

## 2017 HOP VARIETY LIST



Variety	Alpha acids range %	Cohumulone as % of alpha acids	Total Oils ml/100 g	Characteristics
<b>CZECH REPUBLIC</b>				
AGNUS	10,0-14,0	28-38	2,0-3,0	spicy, earthy, citrus
HARMONIE	5,0-8,0	17-21	1,1-1,9	slightly spicy, banana, hoppy
KAZBEK	5,0-8,0	35-40	0,9-1,8	grapefruit, lemon
PREMIANT	7,0-11,0	18-24	0,9-1,4	herbal, earthy
SAAZ / ŽATECKÝ ČERVENĚK /	2,5-5,0	23-26	0,4-0,9	herbal, floral
SLADEK	4,5-7,5	22-28	0,8-1,1	floral, earthy
<b>GERMANY</b>				
ARIANA	9,5-11,0	25-35	1,6-2,4	black currant, peach,
BREWERS GOLD	5,5-8,5	40-45	0,9-1,2	spicy, black, lemon
CALLISTA	2,5-4,5	25-35	1,4-2,1	hoppy, apricot, raspberry
CASCADE DE	5,5-7,5	30-40	0,8-1,4	fruity, grapefruit
HALLERTAU BLANC	9,0-12,0	22-26	1,2-1,5	fruity,floral,
HALLERTAUER MITTELFRUH	3,0-5,5	18-28	0,7-1,3	herbal, grassy
HALLERTAU TRADITION	4,0-7,0	24-30	0,6-1,1	floral, herbal
HERKULES	12,0-18,0	32-38	1,6-2,4	black current, spicy
HERSBRUCKER	2,5-4,0	17-25	0,4-0,9	herbal
HUELL MELON	7,0-8,0	25-30	0,6-0,9	fruity, melon
MAGNUM	10,0-16,0	21-29	1,6-2,5	clean bitterness
MANDARINA BAVARIA	7,0-10,0	31-35	1,8-2,2	fruity, tangerine
MERKUR	11,0-14,5	17-22	1,4-1,9	clean bitterness
NORTHERN BREWER	6,0-10,0	27-32	1,1-1,6	spicy, resinous
OPAL	5,0-8,0	13-17	0,8-1,2	spicy, sweet
PERLE	5,0-9,0	29-35	0,6-1,5	floral, hoppy
POLARIS	19,0-23,0	22-28	4,1-4,6	fruity, minty
SAPHIR	3,0-5,0	12-17%	0,8-1,4	floral, fruity
SMARAGD	4,0-6,0	13-18	0,4-0,8	low cohumulone, fine hoppy
SPALTER SELECT	3,0-6,0	21-27	0,6-0,9	herbal, floral
TETTNANGER	2,5-5,5	22-28	0,5-0,9	earthy, floral
<b>UNITED KINGDOM</b>				
ADMIRAL	14,0-16,0	35-45	1,0-1,7	resinous, orange
BOADICEA	8,0-9,0	21-27	1,3-1,5	spicy, floral
BRAMLING CROSS	5,0-8,0	26-31	1,1-1,7	spicy, blackcurrant
CHALLENGER	6,5-8,5	20-25	1,0-1,7	spicy, cedary
FIRST GOLD	6,0-9,0	32-34	0,6-1,3	orange, marmalade
FUGGLES	4,0-5,0	25-30	0,7-1,4	grassy, minty, earthy
GOLDING	4,5-6,5	23-28	0,7-1,1	spicy, honey, orange
JESTER	7,0-9,5	23-29	0,8-1,4	grapefruit, lychees
MINSTREL	5,0-7,0	22-26	0,7-1,2	orange, herbal
OLICANA	7,0-9,0	NA	NA	mango, grapefruit
PIONEER	9,0-12,0	35-39	0,9-1,6	cedar, grapefruit
SOVEREIGN	5,0-6,0	26-30	0,6-1,1	grassy, floral, nutty
TARGET	9,0-12,0	35-40	1,2-1,5	pine, cedar
<b>FRANCE</b>				
ARAMIS	6,0-8,5	21-25	1,2-1,6	grassy, citrus
BARBE ROUGE	8,0-9,5	NA	NA	strawberry, bubble gum
STRISSELSPALT	2,5-3,5	22-25	0,7-1,1	herbal, floral
TRISKEL	7,0-9,0	20-23	1,5-2,0	floral, fruity
<b>SLOVENIA</b>				
AURORA	7,5-9,5	30-40	0,9-1,4	floral, citrus, bergamot
STYRIAN GOLDING	4,0-6,5	25-35	0,5-1,1	lemon tea, lemon grass, peppermint
<b>UNITED STATES</b>				

AHTANUM	4,5-6,0	30-35	0,8-1,2	jasmine, lemon
AMARILLO	8,0-11,0	21-24	1,5-1,9	citrus, orange
APOLLO	14,0-18,0	24-28	1,6-2,5	strong herbal, grapefruit
AZACCA	12,0-15,0	26-32	2,1-2,6	citrus, pineapple, piney
BELMA	10,0-12,0	NA	NA	strawberry, pineapple
BRAVO	13,0-17,0	29-34	1,6-2,4	citrusy, fruity, plum,
CALYPSO	11,0-14,0	39-43	1,6-2,5	pear, apple, peach
CASCADE	4,5-7,5	33-40	0,8-1,4	fruity, grapefruit
CENTENNIAL	9,5-11,5	29-30	1,5-2,2	lemon, herbal
CHINOOK	12,0-14,0	29-35	1,7-2,7	spicy, pine
CITRA	11,0-13,0	22-24	2,2-2,9	tropical fruit, citrusy
COLUMBUS / CTZ /	13,0-17,0	28-32	2,1-3,0	black pepper, spicy
COMET	9,0-11,0	38-42	10,1-1,5	grapefruit, citrus
CRYSTAL	3,5-5,5	20-26	1,0-1,5	tangerine, citrus
DELTA	4,0-7,0	22-24	0,-1,1	pineapple, hint of citrus, pear
EL DORADO	13,0-17,0	28-33	2,5-2,8	apricot, watermelon
EUREKA	17,0-19,0	25-30	2,5-3,5	black currant, herbal, pine
GALENA	10,0-14,0	36-40	0,9-1,3	gooseberry, pear
GLACIER	5,0-7,0	11-13 %	0,7-1,5	plum, vanilla, blackberry
IDAHO 7	12,0-15,0	NA	1,2-18	apricot, orange, papaya
JARRYLO	15,0-17,5	25-30	1,8-2,4	banana, pear, orange
LEMONDROP	4,5-7,5	28-35	1,5-2,0	lemon, mint, green tea
LIBERTY	3,0-5,0	24-30	0,6-1,2	lemon, citrus
MOSAIC	12,0-14,0	24-26	1,1-1,5	gooseberry, tangerine
NUGGET	11,0-14,0	22-26	1,8-2,2	lime, ginger
PEKKO	12,0-15,5	35-45	1,5-2,2	citrus, mint
SIMCOE	12,0-14,0	15-20	2,0-2,5	pine-like aroma
SORACHI ACE	10,0-14,0	23-27	2,8-3,2	lemon, coconut
SUMMIT	16,0-18,0	26-33	1,5-2,5	pepper, wild garlic, gooseberry
STERLING	5,0-8,5	23-30	0,9-1,4	lemon, pineapple
WILLAMETTE	4,0-6,0	30-35	1,0-1,5	citrus, elderberry
NEW ZEALAND				
DR.RUDI	10,0-13,0	35-40	NA	lemongrass, pine
NELSON SAUVIN	10,0-13,0	22-26	1,0-1,3	gooseberry, grapefruit
NZ CASCADE / TAIHEKE /	6,0-8,0	33-40	1,1-1,5	grapefruit, floral
MOTUEKA	6,0-7,0	25-35	0,8-1,2	lemon, lime, floral
PACIFIC GEM	13,0-15,5	37-40	1,1-1,4	blackberry, oak, pine
PACIFIC JADE	12,0-14,0	22-26	0,7-1,1	herbal, lemon, black pepper
RAKAU	11,0-14,0	24-30	NA	tropical fruit, passionfruit
RIWAKA	5,0-8,0	29-36	0,8-1,5	grapefruit, tropical fruit
WAIMEA	14,0-18,0	22-30	1,4-1,9	tangerine, pine
WAI-ITI	2,0-4,0	23-28	0,7-1,4	lemon, tangerine
AUSTRALIA				
ELLA	13,0-16,0	NA	2,4-3,4	levender, bergamot
TOPAZ	15,0-18,0	47-50	0,8-1,7	spicy, fruitcake
ORGANIC / BIO / HOP VARIETIES				
CZECH REPUBLIC	Saaz, Premiant			
FRANCE	Brewers Gold, Strisselspalt			
GERMANY	Perle, Polaris, Mandarina, Cascade, Hersbrucker, H.Mittelfruh, Tradition, Select, Saphir, Smaragd			