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3Cone™			aroma	3CO	USA - private breeding prog. prop.																				x							
Abis	PL-06/09/13786		aroma	ABS	Poland - private breeding prog. prop.	b.r.											xx															
Adeena®	ADHA-1940		aroma	ADA	USA - private breeding prog. prop.			US patent																	x							
Admiral	RH40		aroma	ADM	England	x	x				x			x		x																
African Queen	J17		aroma	AFQ	South Africa	x																						x				
Agnus	4587		bitter	AGN	Czech Republic	x						x																				
Ahhhroma ™			aroma	AHH	USA - private breeding prog. prop.																				x							
Ahtanum® Brand	YCR 1	Yakima Chief Ranches 1	aroma	AHT	USA - private breeding prog. prop.			US patent																	x							
Aischgründer Historia	H-HP-1607		aroma	AIH	Germany - private breeding prog. prop.	x							x																			
Akoya	99/268		aroma	AKO	Germany - private breeding prog. prop.		x		Hopsteiner	xx			xx										xx									
Alora	HS17701		aroma	ALR	USA - private breeding prog. prop.				Hopsteiner																x							
Alta			bitter	ALT	Ukraine – public	x																		x							
Altus ™	07270		bitter	ATS	USA - private breeding prog. prop.				Hopsteiner																xx							
Amarillo® Brand	VGXP01		aroma	VG1	USA - private breeding prog. prop.		x	US patent					xx												xx							
Amira	HVG ZS01		aroma	AMI	Germany - private breeding prog. prop.		x		HVG				x																			
Anchovy	24B-05		aroma	ACH	USA - Oregon State/ Indie Hops																				x							
Apollo ™	01051		bitter	APO	USA - private breeding prog. prop.		x	US patent	Hopsteiner					x											x							
Aquila			bitter	AQU	USA - public UI																				x							
Aramis	P 05-9		aroma	ARS	France		x								xx																
Ardeal			bitter	ARD	Romania													x														
Ariana	2010/072/020		aroma	ANA	Germany		x						xx																			
Aromatniy	7652943	Ароматный	aroma	AIY	Russia				Chuvash Agrarian State University											x												
Art	5559		aroma	ART	Czech Republic	x						x																				
Astra ™			aroma	AST	Australia - private breeding prog. prop.				Ellerslie																					x		
Aurora	12/61	Super Styrian Aurora	aroma	SSA	Slovenia	x				xx	x												x									
Aurum	96/001/024		aroma	AUR	Germany		x						x																			
Azacca®	ADHA-483		aroma	AZA	USA - private breeding prog. prop.			US patent																	xx							
Aztec ™	GLH-2731		aroma	AZT	USA - private breeding prog. prop.	x			GLH Select Hop																x							
Bačka			aroma	BAC	Serbia	x													x													
Banner			bitter	BAN	USA - public UI																				x							
Barbe Rouge	P 09-2		aroma	BBR	France		x								xx																
Belma®			aroma	BEL	USA - private breeding prog. prop.																				x							
Bergamot ™	GLH-7588		aroma	BRG	USA - private breeding prog. prop.	x			GLH Select Hop																x							
Bitter Gold	7313-083	Bittergold	aroma	BIG	USA - public USDA																				x							

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Blues	N3		aroma	BLU	Czech Republic	x						x																			
Boadicea	OR423		aroma	BOA	England		x									xx															
Bobek		Styrian Golding Bobek	aroma	SGB	Slovenia	x					x											xx									
Bohemie	4837		aroma	BOH	Czech Republic	x						x																			
Boomerang	4914		bitter	BOO	Czech Republic	x						x																			
Bor	VÚCH-70		aroma	BOR	Czech Republic	x						x																			
Bramling Cross	OT 48		aroma	BRX	England						x					x															
Bravo ™	01046		bitter	BRO	USA - private breeding prog. prop.		x	US patent	Hopsteiner															xx							
Breeze	HP200		aroma	BRZ	Czech Rep. - private breeding prog. prop.	x						x																			
Brewer's Gold	C9a		aroma	BGO	England						x		xx		xx			x					x		x		x				
Brokat	UR1		aroma	BRK	Germany		x		Veltins				x																		
BRU-1 ™	BRU-1		aroma	BR1	USA - private breeding prog. prop.			US patent																x							
Bullion	Q43		aroma	BUL	England											x								x	x						
Callista	2010/008/033	Grüngeist, Grungeist	aroma	CAL	Germany		x						xx																		
Calypso ™	03129		aroma	CPO	USA - private breeding prog. prop.			US patent	Hopsteiner															xx							
Cascade	55187	56013, Taiheke®	aroma	CAS	USA - public USDA					xx	xx		xx	xx	x	x	xx	x	x			x		x	xx	x	x		x	x		x
Cashmere			aroma	CMR	USA - public WSU						x													xx		x					
Celeia		Styrian Golding Celeia	aroma	SGC	Slovenia	x				x												xx									
Celeste™	WCHB-102		aroma	CEL	USA - private breeding prog. prop.																			x							
Centennial	W415-90		aroma	CEN	USA - public WSU						x						x		x					xx		x					
Ceres	5512		aroma	CES	Czech Republic	x						x																			
Challenger	4/63/25	Wye Challenger	aroma	CHA	England						xx				x	xx								x							
Chelan®	H87203-1	Chelan/Tillicum	bitter	CHE	USA - private breeding prog. prop.			exp.																x							
Chinook	W421-38		aroma	CHI	USA - public WSU						x		x	xx		x	x		x				x	xx		x			x		
Citra® Brand	HBC 394	Hop Breeding Company 394	aroma	CIT	USA - private breeding prog. prop.			US patent																xx							
Cluster		Gargoyle®, Ivanhoe®	aroma	CLU	USA - public USDA																			x		x					
Coigneau			aroma	COI	Belgium						xx																				
Columbia	6761-61	Meridian	aroma	CBA	USA - public USDA																			x							
Columbus	9/17	CTZ	bitter	CBS	USA - private breeding prog. prop.		x	exp.			x			x	x				x					x		x					
Comet			aroma	COM	USA - public USDA					x	x		x											x		x					
Contessa	04190		aroma	CTA	USA - private breeding prog. prop.				Hopsteiner															xx							
Country			aroma	COU	Czech Republic	x						x																			
Crystal	8309-37		aroma	CRY	USA - public USDA						x													x		x					

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CTZ	9/17; F-10	Columbus, Tomahawk®, Zeus	bitter	CTZ	USA - private breeding prog. prop.			exp.	Columbus: EU-PVR		x			x	x										x	x						
Dana	279/112	Extra Styrian Dana	bitter	DAN	Slovenia	x	x															x										
Delta™			aroma	DEL	USA - private breeding prog. prop.			US patent	Hopsteiner																x							
Diamant	89/002/025		aroma	DNT	Germany		x						x																			
Dolcita®	HBC 1019	Hop Breeding Company 1019, Dolcita® Brand	aroma	DOL	USA - private breeding prog. prop.			US patent																	x							
Dr Rudi		Super Alpha	bitter	DRU	New Zealand	exp.																					x			x		
East Kent Golding		clones Cobbs, Early Bird, Eastwell	aroma	EKG	England				EU-PDO							x																
Eclipse™	HPA-016		aroma	ECL	Australia - private breeding prog. prop.				Hop Products Australia (HPA)																					x		
Efes Aroma			aroma	EFE	Turkey																		x								
Ege			aroma	EGE	Turkey																		x								
Ekuanot® Brand	HBC 366	Equinox, Hop Breeding Company 366	aroma	EKU	USA - private breeding prog. prop.			US patent																	x							
Elani™	YQH1320	YQH1320, Y20	aroma	ELN	USA - private breeding prog. prop.				Yakima Quality Hops																x							
El Dorado® Brand			aroma	ELD	USA - private breeding prog. prop.				CLS Farms																xx							
Elixir	P 13-13		aroma	EXR	France		x								xx																
Ella™			aroma	ELL	Australia - private breeding prog. prop.				Hop Products Australia (HPA)																					x		
Emerald Spire™	GLH-8732		aroma	EMS	USA - private breeding prog. prop.	x			GLH Select Hop																x							
Emperor	4939 - CF169		aroma	EMP	England											x																
Endeavour	15/2		aroma	END	England				British Hop Association (BHA)							x																
Enigma™			aroma	ENI	Australia - private breeding prog.				Hop Products Australia (HPA)																					x		
Erciyas			bitter	ECY	Turkey																		x								
Erebus	HS16660		aroma	EBS	USA - private breeding prog. prop.				Hopsteiner																x							
Eris	5571		aroma	ERI	Czech Republic	x						x																				
Ernest	OZ 97a		aroma	ERN	England				British Hop Association (BHA)							x																
Eroica			bitter	ERO	USA - public UI																				x							
Eureka!™	05256	EUE05256	bitter	EUE	USA - private breeding prog. prop.		x		Hopsteiner				x	x											xx							
[Experimental selections]				EXP												x						x			x				x			
Favorit	0093	Фаворит	aroma	WAV	Russia															x												
First Gold	S4		aroma	FGO	England	x	x				x					xx																
Flagman		Флагман	aroma	WMN	Russia				Chuvashia Res. Inst. of Agriculture											x													
Flyer	29/02/10		aroma	FLY	England				British Hop Association (BHA)							x																
Fuggle			aroma	FUG	England						xx				xx	xx						x			x		x					
Furano Beauty			aroma	FBY	Japan	x			Sapporo																						x	
Furano Blanc®	0802D	Furano 0802D Go	aroma	FBC	Japan	x			Sapporo																						x	

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Furano Flora®	0902D	Furano 0902D Go	aroma	FFL	Japan	x			Sapporo																						x	
Furano Honoka®			aroma	FHK	Japan	x			Sapporo																						x	
Furano Magical®	K906901060, xov170004	Furano K906901060 Go	aroma	FMG	Japan	x	x	US patent	Sapporo																						x	
Furano Queen®	1501U	Furano 1501U Go	aroma	FQN	Japan	x	x	US patent	Sapporo																						x	
Furano Rosa®	0901B	Furano 0901B Go	aroma	FRS	Japan	x			Sapporo																						x	
Furano Special		Furano Spezial	aroma	FUS	Japan	x			Sapporo																						x	
Gaia	4849		bitter	GAA	Czech Republic	x						x																				
Galaxy ™			aroma	GXY	Australia - private breeding prog. prop.				Hop Products Australia (HPA)																					x		
Galena			bitter	GAL	USA - public UI																				x		x					
Gaydamatskyi		Gaidamatski	aroma	GAI	Ukraine – public	x																		x							
Gemini ™	GLH-8582		aroma	GEM	USA - private breeding prog. prop.	x			GLH Select Hop																x							
Glacier			aroma	GLC	USA - public USDA																				x							
Golden Princess	HU ZH APA1		bitter	GPR	Germany		x						x																		x	
Golden Star			bitter	GST	Japan				Sapporo																						x	
Golding		clones Cobbs, Early Bird, Early Choice, Eastwell, Farnham, Mathon	aroma	GOL	England						xx				x	xx									x		x					
Godiva	622 - CF127		aroma	GOD	England											x																
Green Bullet			bitter	GBU	New Zealand	exp.																								x		
Groene Bel			aroma	GRB	Belgium						xx																					
Hallertau Blanc	2007/019/008		aroma	HBC	Germany		x						xx																			
Hallertauer Gold	64/014/235	Hüller Gold	aroma	HGO	Germany	exp.							x																			
Hallertauer Magnum	85/059/003	Magnum	bitter	HMG	Germany	exp.				xx	xx	x	xx	x	x		xx	x				x		x	x		x					
Hallertauer Merkur	93/010/012	Merkur	bitter	HMR	Germany	exp.					x		x	x				x														
Hallertauer Mittelfrüher		Hallertauer	aroma	HAL	Germany						xx		xx												x	x	x					
Hallertauer Taurus	88/055/013	Taurus	bitter	HTU	Germany	exp.				xx	x		x				x															
Hallertauer Tradition	78/028/016	Tradition	aroma	HTR	Germany	exp.				xx	x		xx		x		x	x						x		x	x					
Harlequin®	3932	CF212	aroma	HAN	UK - private breeding prog. prop.				Charles Faram							x																
Harmonie	4353		aroma	HRM	Czech Rep.	x						x																				
Helios ™	15619		bitter	HLO	USA - private breeding prog. prop.		x		Hopsteiner				x	x												x							
Herkules	95/094/816		bitter	HKS	Germany		x		HVG				xx																			
Hersbrucker Pure	78/005/030		aroma	HPU	Germany	exp.							xx																			
Hersbrucker Spät		Hersbrucker	aroma	HEB	Germany					x			xx											x			x					
Hokuto Ace		Furano 18 Go, Furano 18	aroma	HOK	Japan	exp.			Sapporo																						x	
Horizon	7006-398		aroma	HOR	USA - public USDA																				x							

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Huell Classic ™	2013/017/107, H17107		aroma	CLA	Germany		b.r.						x																			
Huell Melon	2009/002/706	Hüll Melon	aroma	HMN	Germany		x						xx																			
Hüller Bitter	58/056/011		aroma	HUB	Germany	exp.												x														
Hydra ™	GLH-74582		aroma	HYD	USA - private breeding prog. prop.	x			GLH Select Hop																x							
Idaho 7® Brand	J-007		aroma	ID7	USA - private breeding prog. prop.																				xx							
Idaho Gem ™ Brand	2012G01		aroma	IDG	USA - private breeding prog. prop.																				x							
Iunga	PTU 1200		bitter	IUN	Poland	x											x															
Izabella			bitter	IZA	Poland												x															
Jarrylo® Brand	ADHA-881		aroma	JAR	USA - private breeding prog. prop.			US patent																	xx							
Jazz			aroma	JAZ	Czech Republic	x						x																				
Jester®	1139	CF120	aroma	JES	UK - private breeding prog. prop.				Charles Faram							x																
Juno	5495		aroma	JUN	Czech Republic	x						x																				
Jupiter	5540		aroma	JUP	Czech Republic	x						x																				
Kaikogane			aroma	JKG	Japan	exp.			Kirin																						x	
Karma®	EXP25		aroma	KAR	USA - private breeding prog. prop.			US patent																	x							
Kazbek			aroma	KAZ	Czech Republic	x						x																				
Keyworths Early	OJ 47		aroma	KWE	England											x																
Keyworths Midseason	OR 55		aroma	KWM	England											x																
Kirin No 2		Kirin 2gou	aroma	JK2	Japan	exp.			Kirin																						x	
Klon-18			aroma	K18	Ukraine – public	x																		x								
Kohatu®	HORT3829		aroma	KHT	New Zealand	x		US patent																						x		
Krilatskiy	Hybrid 38-4	Крылацкий	aroma	KIY	Russia															x												
Krush®	HBC 586, PP31,615	Hop Breeding Company 586, Krush® Brand	aroma	KRU	USA - private breeding prog. prop.			US patent																	x							
Lemondrop ™	01210		aroma	LDP	USA - private breeding prog. prop.		x		Hopsteiner					x											x							
Liberty	8303-117		aroma	LIB	USA - public USDA						x														x							
Lilly	HO 113 / Sissi		aroma	LLY	Germany - private breeding prog. prop.	x							x																			
Little Star			aroma	LST	Japan	x			Sapporo																						x	
Loerenhop			aroma	LOE	Belgium						x																					
Lomik			aroma	LOM	Poland												x															
Loral® Brand	HBC 291	Hop Breeding Company 291	aroma	LOR	USA - private breeding prog. prop.			US patent																	x							
Lórien ™	IH101033		aroma	LRN	USA - private breeding prog. prop.			US pat. b.r.	Indie Hops / OSU																x							
Lotus ™	06297		aroma	LOT	USA - private breeding prog. prop.		x	US patent	Hopsteiner																x							
Lubelski		Lublin, Lublelski	aroma	LUB	Poland												xx															

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Luminosa			aroma	LUM	USA – Oregon State/Indie Hops																				x							
Luna	HPA-033		aroma	LNA	Australia - private breeding prog. prop.				x																				x			
Mackinac ™	GLH-8002		aroma	MAC	USA - private breeding prog. prop.	x			GLH Select Hop																x							
Magnat	4/34		bitter	MGN	Poland	x											xx															
Malling			aroma	MLL	England					xx																						
Mandarina Bavaria	2007/018/013		aroma	MBA	Germany		x						xx																			
Mantiqueira	BRK 2014		aroma	MAQ	Brazil				Brasil Kirin																							
Mapuche		Tehuelche	aroma	MAP	Argentina	exp.			ABInBev																	x	x					
Marco Polo			bitter	MCP	China				Xinjiang Sapporo																							x
Marynka	PCU 480		aroma	MAR	Poland						x						xx															
McKenzie	C-148		aroma	MKZ	USA - private breeding prog. prop.				West Coast Hop Breeding																x							
Medusa ™			aroma	MED	USA - private breeding prog. prop.			US patent																	x							
Melba ™			aroma	MEL	Australia - private breeding prog. prop.				Ellerslie																				x			
Meridian			aroma	MER	USA - private breeding prog. prop.																				x							
Michigan Copper ™	GLH-8001		aroma	MCO	USA - private breeding prog. prop.	x			GLH Select Hop																x							
Millennium			bitter	MLM	USA - private breeding prog. prop.			US patent						xx											x							
Mimosa	5227		aroma	MIM	Czech Republic	x						x																				
Mistral	GS 26		aroma	MTL	France		x								xx																	
Monroe			aroma	MON	Germany - private breeding prog. prop.	x			Barth-Haas				x																				
Mosaic® Brand	HBC 369	Hop Breeding Company 369	aroma	MOS	USA - private breeding prog. prop.			US patent																	xx							
Most	HP111		aroma	MST	Czech Rep. - private breeding prog. prop.				Hop Products, s.r.o.			x																				
Motueka ™		Saaz B	aroma	MKA	New Zealand	exp.																								xx		
Moutere ™	HORT0605	Brooklyn	bitter	MTE	New Zealand	x																								x		
Mt. Hood			aroma	MTH	USA - public USDA						x														xx		x					
Mt. Rainier			aroma	MTR	USA - public USDA																				x							
Murakami Seven			aroma	JM7	Japan				Kirin																						x	
Mystic	6106 - CF160		aroma	MYS	England											x																
Nahuel			aroma	NAH	Argentina	2038			ABInBev																	x						
National		Natsionalnyi	aroma	NAT	Ukraine – private breeding prog. prop.	x																		x							
Nectaron®	HORT4337		aroma	NRN	New Zealand	x		US patent																						xx		
Nelson Sauvin ™	85-03-06		aroma	NSN	New Zealand	exp.																								xx		
Newport			bitter	NWP	USA - public USDA																			x	xx							
Nobella	HS5433		aroma	NBL	Germany - private breeding prog. prop.		b.r.		Hopsteiner				x																			

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Northdown	1/61/55	Wye Northdown	aroma	NOR	England											xx																
Northern Brewer	WFB 135		aroma	NBR	England						xx		x		x									x	x		x					
Nugget	7005-194		bitter	NUG	USA - public USDA						x		x	xx	xx		x							x	xx	x	x					x
NZ Pacific Jade ™	HORT1524	Pacific Jade	bitter	PJA	New Zealand	x																								x		
NZ Southern Cross	77-60	Southern Cross	bitter	SOX	New Zealand	exp.																								x		
Oktawia	PCU 588		bitter	OKT	Poland	exp.											x															
Olicana®	1391	CF109	aroma	OLA	UK - private breeding prog. prop.				Charles Faram							x																
Olympic			bitter	OLC	USA - public WSU																				x							
Onyx ™	GLH-3734		aroma	ONX	USA - private breeding prog. prop.	x			GLH Select Hop																x							
Opal	87/024/056		aroma	OPL	Germany	x					xx		xx																			
Opus	3032 - CF182		aroma	OPU	England											x																
[Other very small acreage cvs]				OTH	USA																				x							
Outeniqua			bitter	OTQ	South Africa	exp.																						x				
Pacific Gem			bitter	PGE	New Zealand	exp.																					x			xx		
Pacifica ™	77-01	Pacific Hallertau, Pacific Hallertauer	aroma	PCA	New Zealand	exp.																								x		
Palisade® Brand	YCR 4	Yakima Chief Ranches 4	aroma	PAL	USA - private breeding prog. prop.			US patent																	xx							
Pandora ™			aroma	PAN	Australia - private breeding prog. prop.				Ellerslie																				x			
Paradigm ™	GLH-49584		aroma	PDM	USA - private breeding prog. prop.	x			GLH Select Hop																x							
Patagonia H-OPI®	LPX/AL006		aroma	OPI	Argentina - Leibrecht/ Lup. Patagon. br. prog.	x		AR pat. pend.	Lúpulos Patagónicos																	x							
Patagonia Passion®	LPX/AL005		aroma	PPA	Argentina - Leibrecht/ Lup. Patagon. br. prog.	x		AR pat. pend.	Lúpulos Patagónicos																	x							
Patagonia Red®	LPX/AL001		aroma	PRD	Argentina - Leibrecht/ Lup. Patagon. br. prog.	2039		AR patent	Lúpulos Patagónicos																	x							
Pazaryeri			bitter	PAZ	Turkey																			x								
Pekko® Brand	ADHA-871		bitter	PEK	USA - private breeding prog. prop.			US patent																	xx							
Perle	66/013/013		aroma	PER	Germany	exp.				xx	xx	x	xx	x	xx		x	x						x	x							
Petit Blanc			aroma	PBC	France								x																			
Phoenix	TC105		aroma	PHX	England	exp.	exp.				xx					x																
Pilgrim	P38		aroma	PGM	England		x				xx					x																
Pilot	S24		aroma	PLT	England		exp.									x																
Pink	ID-158	ID-158	aroma	PNK	USA – private breeding prog. prop.																				x							
Pioneer	W10		aroma	PIR	England	x	x				x					x																
Pixi ™	GLH-315811		aroma	PXI	USA - private breeding prog. prop.	x			GLH Select Hop																x							
Pluto	5580		aroma	PLO	Czech Republic	x						x																				
Podvyzny	Hybrid 14-17	Подвязный	bitter	PDW	Russia															x												

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Polaris	2000/109/728		bitter	PLA	Germany		x						xx																		
Poliskyi		Polesskyi	bitter	POL	Ukraine – public	x																		x							
Premiant	Sm 73/3060		aroma	PRE	Czech Republic	x						xx																			
Pride of Ringwood			bitter	POR	Australia																				x			x			
Progress			aroma	PRO	England											x															
Promin			aroma	PRM	Ukraine – public	x																		x							
Puławski	6/61		aroma	PUL	Poland	x											xx														
Qingdao dahua		Tsingdao Flower	bitter	QID	China																										x
Rakau ™		AlphAroma, AlphaAroma	aroma	RKU	New Zealand																			x					xx		
Ramosa™	D55		aroma	RAM	USA - private breeding prog. prop.			US patent																x							
Ranny		Ранний	aroma	RAN	Russia															x											
Record			bitter	REC	Belgium						x		x																		
Riwaka ™		Saaz D	aroma	RWA	New Zealand																								xx		
Robusta			aroma	ROB	Serbia	x													x												
Rottenburger Spät			aroma	RRS	Germany								x																		
Rubin			bitter	RUB	Czech Republic	x						x																			
Ruslan	99021002		aroma	RLN	Ukraine - private breeding prog. prop.																			x							
SA-1			aroma	SA1	China				Xinjiang Sapporo																						x
Saaz		Žatecký Poloraný Červeňák, Saazer	aroma	SAZ	Czech Republic						xx	xx	x				x				x			x		x					
Saaz Brilliant	4801		aroma	SAI	Czech Republic	x						x																			
Saaz Comfort	4975		aroma	SAC	Czech Republic	x						x																			
Saaz Late	4237		aroma	SAL	Czech Republic	x						x																			
Saaz Shine	5045		aroma	SAH	Czech Republic	x						x																			
Saaz Special	NŠD2002		aroma	SAS	Czech Rep. - private breeding prog. prop.	x						x																			
Sabro® Brand	HBC 438	Hop Breeding Company 438	aroma	SAB	USA - private breeding prog. prop.			US patent																x							
Salampi	7954940	Салампи	aroma	SPI	Russia				Chuvashia Res. Inst. of Agriculture											x											
Samt	J1		aroma	SAM	Germany		x		Veltins				x																		
Santiam			aroma	SNT	USA - public USDA																			x							
Saphir	85/027/020		aroma	SIR	Germany	x				xx	x		xx																		
SAST-1			aroma	ST1	China				Xinjiang Sapporo																						x
SAST-2			aroma	ST2	China				Xinjiang Sapporo																						x
SAST-3			aroma	ST3	China				Xinjiang Sapporo																						x
SAST-4			bitter	ST4	China				Xinjiang Sapporo																						x

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Saturn	**5520**		**aroma**	**STN**	Czech Republic	**x**						**x**																			
Savinjski Golding		**Styrian Savinjski Golding**	**aroma**	**SSG**	Slovenia	**x**				**x**	**xx**				**x**							**x**								**x**		
Serebrianka		**Серебрянка**	**aroma**	**SEK**	Russia															**x**					**x**						
Shinshuwase		**Shinsyu Wase, Sinsyu Wase**	**bitter**	**SSW**	Japan																									**x**	
Simcoe® Brand	**YCR 14**	**Yakima Chief Ranches 14**	**aroma**	**SIM**	USA - private breeding prog. prop.			US patent																	**xx**						
Sladek	**VÚCH-71**		**aroma**	**SLD**	Czech Republic	**x**					**x**	**x**		**x**																	
Slavianka			**aroma**	**SLA**	Ukraine – public	**x**																		**x**							
Smaragd	**87/024/055**		**aroma**	**SGD**	Germany	**x**					**xx**		**xx**																		
Solero	**243/42**		**aroma**	**SOL**	Germany - private breeding prog. prop.		**x**		Hopsteiner				**xx**																		
Sonnet ™			**aroma**	**SON**	USA - private breeding prog. prop.																				**x**						
Sorachi Ace			**aroma**	**SOR**	Japan	**exp.**			Sapporo	**x**	**x**		**x**												**x**		**x**			**x**	
Southern Aroma			**aroma**	**SAR**	South Africa	**x**																						**x**			
Southern Dawn			**bitter**	**SDA**	South Africa	**2030**																						**x**			
Southern Passion			**aroma**	**SPN**	South Africa	**x**																						**x**			
Southern Promise			**bitter**	**SPR**	South Africa	**exp.**																						**x**			
Southern Star			**bitter**	**SST**	South Africa	**exp.**																						**x**			
Southern Sublime	**N1/69**		**aroma**	**SSU**	South Africa	**2044**																						**x**			
Southern Tropic	**U1/108**		**aroma**	**STC**	South Africa	**2044**																						**x**			
Sovereign	**50/95/33**		**aroma**	**SOV**	England		**x**									**xx**															
Spalter		**Spalt**	**aroma**	**SPA**	Germany				EU-PDO				**x**												**x**	**x**					
Spalter Select	**78/003/034**	**Spalt Select**	**aroma**	**SSE**	Germany	**exp.**				**xx**	**xx**		**xx**													**x**	**x**					
Starovolynskyi aromatychnyi			**aroma**	**STA**	Ukraine – public	**x**																		**x**							
Sterling	**9043-52**		**aroma**	**STR**	USA - public USDA																				**xx**		**x**				
Sticklebract			**bitter**	**SBR**	New Zealand																									**x**	
Strata ™	**X331**		**aroma**	**STT**	USA - Oregon State/ Indie Hops			US pat. b.r.																	**x**						
Strisselspalter		**Strissel Spalt**	**aroma**	**FSP**	France						**xx**				**xx**	**xx**									**x**						
Styrian Cardinal ™	**30/96**		**aroma**	**CAR**	Slovenia	**x**	**x**															**x**									
Styrian Dragon	**105/220**		**aroma**	**DRG**	Slovenia	**x**	**x**															**x**									
Styrian Eagle	**35/137**		**aroma**	**EAG**	Slovenia	**x**	**x**															**x**									
Styrian Eureka	**285/70**		**aroma**	**EUR**	Slovenia	**x**	**x**															**x**									
Styrian Fox	**102/44**		**aroma**	**FOX**	Slovenia	**x**	**x**															**xx**									
Styrian Gold	**31/299**		**aroma**	**STG**	Slovenia	**x**	**x**				**x**											**xx**									
Styrian Kolibri	**214/61**		**aroma**	**KOL**	Slovenia	**x**	**x**															**x**									

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Styrian Wolf ™	74/134		aroma	WLF	Slovenia	x	x	US patent														x										
Sultana ™	06277	06277, Denali	aroma	SUL	USA - private breeding prog. prop.		x		Hopsteiner															xx							
Summit ™	AD24-002	ADHA04	bitter	SUM	USA - private breeding prog. prop.		exp.	US patent																x							
Superdelic ™	NZH131		aroma	SDC	New Zealand	x		US patent																					xx		
Super Galena ™		SupGalena	bitter	SGA	USA - private breeding prog. prop.		x	US patent																x							
Super Pride			bitter	SUP	Australia - private breeding prog. prop.				Hop Products Australia (HPA)															x							
Sussex Hop			aroma	SXH	England											x															
Suvar	7652944	Сувар	aroma	SVR	Russia				Chuvash Agrarian State University											x											
Sybilla	PCU 688		aroma	SYB	Poland	exp.											x														
Tahoma			aroma	TAH	USA - public WSU																			x		x					
Talisman			bitter	TLN	USA - public UI																			x							
Talus® Brand	HBC 692	Hop Breeding Company 692	aroma	TAL	USA - private breeding prog. prop.			US patent																x							
Tangier ™	25-22		aroma	TGR	USA - Oregon State/ Indie Hops																			x							
Tango	2011/002/004		aroma	TGO	Germany		x						xx																		
Tardif de Bourgogne			aroma	TDB	France						x		x											xx							
Target	11/65/92	Wye Target	aroma	TRG	England						xx		x		x	xx															
Teamaker			aroma	TMK	USA - public USDA																			xx		x					
Teorem	P14-8		aroma	TRM	France										x																
TerraSurge™	HBC 1325	Hop Breeding Company 1325, TerraSurge™ Brand	bitter	TSU	USA - private breeding prog. prop.			US patent																x							
TerraFlux™	HBC 682	Hop Breeding Company 682, TerraFlux™ Brand	bitter	TFL	USA - private breeding prog. prop.			US patent																x							
Tettnanger		Tettnang	aroma	TET	Germany					x	xx		xx										x	x		x					
Thora	HQG004		aroma	THR	USA - public USDA																			x							
Tillicum®	H87207-2	Tillicum/Chelan	bitter	TIL	USA - private breeding prog. prop.			exp.																x							
Titan	2011/071/019		bitter	TTN	Germany		x						x																		
Tomahawk® Brand	F-10	CTZ	bitter	TOM	USA - private breeding prog. prop.			exp.																x							
Tomyski			aroma	TMY	Poland												x														
Topaz ™			aroma	TOP	Australia - private breeding prog. prop.				Hop Products Australia (HPA)																			x				
Toyomidori		Kirin Flower, Feng Lv	aroma	JTY	Japan				British Hop Association (BHA)							x															x
Traful			aroma	TRA	Argentina																				x						
Transsilvania Romanian Aroma			aroma	TAR	Romania													x													
Triple Pearl		Triplepearl	aroma	TRP	USA - public USDA																			xx		x					
Triskel	P 09-18		aroma	TKL	France		x								xx																
Triumf			aroma	TMF	Ukraine – public	x																	x								

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Triumph	USDA NUG-033		aroma	TRI	USA - public USDA																				x		x					
Ukrainskyi aromatychnyi			aroma	UAA	Ukraine – public	x																		x								
Ultra	8305-17		aroma	ULT	USA - public USDA																				x							
Uran	5165		bitter	URN	Czech Republic	x						x																				
Valkyrie ™	GLH-973XX3		aroma	VLK	USA - private breeding prog. prop.	x			GLH Select Hop																x							
Vanguard	8254-167		aroma	VAN	USA - public WSU																				x							
Vera	W1108-333		aroma	VRA	USA - public USDA	x																			x							
Vic Secret ™			aroma	VIS	Australia - private breeding prog. prop.				Hop Products Australia (HPA)																					x			
Victoria			bitter	VIC	Australia																					x						
Vista	2006009-074	USDA 2006009-074	aroma	VTA	USA - public USDA																				x		x					
Vital	4715		bitter	VIT	Czech Republic	x						x																				
Wai-iti ™	HORT7709		aroma	WTI	New Zealand	x		US patent																							xx		
Waimea ™	HORT3953		bitter	WAI	New Zealand	x		US patent																							x		
Wakatu ™		NZ Hallertau	aroma	WKT	New Zealand																										x		
Warrior® Brand	YCR 5	Yakima Chief Ranches 5	bitter	WAR	USA - private breeding prog. prop.			US patent																	x							
Whitbreads Golding Variety		WGV	aroma	WGV	England						xx					x																
Willamette	6761-117		aroma	WIL	USA - public USDA						x						x								xx	x	x					
Xantia	2001/101/704		bitter	XAN	Germany		x						x																			
Yakima Gold			aroma	YKG	USA - public WSU						x														x		x					
Zagrava			aroma	ZAG	Ukraine – public	x																		x								
Zappa ™	FZMR2		aroma	ZAP	USA - private breeding prog. prop.																				x							
Zeus		CTZ	bitter	ZEU	USA - private breeding prog. prop.																				x	x	x					
Zlato Polissia			aroma	ZLP	Ukraine – public	x																		x								
Zmina			aroma	ZMI	Ukraine – public	x																		x								
Zula			bitter	ZUL	Poland - public IUNG	x											x																
Zumo ™	24B-05		aroma	ZUM	USA - private breeding prog. prop.																				x							