

| 2019 US-Grown Hop Variety Codes:      |      | Aug-19                            |      |
|---------------------------------------|------|-----------------------------------|------|
| Brand/Variety                         | Code | Brand/Variety                     | Code |
| Ahtanum <sup>®</sup> Brand YCR 1      | AHT  | Medusa <sup>™</sup>               | MED  |
| Alpharoma                             | AAA  | Meridian                          | MER  |
| Amarillo <sup>®</sup> , VGXP01        | VG1  | Millennium                        | MLM  |
| Apollo <sup>™</sup>                   | APO  | Mosaic <sup>®</sup> Brand HBC 369 | MOS  |
| Aquila                                | AQU  | Mt. Hood                          | MTH  |
| Azacca <sup>®</sup> , ADHA-483        | AZA  | Mt. Rainier                       | MTR  |
| Banner                                | BAN  | Newport                           | NWP  |
| Belma                                 | BEL  | Northern Brewer                   | NBR  |
| Bitter Gold                           | BIG  | Nugget                            | NUG  |
| Bravo <sup>™</sup>                    | BRO  | Olympic                           | OLC  |
| Brewers Gold                          | BGO  | Other                             | OTH  |
| BRU-1                                 | BR1  | Pahto <sup>™</sup> Brand HBC 682  | PAH  |
| Bullion                               | BUL  | Palisade <sup>®</sup> Brand YCR 4 | PAL  |
| Calypso <sup>™</sup>                  | CPO  | Pekko <sup>®</sup> , ADHA-871     | PEK  |
| Cascade                               | CAS  | Perle                             | PER  |
| Cashmere                              | CMR  | Saaz                              | SAZ  |
| Centennial                            | CEN  | Sabro <sup>™</sup> Brand HBC 438  | SAB  |
| Chelan                                | CHE  | Santiam                           | SNT  |
| Chinook                               | CHI  | Satus <sup>®</sup> , YCR 7        | SAT  |
| Citra <sup>®</sup> Brand HBC 394      | CIT  | Serebrianka                       | SEK  |
| Cluster                               | CLU  | Simcoe <sup>®</sup> Brand YCR 14  | SIM  |
| Columbia                              | CBA  | Sonnet <sup>™</sup>               | SON  |
| Columbus                              | CBS  | Sorachi Ace                       | SOR  |
| Comet                                 | COM  | Spalter                           | SPA  |
| Crystal                               | CRY  | Sterling                          | STR  |
| Delta <sup>™</sup>                    | DEL  | Strata <sup>™</sup> , OR91331     | STT  |
| 06277 (formerly Denali <sup>™</sup> ) | 277  | Strissel Spalt                    | FSP  |
| Ekuanot <sup>®</sup> Brand HBC 366    | EKU  | Summit <sup>™</sup>               | SUM  |
| El Dorado <sup>®</sup>                | ELD  | Super Galena <sup>™</sup>         | SGA  |
| Eroica                                | ERO  | Tahoma                            | TAH  |
| Eureka! <sup>™</sup>                  | EUE  | Talisman                          | TLN  |
| Experimental                          | EXP  | Teamaker                          | TMK  |
| Fuggle                                | FUG  | Tettnanger                        | TET  |
| Galena                                | GAL  | Tillicum                          | TIL  |
| Glacier                               | GLC  | Tomahawk <sup>®</sup> , F10       | TOM  |
| Golding                               | GOL  | Topaz                             | TOP  |
| Hallertauer Mittelfruher              | HAL  | TriplePearl                       | TRP  |
| Hallertauer Magnum                    | HMG  | Triumph                           | TRI  |
| Horizon                               | HOR  | Ultra                             | ULT  |
| Idaho7 <sup>™</sup>                   | ID7  | Vanguard                          | VAN  |
| Idaho Gem <sup>™</sup>                | IDG  | Warrior <sup>®</sup> Brand YCR 5  | WAR  |
| Jarrylo <sup>®</sup> , ADHA-881       | JAR  | Willamette                        | WIL  |
| Lemondrop <sup>™</sup>                | LDP  | Yakima Gold                       | YKG  |
| Liberty                               | LIB  | Zappa <sup>™</sup>                | ZAP  |
| Loral <sup>®</sup> Brand HBC 291      | LOR  | Zeus                              | ZEU  |
| Lotus <sup>™</sup>                    | LOT  |                                   |      |