















WELL HOPPED!






**HOP FACTORS & MERCHANTS
FROM FARM TO BREWER
SINCE 1865**

HOP VARIETY BROCHURE

www.wellhopped.com

| Country of origin | Hop variety | Approx. alpha | Cohumulone as % of a.a. | Characteristics | Flavour intensity |
|---|--|---------------|-------------------------|--|-------------------|
|  UNITED KINGDOM VARIETIES | ADMIRAL | 14 - 16 | 37 - 45 | Orange, pine, resinous | 8 |
| | ARCHER®  | 4 - 6 | 32 - 38 | Apricot, lime, floral | 6 |
| | BOADICEA | 6 - 9 | 21 - 27 | Spice, earthy, floral | 6 |
| | BRAMLING CROSS | 5 - 8 | 26 - 31 | Lemon, blackcurrant, spice | 8 |
| | CASCADE | 5 - 9 | 33 - 40 | Floral, grapefruit, orange | 7 |
| | CHALLENGER | 5 - 9 | 20 - 25 | Spice, cedar, green tea | 7 |
| | CHINOOK | 8 - 11 | 29 - 35 | Lemon, grapefruit, pine | 7 |
| | EAST KENT GOLDING | 5 - 8 | 26 - 32 | Spice, honey, earthy | 6 |
| | ENDEAVOUR | 5 - 9 | 30 - 34 | Blackcurrant, spice, lemon | 7 |
| | ERNEST | 5 - 7 | 50 - 55 | Apricot, nectarine, spice | 8 |
| | FIRST GOLD | 6 - 9 | 29 - 34 | Orange, marmalade, spice | 6 |
| | FUGGLE | 4 - 7 | 29 - 30 | Grassy, mint, earthy | 6 |
| | FUSION (perfect for a one off)  | 6 - 8 | 19 - 40 | High aroma fusion | 7 |
| | GODIVA™  | 6 - 9 | 25 - 29 | Tangerine, white grape, spice | 8 |
| | GOLDING | 4 - 8 | 26 - 32 | Spice, honey, earthy | 6 |
| | HARLEQUIN™  | 9 - 12 | 27 - 31 | Passion fruit, peach, pineapple | 8 |
| | JESTER®  | 7 - 9 | 23 - 28 | Grapefruit, blackcurrant, resinous | 8 |
| | KEYWORTH'S EARLY | 5 - 7 | 30 - 35 | Lemon, grapefruit, earthy | 6 |
| | KEYWORTH'S MID-SEASON | 5 - 8 | 46 - 52 | Blackcurrant, lemon, earthy | 6 |
| | MYSTIC™  | 4 - 7 | 35 - 38 | Blackcurrant, orange, passion fruit | 7 |
| | NORTHDOWN | 6 - 9 | 24 - 29 | Spice, cedar, pine | 7 |
| | OLICANA®  | 7 - 9 | 28 - 32 | Mango, passion fruit, floral | 7 |
| | PHOENIX | 9 - 12 | 24 - 28 | Chocolate, caramel, spice | 6 |
| | PILGRIM | 9 - 12 | 36 - 38 | Spice, cedar, honey | 6 |
| | PILOT | 7 - 10 | 28 - 33 | Lemon, spice, earthy | 6 |
| | PIONEER | 9 - 12 | 35 - 39 | Lemon, cedar, herbal | 8 |
| PROGRESS | 5 - 8 | 27 - 36 | Spice, honey, grassy | 6 | |
| SOVEREIGN | 4 - 7 | 22 - 30 | Grassy, floral, earthy | 6 | |
| TARGET | 9 - 12 | 35 - 40 | Pine, orange, cedar | 8 | |
| WGV | 5 - 8 | 32 - 43 | Spice, floral, earthy | 7 | |
|  BELGIAN VARIETIES | CHALLENGER | 5 - 9 | 20 - 25 | Spice, cedar, green tea | 7 |
| | GOLDING | 4 - 8 | 26 - 32 | Spice, honey, earthy | 6 |
| | TARGET | 9 - 12 | 35 - 40 | Pine, orange, cedar | 8 |
| | WGV | 5 - 8 | 32 - 43 | Spice, floral, earthy | 7 |
|  CZECH VARIETIES | KAZBEK | 5 - 8 | 35 - 40 | Lemon, grapefruit, spice | 8 |
| | MOST™  | 7 - 10 | 25 - 32 | Blackcurrant, pineapple, grapefruit | 8 |
| | PREMIANT | 6 - 10 | 18 - 23 | Earthy, herbal, floral | 5 |
| | SAAZ | 2 - 5 | 23 - 26 | Floral, herbal, spice | 6 |
| | SLADEK | 6 - 8 | 22 - 28 | Floral, earthy, spice | 6 |
|  FRENCH VARIETIES | ARAMIS | 6 - 8 | 21 - 22 | Floral, grassy, black pepper | 5 |
| | BARBE ROUGE | 7 - 10 | 24 - 28 | Strawberry, redcurrant, floral | 7 |
| | BOULIER | 7 - 9 | 20 - 25 | Herbal, floral, grassy | 4 |
| | BREWERS GOLD | 5 - 9 | 40 - 48 | Lemon, blackcurrant, spice | 8 |
| | FUGGLE | 4 - 7 | 29 - 30 | Grassy, mint, earthy | 6 |
| | MISTRAL | 6 - 9 | 29 - 39 | Orange, herbal, pear | 6 |
| | SAVINJSKI GOLDING | 2 - 4 | 25 - 30 | Lemon, floral, earthy | 6 |
| | STRISSELSPALT | 2 - 5 | 20 - 25 | Herbal, floral, grassy | 4 |
| | TRISKEL | 3 - 5 | 20 - 23 | Floral, spice, black pepper | 6 |
|  GERMAN VARIETIES | ARIANA | 9 - 13 | 40 - 42 | Blackcurrant, peach, pear | 7 |
| | BREWERS GOLD | 5 - 9 | 40 - 48 | Lemon, blackcurrant, spice | 8 |
| | CALLISTA | 2 - 5 | 54 - 64 | Passion fruit, strawberry, orange | 7 |
| | HALLERTAU BLANC | 9 - 12 | 22 - 26 | White grape, lemongrass, passion fruit | 8 |
| | HERKULES | 16 - 20 | 32 - 38 | Pine, spice, black pepper | 8 |
| | HERSBRUCKER | 2 - 4 | 17 - 25 | Floral, herbal, earthy | 6 |
| | HUELL MELON | 6 - 8 | 25 - 28 | Melon, strawberry, apricot | 8 |
| | MAGNUM | 11 - 15 | 21 - 29 | Herbal, floral, pine | 8 |
| | MANDARINA BAVARIA | 7 - 11 | 31 - 35 | Mandarin, spice, lemon | 7 |
| | MITTELFRUH | 3 - 6 | 18 - 28 | Herbal, floral, grassy | 6 |
| | NORTHERN BREWER | 5 - 9 | 27 - 32 | Spice, herbal, resinous | 6 |
| | PERLE | 6 - 9 | 29 - 35 | Spice, cedar, orange | 7 |
| | POLARIS | 19 - 23 | 22 - 28 | Pine, spice, mint | 6 |
| | SAPHIR | 2 - 4 | 12 - 17 | Floral, herbal, tangerine | 5 |
| | SELECT | 2 - 5 | 21 - 27 | Herbal, floral, earthy | 5 |
| | TETTANANG | 4 - 7 | 22 - 28 | Herbal, floral, earthy | 5 |
| | TRADITION | 4 - 7 | 24 - 30 | Herbal, floral, grassy | 5 |
|  POLISH VARIETIES | CHINOOK | 11 - 15 | 29 - 35 | Grapefruit, lemon, pine | 8 |
| | JUNGA | 10 - 13 | 29 - 34 | Blackcurrant, grapefruit, spice | 7 |
| | LUBELSKI | 3 - 5 | 25 - 28 | Floral, herbal, spice | 5 |
| | MAGNUM | 9 - 14 | 21 - 29 | Herbal, floral, pine | 8 |
| | MARYNKA | 8 - 10 | 26 - 33 | Herbal, floral, lemon | 6 |
| | PERLE | 6 - 9 | 29 - 35 | Cedar, spice, orange | 7 |
| | PULAWSKI | 8 - 11 | 26 - 30 | Herbal, lemon, clove | 7 |
| | SYBILLA | 6 - 8 | 26 - 31 | Lemon, pine, floral | 7 |
| TRADITION | 4 - 7 | 24 - 30 | Herbal, floral, grassy | 5 | |

| | | | | | |
|--|---|---------|------------------------------------|--------------------------------------|---|
|  SLOVENIAN VARIETIES | STYRIAN AURORA | 5 - 9 | 23 - 28 | Spice, floral, lemongrass | 7 |
| | STYRIAN BOBEK | 2 - 5 | 27 - 31 | Lemon, pine, herbal | 7 |
| | STYRIAN CELEIA | 2 - 5 | 26 - 29 | Lemon, lime, floral | 7 |
| | STYRIAN DANA | 9 - 13 | 28 - 31 | Floral, lemon, pine | 7 |
| | KRPAN | 11 - 15 | 29 - 35 | Grapefruit, lemon, pine | 9 |
| | SAVINJSKI GOLDING | 2 - 4 | 25 - 30 | Lemon, lime, earthy | 6 |
| | STYRIAN CARDINAL™ | 8 - 10 | 31 - 37 | Floral, lime, pineapple | 7 |
| | STYRIAN DRAGON | 6 - 11 | 23 - 24 | Passion fruit, lemon, melon | 8 |
| | STYRIAN EAGLE | 12 - 17 | 20 - 23 | Peach, floral, pine | 8 |
| | STYRIAN EUREKA (not to be confused with EUREKA) | 11 - 17 | 21 - 25 | Redcurrant, floral, quince | 6 |
| | STYRIAN FOX | 6 - 12 | 26 - 30 | Blackcurrant, lemongrass, marjoram | 7 |
| | STYRIAN KOLIBRI | 4 - 6 | 21 - 25 | Blackcurrant, elderflower, green tea | 7 |
| | STYRIAN WOLF™ | 13 - 18 | 22 - 23 | Lemon, lemongrass, mango | 8 |
| | TOLAR | 5 - 9 | 33 - 40 | Floral, lemon, lychees | 7 |
|  NEW ZEALAND VARIETIES | CHINOOK | 11 - 15 | 29 - 35 | Grapefruit, citrus, lime | 8 |
| | DR RUDI™ | 11 - 14 | 36 - 39 | Lemongrass, pine, grassy | 8 |
| | GREEN BULLET | 10 - 13 | 41 - 43 | Pine, plum, black pepper | 8 |
| | HORT 4337 | 9 - 12 | | Pineapple, peach, grapefruit | 8 |
| | KOHATU® | 5 - 7 | 18 - 23 | Lime, pineapple, pine | 8 |
| | MOTUEKA™ | 5 - 8 | 25 - 35 | Lime, lemon, floral | 9 |
| | MOUTERE™ | 17 - 20 | 24 - 28 | Grapefruit, resinous, passion fruit | 8 |
| | NELSON SAUVIN® | 10 - 13 | 22 - 26 | White grape, gooseberry, grapefruit | 9 |
| | PACIFICA™ | 4 - 8 | 23 - 27 | Floral, orange, herbal | 6 |
| | PACIFIC GEM | 13 - 15 | 37 - 40 | Blackberry, oak, pine | 7 |
| | NZ PACIFIC JADE™ | 12 - 14 | 22 - 26 | Herbal, lemon, black pepper | 8 |
| | RAKAU™ | 10 - 12 | 24 - 28 | Apricot, passion fruit, pine | 8 |
| | NZ SOUTHERN CROSS™ | 11 - 14 | 25 - 28 | Lemon, pine, herbal | 7 |
| | STICKLEBRACKT | 12 - 15 | 35 - 40 | Pine, lemon, earthy | 7 |
| | TAIHEKE® | 5 - 9 | 33 - 40 | Floral, lemon, grapefruit | 8 |
| | WAI-ITI™ | 2 - 4 | 23 - 28 | Mandarin, peach, lime | 8 |
| | WAIMEA™ | 16 - 19 | 22 - 24 | Orange, pine, resinous | 9 |
| WAKATU™ | 7 - 10 | 28 - 30 | Vanilla, floral, lime | 7 | |
|  AMERICAN VARIETIES | AMARILLO® | 7 - 11 | 21 - 24 | Orange, peach, pink grapefruit | 9 |
| | APOLLO™ | 15 - 19 | 24 - 28 | Pine, lemon, resinous | 8 |
| | AZACCA™ | 14 - 16 | 38 - 45 | Mango, orange, pine | 9 |
| | BELMA® | 9 - 12 | 28 - 35 | Strawberry, melon, pineapple | 7 |
| | BRAVO™ | 14 - 18 | 29 - 34 | Resinous, pine, plum | 8 |
| | CALYPSO™ | 11 - 14 | 40 - 42 | Pear, apple, peach | 8 |
| | CASCADE | 5 - 9 | 33 - 40 | Lychees, floral, grapefruit | 8 |
| | CASHMERE | 7 - 10 | 22 - 24 | Peach, lemon, tangerine | 8 |
| | CENTENNIAL | 7 - 12 | 29 - 30 | Lemon, floral, resinous | 9 |
| | CHINOOK | 11 - 15 | 29 - 35 | Grapefruit, lemon, pine | 9 |
| | CITRA® | 11 - 14 | 22 - 24 | Mango, grapefruit, lime | 9 |
| | CLUSTER | 6 - 9 | 37 - 43 | Blackberry, spice, floral | 6 |
| | COLUMBUS | 14 - 20 | 28 - 32 | Lemon, black pepper, resinous | 8 |
| | COMET | 9 - 11 | 40 - 45 | Grapefruit, mango, pine | 8 |
| | CRYSTAL | 3 - 6 | 20 - 26 | Tangerine, lime, floral | 6 |
| | DELTA™ | 4 - 7 | 22 - 24 | Lime, pineapple, earthy | 5 |
| | EKUANOT® | 13 - 16 | 31 - 36 | Papaya, lime, green pepper | 8 |
| | EL DORADO® | 13 - 17 | 28 - 33 | Pineapple, peach, melon | 8 |
| | EUREKA!™ (not to be confused with Eureka) | 17 - 20 | 28 - 30 | Pine, blackcurrant, grapefruit | 8 |
| | GALENA | 10 - 14 | 36 - 40 | Blackcurrant, spice, grapefruit | 7 |
| | IDAHO 7™ | 9 - 12 | 30 - 40 | Mango, pink grapefruit, pine | 9 |
| | JARRYLO® | 15 - 17 | 34 - 37 | Pear, banana, spice | 7 |
| | LEMONDROP™ | 5 - 7 | 28 - 34 | Lemon, mint, green tea | 7 |
| | LIBERTY | 3 - 5 | 24 - 30 | Spice, lemon, herbal | 6 |
| | MOSAIC® | 10 - 14 | 24 - 26 | Blueberry, mango, passion fruit | 9 |
| | MOUNT HOOD | 4 - 7 | 21 - 23 | Herbal, grapefruit, lemon | 6 |
| | NUGGET | 10 - 14 | 22 - 30 | Spice, pear, herbal | 7 |
| | PEKKO® | 14 - 16 | 27 - 30 | Mint, melon, pineapple | 8 |
| | SIMCOE® | 11 - 15 | 15 - 20 | Pine, grapefruit, passion fruit | 9 |
| | SORACHI ACE | 10 - 14 | 20 - 26 | Lemon, coconut, dill | 8 |
| STERLING | 5 - 9 | 22 - 28 | Lemon, floral, spice | 6 | |
| SUMMIT™ | 13 - 15 | 26 - 33 | Pink grapefruit, tangerine, allium | 8 | |
| WARRIOR® | 13 - 15 | 22 - 26 | Herbal, pine, resinous | 6 | |
| WILLAMETTE | 4 - 7 | 30 - 35 | Blackcurrant, spice, floral | 6 | |

| | | |
|---|---|---|
| ORGANIC VARIETIES |  BELGIUM | Admiral, Challenger, Fuggle, Golding Pilgrim |
| |  CZECH REPUBLIC | Saaz |
| |  GERMANY | Hallertau Blanc, Hersbrucker, Mandarina Bavaria, Opal, Perle, Saphir, Spalt, Select, Smaragd, Tradition |
| |  POLAND | Magnat, Magnum, Marynka, Pulawski |
| |  SPAIN | Admiral, Cascade, Chinook, Willamette. See USA for specs |
| |  NEW ZEALAND | Motueka™, Nelson Sauvin™, Pacific Gem, Rakau™, Wakatu™ |
| |  UNITED KINGDOM (UK) | Challenger, First Gold, Sovereign, Merlin |
|  UNITED STATES (USA) | Amarillo® | |

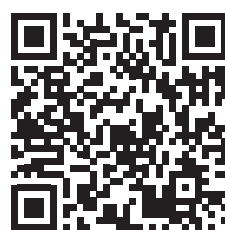


It's a well-known fact that the tastes and fashions of beer change, and the thirst for a more varied beer experience and education is growing. In line with this, we have our own Hop Development Programme, cultivating hundreds of new seedlings each year in our quest to find Your Next Hop Variety. We want to help brewers create great beer so our hops have to inspire you and bring something new. We also want vibrant, healthy hops which support our growers.

So, this is your opportunity to take part in the British Hop Development Programme and to help guide it. If you've brewed with one of its graduates (listed further down this page) or one of our experimental CF-numbered hops, please keep providing us with your brewing feedback via this link or by scanning the QR code. Your participation is hugely valued.

www.charlesfaram.co.uk/hop-development-feedback-form/

SCAN THE QR CODE



“ Harlequin™ Fantastic aromas from opening the Freshpak to racking into cask. The result, as always met the expectations following the tasting notes provided by Faram's. A fruity, floral aroma followed by a punchy tropical passion fruit, pineapple flavour. ”

– Acorn Brewery

“ With our new pilsner, Acapella, we wanted to make something that showed off how well the pilsner style can showcase hops. ”

First Gold adds orange pith and resin, while the Archer® adds a floral note. ”

– Yonder Brewing



| | | | | | |
|-----------------------|------------------------------------|------------------------------|---------------------------------|-------------------------------------|-------------------------------|
| ARCHER® | JESTER® | OLICANA® | HARLEQUIN™ | MYSTIC™ | GODIVA™ |
| Apricot, lime, floral | Grapefruit, resinous, blackcurrant | Mango, passion fruit, floral | Passion fruit, peach, pineapple | Blackcurrant, orange, passion fruit | Tangerine, white grape, spice |
| 4-6 | 7-9 | 7-9 | 9-12 | 4-7 | 6-9 |
| 32-38 | 23-28 | 28-32 | 27-31 | 35-38 | 25-29 |

The aroma and flavour of a hop helps the brewer to select the varieties to use in each style of beer.

Alpha %: Alpha acid is the measurement brewers use to calculate the amount of hops needed to achieve their target bitterness.

Cohumulone % (one of the main alpha acids): Low Cohumulone generally gives a smoother bitterness. High Cohumulone is a crisper, sharper bitterness.

www.wellhopped.com

HOP FACTORS & MERCHANTS SINCE 1865

Charles Faram & Co Ltd

The Hop Store, Monksfield Lane, Newland, Malvern. WR13 5BB

Tel: + 44 (0) 1905 830734 Email: sales@charlesfaram.co.uk