

### NIAB COPYRIGHT CEREAL CROP INSPECTORS GUIDE TO BARLEY FIELD CHARACTERS 2022

| VARIETY and plant<br>height                     | Ear<br>glaucosity | Ear<br>density     | Ear<br>pigment                    | Rachilla<br>hair type | Sterile<br>spikelet<br>attitude | Spicules on<br>inner lateral<br>nerves | Ventral<br>furrow hair | First rachis<br>segment  | Collar                     | Aleurone<br>colour                  | Other<br>features   |
|---|-------------------|--------------------|-----------------------------------|-----------------------|---------------------------------|--|------------------------|--|----------------------------|-------------------------------------|---|
| SIX ROW VARIETIE                                | S                 |                    |                                   |                       | attituut                        | iici ves                               |                        |  |                            |                                     |   |
| BAZOOKA (HY)<br>(medium to long)<br>BELFRY (HY) | medium<br>weak to | medium             | very weak<br>to weak<br>absent or | long                  | n/a                             | strong<br>strong to very               | PRESENT                | length short to<br>medium;<br>curvature weak<br>short to medium; | platform<br>platform to    | weak blue                           | Hybrid  |
| (medium)  | medium            | medium             | very weak                         | long                  | n/a                             | strong                                 | PRESENT                | curvature weak   | shallow cup                | weak blue                           | Hybrid  |
| BELMONT (HY)<br>(medium)                        | medium            | medium             | mixed                             | long                  | n/a                             | strong to very<br>strong               | PRESENT                | medium length;<br>curvature weak                                 | platform to<br>shallow cup | 50:50 blue,<br>white<br>segregation | Hybrid 50:50<br>segregation for<br>pigment of<br>lemma nerves<br>and aleurone<br>colour |
| <b>FUNKY</b><br>(short)                         | strong            | dense              | absent to<br>very weak            | long                  | n/a                             | strong to very strong                  | PRESENT                | short;<br>curvature medium<br>to strong                          | decurrent to<br>platform   | white                               | ventral furrow<br>hair can be<br>difficult to see                                       |
| KWS ASTAIRE<br>(medium)                         | medium to strong  | medium             | absent to<br>very weak            | long                  | n/a                             | medium                                 | ABSENT                 | medium to long;<br>curvature medium<br>to strong                 | no data                    | blue                                |   |
| KWS FEERIS<br>(short to medium)                 | strong            | dense              | weak                              | long                  | n/a                             | strong to very<br>strong               | PRESENT                | short;<br>curvature weak   | decurrent to platform      | white                               |   |
| LIBRA<br>(medium to long)                       | medium            | medium             | weak to<br>medium                 | long                  | n/a                             | strong                                 | PRESENT                | medium;<br>curvature weak to<br>medium                           | decurrent to platform      | 50:50 blue,<br>white<br>segregation | Hybrid  |
| SY BARACOODA<br>(HY)<br>(long)                  | medium            | medium to<br>dense | medium                            | long                  | n/a                             | strong to very strong                  | PRESENT                | medium;<br>curvature medium                                      | decurrent                  | 50:50 blue,<br>white<br>segregation | Hybrid  |

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| VARIETY and plant | Ear        | Ear       | Ear       | Rachilla  | Sterile  | Spicules on    | Ventral     | First rachis      | Collar       | Aleurone    | Other    |
|-------------------|------------|-----------|-----------|-----------|----------|----------------|-------------|-------------------|--------------|-------------|----------|
| height            | glaucosity | density   | pigment   | hair type | spikelet | inner lateral  | furrow hair | segment           |              | colour      | features |
|                   |            |           |           |           | attitude | nerves         |             |                   |              |             |          |
|                   |            |           |           |           |          |                |             | medium;           |              |             |          |
| SY CANYON (HY)    |            | medium to | very weak |           |          | strong to very |             | curvature weak to | platform to  |             |          |
| (long)            | medium     | dense     | to weak   | long      | n/a      | strong         | PRESENT     | medium            | shallow cup  | white       | Hybrid   |
| SY KINGSBARN      |            |           |           |           |          |                |             |                   |              | 50:50 blue, |          |
| ( <b>HY</b> )     |            | medium to |           |           |          | strong to very |             | medium;           | decurrent to | white       |          |
| (medium to tall)  | medium     | dense     | weak      | long      | n/a      | strong         | PRESENT     | curvature medium  | platform     | segregation | Hybrid   |
|                   |            |           |           |           |          |                |             | short;            |              |             |          |
| SY KINGSTON (HY)  | weak to    |           |           |           |          | strong to very |             | curvature weak to |              |             |          |
| (medium to long)  | medium     | medium    | medium    | long      | n/a      | strong         | PRESENT     | medium            | shallow cup  | white       | Hybrid   |
| SY THUNDERBOLT    |            |           |           |           |          |                |             | medium;           |              |             |          |
| (HY)              |            |           | medium to |           |          | strong to very |             | curvature weak to |              |             |          |
| (medium to long)  | medium     | medium    | strong    | long      | n/a      | strong         | PRESENT     | medium            | no data      | white       | Hybrid   |

### TWO ROW WINTER VARIETIES

| BOLTON            |             | lax to      | absent to |      |           | absent or very |         | medium;           |                |       |            |
|-------------------|-------------|-------------|-----------|------|-----------|----------------|---------|-------------------|----------------|-------|------------|
| (very short)      | weak        | medium      | very weak | long | DEFICIENS | weak           | ABSENT  | curvature strong  | cup            | white |            |
| BORDEAUX          | medium to   |             |           |      |           | absent or very |         | medium; curvature |                |       |            |
| (medium)          | strong      | lax         | Strong    | long | DEFICIENS | weak           | PRESENT | strong            | cup            | white |            |
| CALIFORNIA        |             |             | absent to |      |           | absent to very |         | length long;      |                |       | Palea apex |
| (short to medium) | medium      | medium      | very weak | long | DEFICIENS | weak           | ABSENT  | curvature medium  | cup            | white | square     |
| CRAFT             |             |             |           |      |           |                |         | medium;           |                |       |            |
| (short)           | medium      | medium      | strong    | long | DEFICIENS | strong         | ABSENT  | curvature strong  | shallow cup    | white |            |
|                   |             |             |           |      |           |                |         | length medium;    |                |       |            |
| ELECTRUM          |             |             | weak to   |      |           |                |         | curvature medium  | platform to    |       |            |
| (short to medium) | medium      | medium      | medium    | long | DEFICIENS | strong         | ABSENT  | to strong         | shallow cup    | white |            |
|                   |             |             |           |      |           |                |         | medium;           |                |       |            |
| FAY               | medium to   | lax to      | weak to   |      |           | medium to      |         | curvature medium  | shallow cup to |       |            |
| (short)           | strong      | medium      | medium    | long | parallel  | strong         | ABSENT  | to strong         | cup            | white |            |
| JORDAN (sh        | ort weak to | very lax to | absent to |      |           | weak to        |         | medium to long;   |                |       |            |
| to medium)        | medium      | lax         | very weak | long | DEFICIENS | medium         | ABSENT  | curvature strong  | shallow cup    | white |            |

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| VARIETY and plant     | Ear        | Ear         | Ear       | Rachilla  | Sterile   | Spicules on    | Ventral     | First rachis        | Collar         | Aleurone | Other          |
|-----------------------|------------|-------------|-----------|-----------|-----------|----------------|-------------|---------------------|----------------|----------|----------------|
| height                | glaucosity | density     | pigment   | hair type | spikelet  | inner lateral  | furrow hair | segment             |                | colour   | features       |
|                       |            |             |           |           | attitude  | nerves         |             |                     |                |          |                |
|                       |            |             |           |           |           |                |             | length short;       |                |          |                |
| KWS CASSIA            | weak to    |             | absent to |           |           | absent to very |             | curvature weak to   | platform to    |          | short rachilla |
| (short to medium)     | medium     | lax         | very weak | long      | DEFICIENS | weak           | PRESENT     | medium              | shallow cup    | BLUE     | length         |
| KWS CRESWELL          |            |             | absent to |           |           | weak to        |             | medium to long;     |                |          |                |
| (short)               | weak       | lax         | very weak | long      | DEFICIENS | medium         | ABSENT      | curvature strong    | cup            | white    |                |
| KWS GIMLET            | weak to    | very lax to | absent to |           |           | very weak to   |             | long;               |                |          |                |
| (medium)              | medium     | lax         | very weak | long      | DEFICIENS | weak           | ABSENT      | curvature strong    | shallow cup    | white    |                |
| KWS GLACIER           | medium to  |             | absent to |           |           | absent to very |             | length medium;      | platform to    |          |                |
| (short to medium)     | strong     | lax         | very weak | long      | DEFICIENS | weak           | PRESENT     | curvature medium    | shallow cup    | BLUE     |                |
|                       |            |             |           |           |           |                |             | medium to long;     |                |          |                |
| KWS HAWKING           | weak to    |             | very weak |           |           | very weak to   |             | curvature medium    | shallow cup to |          |                |
| (short to medium)     | medium     | lax         | to weak   | long      | DEFICIENS | weak           | ABSENT      | to strong           | cup            | white    |                |
|                       |            |             |           |           |           |                |             |                     |                |          | Awn length     |
| KWS ORWELL            |            |             | absent or |           |           | absent to very |             | long;               | shallow cup to |          | shorter than   |
| (very short to short) | weak       | lax         | very weak | long      | DEFICIENS | weak           | ABSENT      | curvature medium    | cup            | white    | ear            |
|                       |            |             |           |           |           |                |             | medium;             |                |          |                |
| KWS PATRIOT (short    |            |             | very weak |           |           | very weak to   |             | curvature medium    |                |          |                |
| to medium)            | medium     | medium      | to weak   | long      | DEFICIENS | weak           | ABSENT      | to strong           | shallow cup    | white    |                |
|                       |            |             |           |           |           |                |             | medium;             |                |          |                |
| KWS TARDIS            |            | lax to      | absent to |           |           | strong to very |             | curvature medium    |                |          |                |
| (no height data)      | medium     | medium      | very weak | SHORT     | DEFICIENS | strong         | PRESENT     | to strong           | decurrent      | white    |                |
|                       |            |             |           |           |           |                |             |                     |                |          | Palea apex     |
| KWS TOWER             |            |             | absent to |           |           | weak to        |             | long;               | shallow cup to |          | clearly        |
| (short to medium)     | weak       | lax         | very weak | long      | DEFICIENS | medium         | ABSENT      | curvature strong    | cup            | white    | notched        |
|                       |            |             |           |           |           |                |             | medium to long;     |                |          | Awn length     |
|                       |            |             | absent to |           |           | absent or very |             | curvature strong to | shallow cup to |          | shorter than   |
| LG DAZZLE (short)     | medium     | lax         | very weak | long      | DEFICIENS | weak           | ABSENT      | very strong         | cup            | BLUE     | ear            |
|                       |            |             |           |           |           |                |             | medium to long;     |                |          |                |
| LG FLYNN              | weak to    |             | medium to |           |           |                |             | curvature medium    |                |          |                |
| (short to medium)     | medium     | lax         | strong    | long      | DEFICIENS | medium         | ABSENT      | to strong           | platform       | white    |                |



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| VARIETY and plant     | Ear        | Ear         | Ear         | Rachilla  | Sterile   | Spicules on    | Ventral     | First rachis                       | Collar       | Aleurone  | Other  |
|-----------------------|------------|-------------|-------------|-----------|-----------|----------------|-------------|------------------------------------|--------------|-----------|--|
| height                | glaucosity | density     | pigment     | hair type | spikelet  | inner lateral  | furrow hair | segment                            |              | colour    | features                                     |
|                       |            |             |             |           | attitude  | nerves         |             |                                    |              |           |  |
|                       |            |             |             |           |           |                |             | medium;                            |              |           |  |
| LG MOUNTAIN           |            |             | absent to   |           |           | very weak to   |             | curvature medium                   | decurrent to |           |  |
| (short)               | medium     | medium      | very weak   | long      | DEFICIENS | weak           | PRESENT     | to strong                          | platform     | BLUE      |  |
| LIGHTNING (short      | weak to    | very lax to | absent to   |           |           | very weak to   |             | medium;                            | platform to  |           | Awn length shorter than                      |
| to medium)            | medium     | lax         | very weak   | long      | DEFICIENS | weak           | ABSENT      | curvature strong                   | shallow cup  | white     | ear  |
| SURGE                 |            |             | absent or   |           |           | very weak to   |             | medium;                            |              |           | Palea apex                                   |
| (very short to short) | weak       | lax         | very weak   | long      | DEFICIENS | weak           | ABSENT      | curvature strong                   | platform     | weak blue | pointed                                      |
| SY VENTURE            |            |             |             |           |           |                |             | length medium;<br>curvature medium |              |           | Bent back' first                             |
| (short)               | medium     | medium      | very strong | long      | DEFICIENS | strong         | ABSENT      | to strong                          | shallow cup  | white     | rachis.                                      |
|                       |            |             |             |           |           |                |             | medium;                            |              |           | Sterile<br>spikelets can<br>look parallel to |
| VALERIE               |            |             | absent to   |           |           | absent or very |             | curvature medium                   | platform to  |           | weakly                                       |
| (short to medium)     | medium     | medium      | very weak   | long      | parallel  | weak           | ABSENT      | to strong                          | shallow cup  | white     | divergent                                    |

### TWO ROW SPRING VARIETIES

| CADIZ            | medium to | lax to |           |       |           | absent or very |        | medium to long;     | platform to |           |
|------------------|-----------|--------|-----------|-------|-----------|----------------|--------|---------------------|-------------|-----------|
| (long)           | strong    | medium | medium    | SHORT | DEFICIENS | weak           | ABSENT | curvature weak      | shallow cup | white     |
|                  |           |        |           |       |           |                |        |                     |             |           |
| CB SCORE         |           |        |           |       |           | absent to very |        | medium;             | platform to |           |
| (medium to long) | medium    | lax    | strong    | SHORT | DEFICIENS | weak           | ABSENT | curvature very weak | shallow cup | white     |
| CONCERTO         |           |        | very weak |       |           | very weak to   |        | length medium;      | platform to |           |
| (short)          | medium    | medium | to weak   | SHORT | divergent | weak           | ABSENT | curvature medium    | shallow cup | weak blue |
| COSMOPOLITAN     | medium to |        | medium to |       |           | absent to very |        | short to medium;    |             |           |
| (no height data) | strong    | medium | strong    | long  | DEFICIENS | weak           | ABSENT | curvature medium    | cup collar  | white     |
|                  |           |        |           |       |           |                |        | medium to long;     |             |           |
|                  |           |        | medium to |       |           | absent to very |        | curvature medium    |             |           |
| FAIRING (short)  | medium    | lax    | strong    | long  | divergent | weak           | ABSENT | to strong           | platform    | white     |



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| VARIETY and            | l plant | Ear                 | Ear         | Ear       | Rachilla  | Sterile     | Spicules on            | Ventral     | First rachis                      | Collar                     | Aleurone | Other         |
|------------------------|---------|---------------------|-------------|-----------|-----------|-------------|------------------------|-------------|-----------------------------------|----------------------------|----------|---------------|
| height                 |         | glaucosity          | density     | pigment   | hair type | spikelet    | inner lateral          | furrow hair | segment                           |                            | colour   | features      |
|                        |         |                     |             |           |           | attitude    | nerves                 |             |                                   |                            |          |               |
| FAIRWAY                |         | medium to           | lax to      |           |           |             | absent or very         |             | medium;                           |                            |          |               |
| (medium)               |         | strong              | medium      | strong    | SHORT     | DEFICIENS   | weak                   | ABSENT      | curvature medium                  | shallow cup                | white    |               |
|                        |         |                     |             |           |           |             |                        |             | long;                             |                            |          |               |
| FIREFOXX               |         | medium to           | very lax to | weak to   |           |             | absent or very         |             | curvature medium                  | platform to                |          |               |
| (medium to long        | g)      | strong              | lax         | medium    | SHORT     | DEFICIENS   | weak                   | ABSENT      | to strong                         | shallow cup                | white    |               |
|                        |         |                     |             |           |           |             |                        |             | short to medium;                  |                            |          |               |
| HACKER                 |         |                     |             |           |           |             | absent to very         |             | curvature weak to                 |                            |          |               |
| (short to mediur       | n)      | medium              | medium      | medium    | SHORT     | divergent   | weak                   | ABSENT      |                                   | cup collar                 | white    |               |
|                        |         |                     |             |           |           |             |                        |             | short to medium;                  |                            |          |               |
|                        |         | medium to           | lax to      | weak to   |           |             | absent or very         |             | curvature medium                  |                            |          |               |
| ICONIC                 | (long)  | strong              | medium      | medium    | SHORT     | DEFICIENS   | weak                   | ABSENT      | to strong                         | platform                   | white    |               |
| JENSEN                 | (short  |                     | medium to   |           |           |             | absent or very         |             | longi                             | platform to                |          |               |
| to medium)             | `       | medium              |             | medium    | SHORT     | DEFICIENS   | weak                   | ABSENT      | long;<br>curvature very weak      | 1                          | white    |               |
| KWS SASSY              |         |                     | uense       |           | SHOKI     | DEFICIENS   |                        | ADSENI      | 2                                 |                            | winte    |               |
|                        | (snort  | medium to           |             | very weak | 1         | dimonoon4   | absent to very         | ADGENIT     | short to medium;                  | platform to                |          |               |
| to medium)<br>LAUREATE |         | strong<br>medium to | medium      | to weak   | long      | divergent   | weak<br>absent to very | ABSENT      | curvature weak<br>medium to long; | shallow cup<br>platform to | white    | long rachilla |
|                        |         |                     |             |           | SHORT     | DEFICIENS   | -                      | ABSENT      | curvature medium                  | ^                          |          | -             |
| (short)                |         | strong              | medium      | medium    | SHOKI     | DEFICIENS   | weak                   | ADSENI      | length medium;                    | shallow cup                | white    | length        |
| LG DIABLO              |         | medium to           | lax to      | weak to   |           |             | absent to very         |             | curvature weak to                 | platform to                |          |               |
| (medium)               |         | strong              | medium      | medium    | SHORT     | DEFICIENS   | weak                   | ABSENT      | medium                            | shallow cup                | white    |               |
| MALVERN                |         | suong               | meann       | weak to   | SHOKI     | DEFICIENS   | absent or verv         |             | medium:                           | shanow cup                 | winte    |               |
| (medium)               |         | medium              | medium      | medium    | long      | DEFICIENS   | weak                   | ABSENT      | curvature weak                    | shallow cup                | white    |               |
| (incutatil)            |         | meurum              | mearann     | meanan    | iong      | DEFICIENTS  | weak                   | TIDDEI (1   | length short to                   | shanow cup                 | winte    |               |
| PROPINO                |         | weak to             |             |           |           |             | absent to very         |             | medium;                           |                            |          |               |
| (medium)               |         | medium              | medium      | medium    | SHORT     | divergent   | weak                   | ABSENT      | curvature weak                    | platform                   | white    |               |
| (meanin)               |         | mourum              | moutum      | mourum    |           | ar, er gent | meun                   |             | short;                            | Platform                   | winte    |               |
| PROSPECT               |         |                     |             |           |           |             | absent or very         |             | curvature weak to                 |                            |          |               |
| (medium)               |         | strong              | medium      | medium    | SHORT     | DEFICIENS   | weak                   | ABSENT      |                                   | platform                   | white    |               |



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|-------------------|------------|-------------|-----------|-----------|-----------|----------------|-------------|------------------|-------------|----------|------------------|
| height            | glaucosity | density     | pigment   | hair type | spikelet  | inner lateral  | furrow hair | segment          |             | colour   | features         |
|                   |            |             |           |           | attitude  | nerves         |             |                  |             |          |                  |
|                   |            |             |           |           |           |                |             | length medium to |             |          |                  |
| RGT ASTEROID      | medium to  | lax to      | medium to |           |           | absent to very |             | long; curvature  | platform to |          |                  |
| (medium to long)  | strong     | medium      | strong    | SHORT     | DEFICIENS | weak           | ABSENT      | weak             | shallow cup | white    |                  |
|                   |            |             |           |           |           |                |             | length short to  |             |          |                  |
| RGT PLANET        | medium to  | lax to      |           |           |           | absent to very |             | medium;          |             |          | Bent back' first |
| (medium)          | strong     | medium      | strong    | SHORT     | DEFICIENS | weak           | ABSENT      | curvature weak   | no data     | white    | rachis           |
| SIENNA            |            |             |           |           |           | absent to very |             | length medium;   | platform to |          |                  |
| (short to medium) | medium     | medium      | weak      | SHORT     | divergent | weak           | ABSENT      | curvature weak   | shallow cup | white    |                  |
| SKYWAY            | medium to  |             | weak to   |           |           | absent or very |             | medium;          |             |          |                  |
| (medium to long)  | strong     | lax         | medium    | SHORT     | DEFICIENS | weak           | ABSENT      | curvature medium | no data     | white    |                  |
|                   |            |             |           |           |           |                |             | medium;          |             |          |                  |
|                   |            | medium to   |           |           |           | absent or very |             | curvature medium | platform to |          |                  |
| SPINNER (medium)  | medium     | dense       | strong    | SHORT     | DEFICIENS | weak           | ABSENT      | to strong        | shallow cup | white    |                  |
| SY SPLENDOR       | medium to  |             |           |           |           | absent or very |             | medium to long;  | platform to |          |                  |
| (medium)          | strong     | lax         | medium    | SHORT     | DEFICIENS | weak           | ABSENT      | curvature medium | shallow cup | white    |                  |
| SY TUNGSTEN       |            | very lax to |           |           |           | absent or very |             | medium to long;  |             |          |                  |
| (medium)          | strong     | lax         | medium    | long      | DEFICIENS | weak           | ABSENT      | curvature medium | platform    | white    |                  |

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