



**CHARLES  
FARAM**

1865

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**HOP FACTORS  
AND MERCHANTS  
SINCE 1865**

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[WWW.CHARLESFARAM.COM](http://WWW.CHARLESFARAM.COM)

COUNTRY OF ORIGIN	HOP VARIETY	APPROX ALPHA	COHUMULONE AS % OF A.A	HOP CHARACTERISTICS	FLAVOUR INTENSITY OUT OF 10
<b>UNITED KINGDOM</b> REGION STATS: » HEREFORDSHIRE » WORCESTERSHIRE » KENT 45 FARMS 517 HA	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
	 EMPEROR®	6-8	35-38	Orange, lemon, resinous	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
	 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
	 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
	 OPUS®	5-7.5	32-36	Floral, herbal, orange	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	
<b>CZECH REPUBLIC</b> 121 FARMS 4,852HA	KAZBEK	5-8	35-40	Lemon, grapefruit, spice	8
	 MOST™	7-10	25-32	Strawberry, apricot, spice	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
<b>FRANCE</b> 38 FARMS 574 HA	BARBE ROUGE	7-10	24-28	Strawberry, redcurrant, floral	7
	BOUCLIER	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
<b>GERMAN</b> REGION STATS: » HALLERTAU » TETTANG » SPALT 1,041 FARMS 20,320 HA	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
	HERSBRUKER	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	7
	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
	SAPHIR	2-4	12-17	Floral, herbal, tangerine	5
	SELECT	2-5	21-27	Herbal, floral, earthy	5
	TETTANG	4-7	22-28	Herbal, floral, earthy	5
TRADITION	4-7	24-30	Herbal, floral, grassy	5	
<b>POLAND</b> 643 FARMS 1,652 HA	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	7
	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

COUNTRY OF ORIGIN	HOP VARIETY	APPROX ALPHA	COHUMULONE AS % OF A.A	HOP CHARACTERISTICS	FLAVOUR INTENSITY OUT OF 10
<b>SLOVENIA</b> REGION STATS: » SAVINJA VALLEY » SMARTNO 140 FARMS 1,657 HA	AURORA	5-9	23-28	Spice, floral, lemongrass	7
	BOBEK	2-5	27-31	Lemon, pine, herbal	7
	CELEIA	2-5	26-29	Lemon, lime, floral	7
	DANA	9-13	28-31	Floral, lemon, pine	7
	KRPAN	11-15	29-35	Grapefruit, lemon, pine	8
	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	11-17	21-25	Redcurrant, floral, quince	6
	STYRIAN KOLIBRI	4-6	21-25	Blackcurrant, elderflower, green tea	7
STYRIAN WOLF™	13-18	22-23	Lemon, lemongrass, mango	8	
<b>NEW ZEALAND</b> REGION STATS: » MOTUEKA VALLEY » RIWAKA » WAI-ITI 35 FARMS 1,400 HA	DR RUDI™	11-14	36-39	Lemongrass, pine, grassy	8
	GREEN BULLET	10-13	41-43	Pine, plum, black pepper	8
	KOHATU®	5-7	18-23	Lime, pineapple, pine	8
	MOTUEKA™	5-8	25-35	Lime, lemon, floral	9
	MOUTERE™	15-18	24-28	Grapefruit, resinous, passion fruit	8
	NECTARON®	10-14	25-28	Pineapple, peach, grapefruit	9
	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
	RIWAKA™	4-7	29-38	Grapefruit, lemon, pine	9
	NZ SOUTHERN CROSS™	11-14	25-28	Lemon, pine, herbal	7
	SUPERDELIC™	9-12	25-28	Mango, passionfruit, spice	9
	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	
<b>AMERICA</b> REGION STATS: » WASHINGTON » OREGON » IDAHO 67 FARMS 17,845 HA	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
	ELANI™	9-11	30-34	Tangerine, peach, pineapple	8
	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
	SABRO®	12-16	20-24	Lemon, coconut, resinous	9
	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
TALUS™	7-10	34-39	Grapefruit, pine, spice	8	
VISTA	11-12	30-35	Melon, papaya, peach	8	
WARRIOR®	13-15	22-26	Herbal, pine, resinous	6	
WILLAMETTE	4-7	30-35	Blackcurrant, spice, floral	6	
ZAPPA™	4-9	40-45	Passion fruit, spice, mint	8	
<b>ORGANIC VARIETIES</b>	CZECH REPUBLIC	Saaz			
	GERMANY	Hallertau Blanc, Hersbrucker, Mandarina Bavaria, Perle, Saphir, Spalt, Select, Tradition			
	POLAND	Magnat, Magnum, Marynka, Pulawski			
	NEW ZEALAND	Motueka™, Nelson Sauvin™, Pacific Gem, Nectaron®			
	UNITED KINGDOM	Challenger, Sovereign			
	UNITED STATES	Amarillo®, Citra®, Mosaic®, Chinook, Cascade			



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# HOP DEVELOPMENT VARIETIES



## **ARCHER®**

Lime, apricot, floral

Alpha % 4-6

Cohumulone % 32-38  
(one of the main alpha acids)



## **GODIVA™**

Tangerine, white grape, spice

Alpha % 6-9

Cohumulone % 25-29  
(one of the main alpha acids)



## **HARLEQUIN®**

Passion fruit, peach, pineapple

Alpha % 9-12

Cohumulone % 27-31  
(one of the main alpha acids)



## **JESTER®**

Grapefruit, resinous, blackcurrant

Alpha % 7-9

Cohumulone % 23-28  
(one of the main alpha acids)



## **MYSTIC™**

Blackcurrant, orange, passion fruit

Alpha % 4-7

Cohumulone % 35-38  
(one of the main alpha acids)



## **OLICANA®**

Mango, floral, passion fruit

Alpha % 7-9

Cohumulone % 28-32  
(one of the main alpha acids)



## **MOST™**

Strawberry, apricot, spice

Alpha % 7-10

Cohumulone % 25-32  
(one of the main alpha acids)



## **OPUS®**

Floral, herbal, orange

Alpha % 5-7.5

Cohumulone % 32-36  
(one of the main alpha acids)



## **EMPEROR®**

Orange, lemon, resinous

Alpha % 6-8

Cohumulone % 35-38  
(one of the main alpha acids)

**HELPING BREWERS CREATE GREAT BEERS**

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