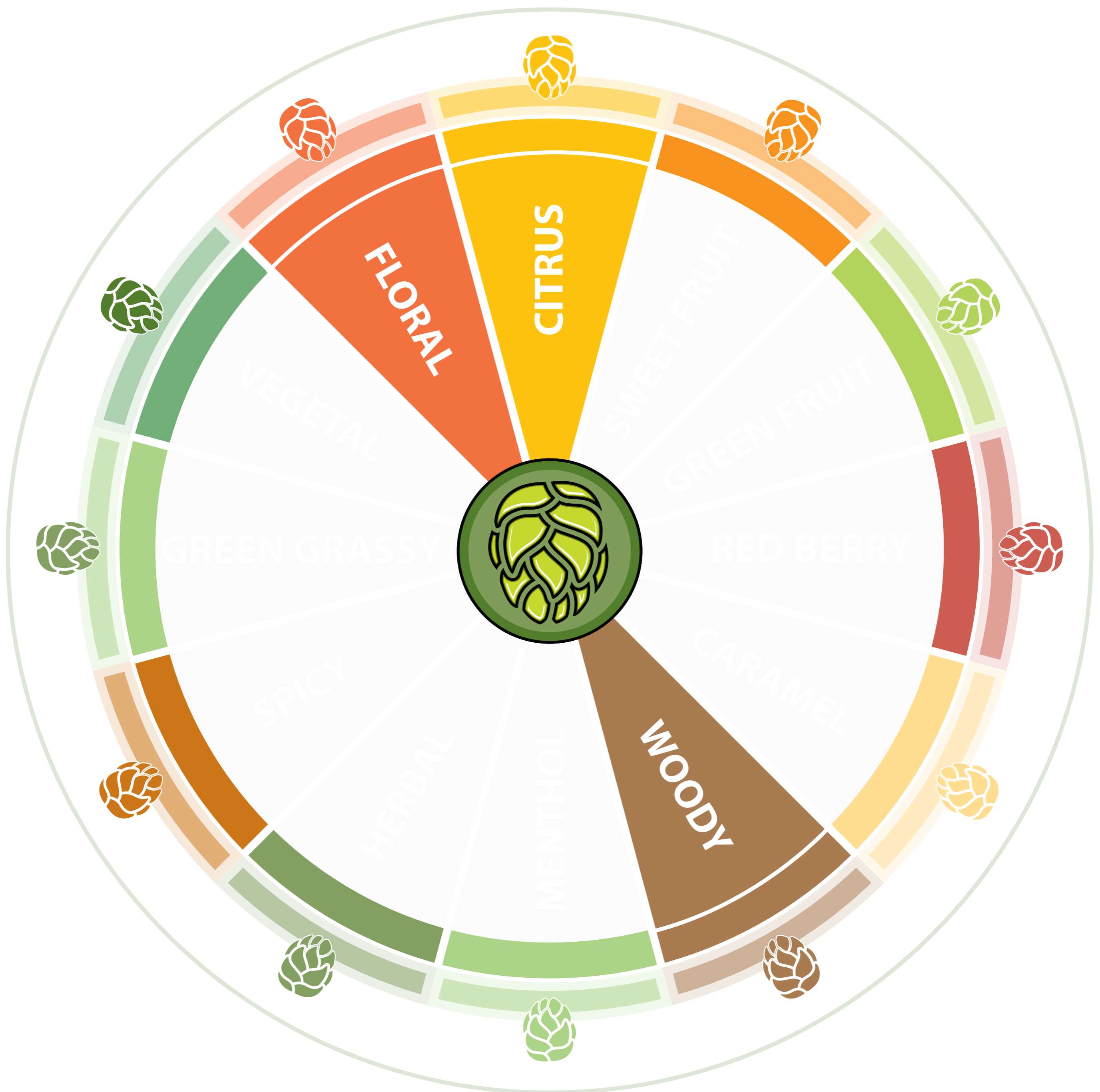


CASCADE

UNITED STATES



CASCADE WAS DEVELOPED IN THE UNITED STATES DEPARTMENT OF AGRICULTURE (USDA) BREEDING PROGRAM AT OREGON STATE UNIVERSITY AND RELEASED IN 1972. IT IS CHARACTERIZED BY ITS DARK GREEN ELONGATED CONE. FOR MANY YEARS, CASCADE WAS THE DEFINITIVE HOP OF AMERICAN CRAFT BREWS. IT WAS OBTAINED BY CROSSING AN ENGLISH FUGGLE WITH A MALE PLANT DERIVED FROM THE RUSSIAN VARIETY, SEREBRIANKA.

TECHNICAL DATA

ALPHA (%): 4.5-7.0

BETA (%): 4.8-7.0

COHUMULONE (% OF ALPHA ACIDS): 33-40

TOTAL OIL (ML/100G): 0.7-1.4

MYRCENE (% OF TOTAL OIL): 45-60

HUMULENE (% OF TOTAL OIL): 8-13

CARYOPHYLLENE (% OF TOTAL OIL): 3-6

FARNESENE (% OF TOTAL OIL): 3-7

LINALOOL (% OF TOTAL OIL): --

TOTAL POLYPHENOLS (%): 4.5-4.9



WILLAMETTE VALLEY HOPS