



HOP SELECTION CHART

VARIETY	COUNTRY OF ORIGIN	ALPHA ACID RANGE %	BETA ACID RANGE %	CO-HUMULONE AS % OF ALPHA	TOTAL OILS MLS/100 GR.	AROMA & FLAVOR CHARACTERISTICS
Amarillo®	United States	8.0 – 11.0	6.0 – 7.0	21 – 24	1.5 – 1.9	Red grapefruit, tropical fruit and ripe melon
Azacca™	United States	14.0 – 16.0	4.0 – 5.5	16 – 18	1.8 – 2.2	Apricot, ripe mango, orchard fruit and pine
Cascade	United States	4.5 – 7.0	4.8 – 7.0	33–40	0.7 – 1.4	Citrus (grapefruit) and floral tones
Centennial	United States	9.5 – 11.5	3.5 – 4.5	29 – 30	1.5 – 2.3	Citrus with undertones of lemongrass and pine
Challenger	United Kingdom	6.5 – 8.5	4.0 – 4.5	20 – 25	1.0 – 1.7	Elements of evergreen and ripe fruit with grassy notes
Chinook	United States	11.0 – 14.0	3.0 – 4.0	29 – 35	1.7 – 2.7	Mountain pine and resin, with citrus notes
Citra®	United States	11.0 – 13.0	3.5 – 4.5	22 – 24	2.2 – 2.8	Tropical fruit including peach, passion fruit and guava
Cluster	United States	5.5 – 8.5	4.5 – 5.5	37 – 43	0.4 – 0.8	Spicy, floral with an earthy blackcurrant undertone
Crystal	United States	3.5 – 5.5	4.5 – 6.5	20 – 26	1.0 – 1.5	Highly floral with touch of noble spice
CTZ	United States	14.5 – 16.5	4.0 – 5.0	28 – 32	2.0 – 3.0	Oily fresh citrus and wild herbal character
Dr. Rudi (Super Alpha)	New Zealand	10.0– 12.0	7.0 – 8.5	36 – 39	1.0 – 1.4	Sweetly grassy with overtones of lemongrass and pine sap
East Kent Golding	United Kingdom	4.0 – 6.5	1.9 – 2.8	28 – 32	0.4 – 0.8	Flowery with citrus peel, lemon and herbal undercurrents
El Dorado™	United States	14.0 – 16.0	7.0 – 8.0	28 – 31	2.5 – 2.8	Candy-like, pear and cherry
Fuggle	United Kingdom	3.0 – 5.6	2.0 – 3.0	25 – 30	0.7 – 1.4	Earthy-sweet, round, with warm wood and mild fruit notes
Galaxy	Australia	13.5 – 15.0	5.8 – 6.0	33 – 35	2.4 – 2.7	Musky tropical fruit like apricot & key lime with black currant
Galena	United States	11.5 – 13.5	7.2 – 8.7	36 – 40	0.9 – 1.3	Pleasant tropical citrus quality with “rustic” edge
Glacier	United States	5.0 – 6.0	8.0 – 8.5	11 – 13	0.7 – 1.6	Floral, with citrus notes when used in flameout
Green Bullet	New Zealand	11.0 – 14.0	6.5 – 7.0	41 – 43	1.0 – 1.4	Distinct floral, with musky notes of melon and red berry
Hallertau Blanc	Germany	9.0 – 11.0	4.0 – 7.0	28 – 35	1.2 – 2.2	Pineapple, gooseberry, white grape, and fresh lemongrass stalk
Hallertau Mittelfrüh	Germany	3.0 – 5.5	3.0 – 5.0	18 – 28	0.7 – 1.3	Sweet, herbal with notes of sweet spice and dried flowers
Horizon	United States	11.0 – 13.0	6.5 – 8.5	16 – 19	1.5 – 2.0	Sweetly floral with tangy hop spice
Huell Melon	Germany	7.0 – 8.0	6.0 – 8.0	25 – 28	0.8 – 1.2	Vivid impression of summer melon and ripe strawberry
Jarrylo™	United States	16.3	7.2	35.4	3.6	Banana, pear, orange and spicy
Kohatu	New Zealand	6.0 – 7.0	5.0 – 6.0	21 – 23	1.0 – 1.5	Bright lime and pineapple with traces of pine
Liberty	United States	3.0 – 5.0	3.0 – 4.0	24 – 30	0.6 – 1.2	Spicy, sweet, grassy and haylike
Magnum	Germany	11.0 – 16.0	5.0 – 7.0	21 – 29	1.6 – 2.6	Mild fresh flower as well as earthy resin
Mandarina Bavaria	Germany	7.0 – 10.0	4.0 – 7.0	3.0 – 6.0	1.5 – 2.2	Intense tangerine and orange candy with herbal follow up
Mosaic™	United States	11.5 – 13.5	3.2 – 3.9	24 – 26	1.0 – 1.5	Strong citrus, balsam pine, blueberry and tropical fruit
Motueka	New Zealand	6.5 – 7.5	5.0 – 5.5	28 – 30	0.8 – 1.0	Sweet and resinous with zingy citrus and herbal notes
Mount Hood	United States	4.0 – 7.0	5.0 – 8.0	21 – 23	1.2 – 1.7	Suggestions of herb-infused honey, floral and green fruit
Nelson Sauvin	New Zealand	12.0 – 13.0	6.0 – 8.0	23 – 25	0.9 – 1.2	Key lime, pine, tropical fruit like lychee and papaya
Northern Brewer	Germany	6.0 – 10.0	3.0 – 5.0	27 – 32	1.0 – 1.6	Spicy, with hints of woods and wild fruit
Nugget	United States	11.5 – 14.0	3.0 – 5.8	22 – 30	0.9 – 2.2	Mild herbal, lemon candy, ginger and fresh oregano
Pacific Gem	New Zealand	13.0 – 15.0	7.0 – 9.0	37 – 40	1.0 – 1.3	Vivid wild forest fruit like blackberry and blackcurrant
Pacific Jade	New Zealand	12.0 – 14.0	7.0 – 8.0	23 – 25	1.1 – 1.5	Mild to moderate musky fruit like melon, lime and blood orange
Pacifica	New Zealand	5.0 – 6.0	5.0 – 6.0	24 – 26	0.9 – 1.2	Orange marmalade, delicate citrus and tangy herbal
Perle	Germany	4.0 – 8.0	2.5 – 4.5	29 – 35	0.5 – 1.5	Sweet, fresh mint and spice
Polaris	Germany	18 – 24	5.0 – 6.5	22 – 29	4.4 – 4.8	Intense wintergreen, eucalyptus and green apple candy
Rakau	New Zealand	9.0 – 11.0	7.0 – 9.0	23 – 25	1.2 – 1.6	Ripe fruit, lemon, grapefruit juice and hints of tropical flowers
Saaz	Czech Republic	3.0 – 6.0	4.5 – 8.0	23 – 26	0.4 – 1.0	Soft spicy and herbal quality with dark floral character
Saphir	Germany	2.0 – 4.5	4.0 – 7.0	12 – 17	0.8 – 1.4	Strong spicy, sweet and citrus fruit overtones
Sorachi Ace	United States	11.0 – 12.5	6.5 – 7.0	23 – 26	1.2 – 1.8	Distinctive lemon, dill and fruit pith
Sovereign	United Kingdom	4.5 – 6.5	2.1 – 3.1	26 – 30	0.6 – 1.0	Intense peach, red currant, berry and cherry
Sterling	United States	6.0 – 9.0	4.0 – 6.0	22 – 28	1.3 – 1.9	Herbal qualities reminiscent of Saaz, flashes of sweet grass
Styrian Golding	Slovenia	4.5 – 6.0	2.0 – 3.5	25 – 30	0.5 – 1.0	Invitingly earthy and resinous character
Summit™	United States	13.5 – 15.5	4.0 – 6.0	26 – 33	1.5 – 2.5	Tangerine, also earthy onion/garlic tones – harvest dependent
Target	United Kingdom	9.5 – 12.5	4.3 – 5.7	35 – 40	1.2 – 1.4	Pungent dried citrus and sagebrush overtones
Tettnang	Germany	2.5 – 5.5	3.0 – 5.0	22 – 28	0.5 – 0.9	Floral, herbal, and spicy with hints of fruit notes
Tradition	Germany	4.0 – 7.0	3.0 – 6.0	24 – 30	0.5 – 1.0	Strong herbal and spice components
Wakatu	New Zealand	6.5 – 8.5	8.0 – 8.5	28 – 30	0.9 – 1.2	Fresh lime zest, citrus oils and Mittlefrüh-style sweetness
Warrior®	United States	14.5 – 16.5	4.3 – 5.3	22 – 26	1.3 – 1.7	Bright ripe fruit, honeysuckle, sweet herbs and green wood
Willamette	United States	4.0 – 6.0	3.0 – 4.5	30 – 35	1.0 – 1.5	Mild with notes of resin, dried fruit and fresh hay