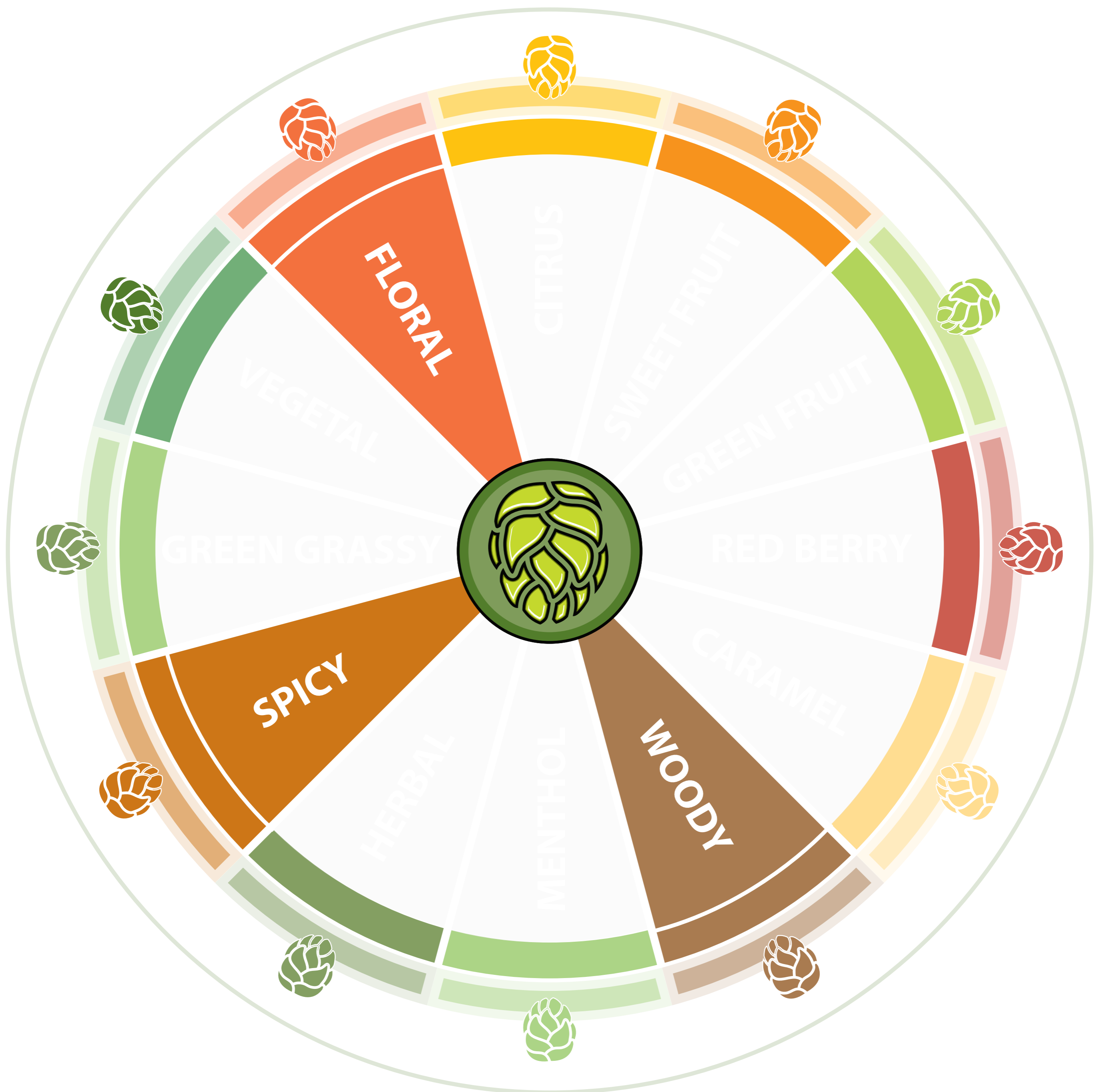


CRYSTAL

UNITED STATES



CRYSTAL IS A TRIPLOID VARIETY DEVELOPED FROM THE GERMAN AROMA HOP VARIETY HALLERTAUER MITTELFRÜH WITH LINEAGE CONTRIBUTIONS FROM CASCADE, BREWER'S GOLD AND EARLY GREEN. RELEASED IN 1993 FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE (USDA) BREEDING PROGRAM, CRYSTAL HAS BECOME POPULAR IN U.S. CRAFT BREWING AS A TRIPLOID HALLERTAU TYPE. IT IS A HALF-SISTER OF MT. HOOD AND LIBERTY. FLAVORS: CEDAR, MYRRH, CHAMOMILE, NUTMEG.

TECHNICAL DATA

ALPHA (%): 4.0-6.0

BETA (%): 5.0-6.7

COHUMULONE (% OF ALPHA ACIDS): 20-26

TOTAL OIL (ML/100G): 0.8-2.1

MYRCENE (% OF TOTAL OIL): 40-65

HUMULENE (% OF TOTAL OIL): 18-24

CARYOPHYLLENE (% OF TOTAL OIL): 4-8

FARNESENE (% OF TOTAL OIL): <1

LINALOOL (% OF TOTAL OIL): --

TOTAL POLYPHENOLS (%): --



WILLAMETTE VALLEY HOPS