Branching	HO		
RHA 346	RHA 274 *2/Pervenets High Oleic	1986	Oilseed	R-line				Branching	HO		
RHA 345	RHA 274 *2/Pervenets High Oleic	1986	Oilseed	R-line				Branching	HO		
RHA 344	RHA 274 *2/Pervenets High Oleic	1986	Oilseed	R-line				Branching	HO		
RHA 340	HA 89 *3/H. argophyllus 415	1986	Oilseed	R-line		PI-8		NA			
ND-LRLYS	Late R-line Yield Synthetic	1986	Oilseed	R-line				Branching			
ND-ERLYS	Early R-line Yield Synthetic	1986	Oilseed	R-line				Branching			
ND-BLPL2	B-line Downy Mildew Resistant Composite	1985	Oilseed	B-line				NA			
ND-BLOS	B-line High Oil Composite	1985	Oilseed	B-line				NA			
ND NONOIL M3	Sundak Selection Composite (Midge Resistant)	1985	Confection	B-line				NA			
ND NONOIL M2	HA 288//HA 285//HA 301 Composite (Midge Resistant)	1985	Confection	B-line				NA			
ND NONOIL M1	HA 287//HA 286 Composite (Midge Resistant)	1985	Confection	B-line				NA			
ND NONOIL B5	HA 89//HA 304//HA 292	1985	Confection	B-line				NA			
ND NONOIL B4	Sundak 25-6//Jumbo Israel/RHA 268	1985	Confection	B-line				NA			
ND NONOIL B3	Sundak Sel//HA 292	1985	Confection	B-line				NA			
ND NONOIL B2	CRR-01-1-2//HA 292	1985	Confection	B-line				NA			
ND NONOIL B1	Sundak Sel//Jumbo Israel/RHA 268 Sel	1985	Confection	B-line				NA			
ND NONOIL 3	Nonoil B-line Composite	1985	Confection	B-line				NA			
ND NONOIL 2	Lines from Jumbo Israel/RHA 268	1985	Confection	B-line				NA			
ND NONOIL 1	Lines from Sundak	1985	Confection	B-line				NA			
HA 853	1975 High Yield Composite	1985	Oilseed	B-line				NA			
HA 852	Chernyanka 77//HA 89	1985	Oilseed	B-line				NA			
HA 851	High Oil Population	1985	Oilseed	B-line				NA			
HA 850	High Oil Population	1985	Oilseed	B-line				NA			
HA 323	Sundak Selection (Midge Resistant)	1985	Confection	B-line				NA			
HA 322	HA 288//HA 285//HA 301 (Midge Resistant)	1985	Confection	B-line				NA			
HA 321	HA 287//HA 286 (Midge Resistant)	1985	Confection	B-line				NA			
HA 320	HA 292//HA 304	1985	Confection	B-line				NA			
HA 319	HA 268//HA 285//HA 387	1985	Confection	B-line				NA			
HA 318	HA 304*2//HA 303	1985	Confection	B-line				NA			

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Line_Designation	Pedigree	Release_Year	Market_Type	B-line	R-line	Downy_Mildew	Rust	Branching	Oil	Herbicide	Other_Comments
HA 317	HA 304//HA 286//HA 303	1985	Confection	B-line				NA			
HA 316	HA 304//HA 286//HA 303	1985	Confection	B-line				NA			
RHA 859	NSH 43/RHA 299	1985	Oilseed	R-line				Branching			
RHA 858	P1161/RHA 298	1985	Oilseed	R-line				Branching			
RHA 857	S310/RHA 297	1985	Oilseed	R-line				Branching			
RHA 856	RHA 299/Sorem HT 58	1985	Oilseed	R-line				Branching			
RHA 855	CMS HA 89/RHA 273	1985	Oilseed	R-line				Branching			
RHA 854	RHA 273 Selection	1985	Oilseed	R-line				Branching			
RHA 334	RHA 298 and 299/Nonoilseed Composite	1985	Confection	R-line				Branching			
RHA 333	RHA 298 and 299/Nonoilseed Composite	1985	Confection	R-line				Branching			
RHA 332	RHA 298 and 299/Nonoilseed Composite	1985	Confection	R-line				Branching			
RHA 331	RHA 298 and 299/Nonoilseed Composite	1985	Confection	R-line				Branching			
RHA 330	RHA 298 and 299/Nonoilseed Composite	1985	Confection	R-line				Branching			
RHA 329	RHA 298 and 299/Nonoilseed Composite	1985	Confection	R-line				Branching			
RHA 328	RHA 294/3/R811//HA 292/ RHA 282	1985	Confection	R-line				Branching			
RHA 327	RHA 294/3/R811//Jumbo Israel/R268	1985	Confection	R-line				Branching			
RHA 326	RHA 293/RHA 294	1985	Confection	R-line				Branching			
RHA 325	R811-3	1985	Confection	R-line				Branching			
RHA 324	R811//Jumbo Israel/RHA 268	1985	Confection	R-line				Branching			
ND-RL0S	R-line High Yield Composite	1985	Oilseed	R-line				Branching			
ND-01	High Oleic Composite-Source = Pervenets	1984	Oilseed	B-line				NA	HO		
HA-R5	Guayacan INTA Selection	1984	Oilseed	B-line			R?	NA			
HA-R4	Saenz Pena 74-1-2 Selection	1984	Oilseed	B-line			R?	NA			
HA-R3	Charata Selection	1984	Oilseed	B-line			R?	NA			Unique!
HA-R2	Impira INTA Selection	1984	Oilseed	B-line			R?	NA			Unique!
HA-R1	Pergamino 71/538 Selection	1984	Oilseed	B-line			R?	NA			
HA 315	HA 89//HA 288//HA 292	1984	Confection	B-line				NA			
HA 314	HA 89//HA 288//HA 292	1984	Confection	B-line				NA			
HA 313	HA 89//HA 288//HA 292	1984	Confection	B-line				NA			
HA 312	HA 89//HA 288//HA 292	1984	Confection	B-line				NA			
DM-3	Composite - Source = Progress	1984	Oilseed	B-line				NA			
DM-2	Composite - Source = Novinka	1984	Oilseed	B-line				NA			
HA 822	CM 400 Selection	1983	Oilseed	B-line				NA			
HA 821	HA 300 Selection	1983	Oilseed	B-line				NA			
DM-1	Composite of B-lines	1983	Oilseed	B-line				NA			
BRS-3	Bird Resistant Composite	1983	Oilseed	B-line				NA			
BRS-2	Bird Resistant Composite	1983	Oilseed	B-line				NA			
BRS-1	Bird Resistant Composite	1983	Oilseed	B-line				NA			
RHA 311	RHA 294 Selection	1982	Confection	R-line				Branching			
RHA 310	RHA 294 Selection	1982	Confection	R-line				Branching			
RHA 309	RHA 293 Selection	1982	Confection	R-line				Branching			
HA 308	Sundak Selection	1980	Confection	B-line				NA			
HA 307	Commander Selection	1980	Confection	B-line				NA			
HA 306	Commander Selection	1980	Confection	B-line				NA			
RHA 801	Derived from a Restorer Composite	1980	Oilseed	R-line				Branching			
HA 305	3*Commander/Mennonite RR	1976	Confection	B-line				NA			

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Line_Designation	Pedigree	Release_Year	Market_Type	B-line	R-line	Downy_Mildew	Rust	Branching	Oil	Herbicide	Other_Comments
HA 304	3*Commander/Mennonite RR	1976	Confection	B-line				NA			
HA 303	Voshod (P.I. 371936) Sel	1976	Oilseed	B-line				NA			
HA 302	Peredovik 304 (P.I. 372173) Sel	1976	Oilseed	B-line				NA			
HA 301	Peredovik 301 (P.I. 372172) Sel	1976	Oilseed	B-line				NA			
HA 300	Peredovik 301 (P.I. 372172) Sel	1976	Oilseed	B-line				NA			
HA 292	3*Commander/Mennonite RR	1976	Confection	B-line				NA			
HA 291	INRA 6501 Sel	1976	Oilseed	B-line				NA			
RHA 299	CMS P-21 VRI/T70050 T70050=PI343765/HA119 //HA62-4-5/3/T66008-2	1976	Oilseed	R-line				Branching			
RHA 298	CMS HA89/RHA273	1976	Oilseed	R-line				Branching			
RHA 297	RHA 274 Resel	1976	Oilseed	R-line				Branching			
RHA 296	RHA 274 Resel	1976	Oilseed	R-line				Branching			
RHA 295	CMS Mennonite RR-18-1*3/ T66006-2	1976	Confection	R-line				NA			
RHA 294	CMS PI 343863/Bonita Giant- Manchurian/HA61/Mennonite RR	1976	Confection	R-line				Branching			
RHA 293	3*Commander/Mennonite RR	1976	Confection	R-line				Branching			
HA 290	4*P-21-VR1/HA60	1975	Oilseed	B-line				NA			
HA 289	P-21-VR1 Resel	1975	Oilseed	B-line				NA			
HA 277	P-21-VR2 Resel	1975	Oilseed	B-line				NA			
HA 224	Armavirski 9345 (P.I. 265102)/HA8	1975	Oilseed	B-line				NA			
RHA 279	CMS PI343765/HA119//HA62-4-5/3/T66006-2-2-11-3-2	1975	Oilseed	R-line				Branching			
RHA 278	CMS PI343765/HA119//HA62-4-5/3/T66006-2-2-11-3-2	1975	Oilseed	R-line				Branching			
RHA 276	CMS PI343765/HA119//HA62-4-5/3/T66006-2-2-11-3-2	1975	Oilseed	R-line				Branching			
RHA 275	CMS PI343765/HA119//HA62-4-5/3/T66006-2-2-11-3-2	1975	Oilseed	R-line				Branching			
RHA 272	CMS PI34765/HA119//HA62-4-5/3/T66006-2	1975	Oilseed	R-line				Branching			
1972R	1972 Restorer Line Composite	1975	Oilseed	R-line				Branching			
HA 288	Mennonite RR Selection	1974	Confection	B-line				NA			
HA 287	MG4/Mennonite RR//Mingren/Commander	1974	Confection	B-line				NA			
HA 286	Israel Selection	1974	Confection	B-line				NA			
HA 285	Mennonite RR-18-1 Selection	1974	Confection	B-line				NA			
RHA 282	Boneta Giant Manchurian/ Mennonite RR	1974	Confection	R-line				NA			
RHA 280	Sundak Sel	1974	Confection	R-line				NA			
Sundak	ND 721 Selection	1973	Confection	B-line				NA			
RHA 274	CMS PI343765/HA119//HA62-4-5/3/T66006-2	1973	Oilseed	R-line				Branching			
RHA 273	CMS PI343765/HA119//HA62-4-5/3/T66006-2	1973	Oilseed	R-line				Branching			
RHA 271	CMS PI343765/HA119//HA62-4-5/3/T66006-2-1-31-1=T70020	1973	Oilseed	R-line				Branching			
ND 721	Commander RR Composite	1972	Confection	B-line				NA			
HA 99	VNIIMK 8931 Sel	1971	Oilseed	B-line				NA			
HA 89	VNIIMK 8931 Sel	1971	Oilseed	B-line				NA			
HA 234	2*Smena//HA6/HA8	1971	Oilseed	B-line				NA			
HA 232	2*Smena//HA6/HA8	1971	Oilseed	B-line				NA			
HA 124	VNIIMK 8883	1971	Oilseed	B-line				NA			
HA 113	VNIIMK 1646 Sel	1971	Oilseed	B-line				NA			
P-21-VR1	Peredovik Sel (P-21-4)	1970	Oilseed	B-line				NA			
HA 64	VNIIMK 1646 Sel = cm 316	1970	Oilseed	B-line				NA			
RHA 270	2* Peredovik/953-102-1-1-41	1969	Oilseed	R-line				NA			
RHA 269	2* Peredovik/953-102-1-1-41	1969	Oilseed	R-line				NA			
RHA 267	Mennonite RR-18-1	1969	Confection	R-line				NA			

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Line_Designation	Pedigree	Release_Year	Market_Type	B-line_R-line	Downy_Mildew	Rust	Branching	Oil	Herbicide	Other_Comments
RHA 266	2* Peredovik/953-102-1-1-41 = T66006-2-2-7-8	1969	Oilseed	R-line			NA			
RHA 265	2* Peredovik/953-102-1-1-41 = T66006-2-1-3-1	1969	Oilseed	R-line			NA			
HA 61	953-88-3/Armavirski 3497	1968	Oilseed	B-line			NA			
HA 60	953-102-1-1-22/2*VNIIMK 1646	1968	Oilseed	B-line			NA			