



NIAB COPYRIGHT

2025 OATS

CEREAL CROP INSPECTORS GUIDE TO OAT FIELD CHARACTERS 2025

| VARIETY and plant height | Lower leaf sheath hairs | Leaf margin hairs | Upper culm node hair | Three grained spikelets+ | Glume glaucosity | Primary grain |                  |                   | Other features |
|--------------------------|-------------------------|-------------------|----------------------|--------------------------|------------------|---------------|------------------|-------------------|----------------|
|                          |                         |                   |                      |                          |                  | Awns+         | Lemma glaucosity | Basal Grain hairs |                |

WINTER OATS

HUSKLESS (Naked)

|                                     |                     |                     |                          |   |                     |                     |     |  |
|-------------------------------------|---------------------|---------------------|--------------------------|---|---------------------|---------------------|-----|--|
| <b>AVALON</b><br>(medium to long)   | absent or very weak | medium to strong    | medium                   | 5-6 grains per spikelet typical (occ. More) | weak to medium      | weak to medium      | n/a | lemma and palea resemble glumes in being soft and papery; kernel (caryopsis) threshes free of lemma and palea at maturity                        |
| <b>FUSION</b><br>(short)            | medium              | medium              | absent                   | 5-6 grains per spikelet typical (occ. More) | absent to very weak | absent or very weak | n/a | lemma and palea resemble glumes in being soft and papery; kernel (caryopsis) threshes free of lemma and palea at maturity; <b>rachilla long,</b> |
| <b>GRAFTON</b><br>(short to medium) | medium              | medium              | absent                   | 5-6 grains per spikelet typical (occ. More) | very weak           | weak                | n/a | lemma and palea resemble glumes in being soft and papery; kernel (caryopsis) threshes free of lemma and palea at maturity; <b>rachilla short</b> |
| <b>PELTON</b><br>(medium)           | medium              | absent to very weak | <b>Present</b><br>medium | 5-6 grains per spikelet typical (occ. More) | weak to medium      | weak to medium      | n/a | lemma and palea resemble glumes in being soft and papery; kernel (caryopsis) threshes free of lemma and palea at maturity; <b>rachilla short</b> |



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|                          |                         |                   |                      |                          |                  | Awns+         | Lemma glaucosity | Basal Grain hairs |                |

WINTER OATS

HUSKED

|  |                     |                   |                                    |                    |                     |                         |                     |   |  |
|--|---------------------|-------------------|------------------------------------|--------------------|---------------------|-------------------------|---------------------|---|--|
| <b>CROMWELL</b><br>(very short to short) | weak                | weak              | <b>Present</b><br>weak             | No data            | weak                | very weak to weak       | absent or very weak | very weak to weak; short length                           |  |
| <b>DALGUISE</b><br>(medium)              | weak to medium      | weak to medium    | absent                             | absent to few      | medium to strong    | weak                    | absent or very weak | 4-6 per side; short length                                |  |
| <b>GERALD</b><br>(short to medium)       | medium              | strong            | absent                             | absent to very few | absent or very weak | weak                    | absent              | 4-6 per side; short-medium length                         | late to very late panicle emergence; panicle usually medium to large |
| <b>GRIFFIN</b><br>(medium to tall)       | very weak           | very weak to weak | <b>Present</b><br>medium to strong | absent to rare     | weak to medium      | absent to very weak     | absent or very weak | If present 1-3 per side; (variable) medium to long length | YELLOW GRAIN.  |
| <b>KWS PERTINENT</b><br>(medium to long) | absent or very weak | weak to medium    | <b>Present</b><br>medium           | No data            | medium              | medium                  | very weak           | absent or weak; short to medium length                    |  |
| <b>MASCANI</b><br>(medium)               | weak                | weak              | <b>Present</b><br>medium           | absent or very few | weak to medium      | weak                    | absent or very weak | absent  | YELLOW GRAIN.  |
| <b>PENROSE</b><br>(tall)                 | strong              | weak to medium    | <b>Present</b><br>medium           | rare to occasional | weak                | occasional to few; weak | weak                | absent or very weak                                       |  |
| <b>RANNOCH</b><br>(medium to long)       | medium              | weak to medium    | <b>Present</b><br>medium to strong | no data            | weak to medium      | absent to weak          | absent or very weak | absent or weak, medium length                             | YELLOW GRAIN.  |
| <b>RGT DEMPSEY</b><br>(medium to long)   | absent or very weak | weak to medium    | <b>Present</b><br>weak to medium   | No data            | medium              | absent to weak          | very weak           | medium; medium length                                     |  |



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|---|-------------------------|---------------------|------------------------------------|--------------------------|------------------|-------------------|---------------------|-------------------------------|--|
|   |                         |                     |                                    |                          |                  | Awns+             | Lemma glaucosity    | Basal Grain hairs             |  |
| <b>RGT LINEOUT</b><br>(short to medium) | strong                  | absent or very weak | absent                             | absent to rare           | medium to strong | weak to medium    | absent or very weak | medium length                 | early to medium panicle emergence  |
| <b>RGT SOUTHWARK</b><br>(medium)        | weak                    | very weak to weak   | <b>Present</b><br>weak             | absent to rare           | weak to medium   | weak              | absent or very weak | medium length                 |  |
| <b>VALENTINE</b><br>(medium to long)    | weak                    | weak to medium      | <b>Present</b><br>medium to strong | No data                  | strong           | very weak to weak | weak to medium      | strong; medium to long length | Upper culm node hair<br>medium to strong, white grain medium length rachilla |



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|--------------------------|-------------------------|-------------------|----------------------|--------------------------|------------------|---------------|------------------|-------------------|----------------|
|                          |                         |                   |                      |                          |                  | Awns+         | Lemma glaucosity | Basal Grain hairs |                |

SPRING OATS

HUSKLESS (Naked)

|                                    |                     |                     |        |          |                |                     |     |   |
|------------------------------------|---------------------|---------------------|--------|----------|----------------|---------------------|-----|---|
| <b>KAMIL</b><br>(no data)          | absent or very weak | absent or very weak | absent | numerous | medium         | No data             | n/a | lemma and palea resemble glumes in being soft and papery; kernel (caryopsis) threshes free of lemma and palea at maturity |
| <b>LENNON</b><br>(short to medium) | absent              | very weak to weak   | absent | numerous | weak to medium | absent to very weak | n/a |   |
| <b>OLIVER</b><br>(medium)          | absent or very weak | absent or very weak | absent | numerous | No data        | absent to very weak | n/a |   |
| <b>OVATION</b><br>(medium to long) | medium to strong    | medium              | absent | numerous | weak to medium | absent or very weak | n/a |   |



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|--------------------------|-------------------------|-------------------|----------------------|--------------------------|------------------|---------------|------------------|-------------------|----------------|
|                          |                         |                   |                      |                          |                  | Awns+         | Lemma glaucosity | Basal Grain hairs |                |

SPRING OATS

HUSKED

|                                     |                     |                     |                     |                  |                     |                     |                     |   |                                   |
|-------------------------------------|---------------------|---------------------|---------------------|------------------|---------------------|---------------------|---------------------|---|-----------------------------------|
| <b>ASPEN</b><br>(short to medium)   | absent              | absent to very weak | absent              | occasional       | medium              | very weak           | absent or very weak | medium length                           | YELLOW GRAIN. glume length medium |
| <b>ASTERION</b><br>(medium to long) | absent to weak      | absent or very weak | absent or very weak | No data          | medium to strong    | weak to medium      | weak                | weak to medium; short to medium length  | Medium length rachilla            |
| <b>CALEDON</b><br>(long)            | absent to very weak | absent to very weak | absent or very weak | No data          | strong              | absent to low       | medium to strong    | absent or weak; short to medium length  | Yellow grain                      |
| <b>CANYON</b><br>(medium to tall)   | absent              | absent to very weak | absent              | rare, occasional | weak                | absent or very weak | very weak           | short length                            | YELLOW GRAIN. glume length medium |
| <b>CONWAY</b><br>(medium)           | weak                | medium              | absent              | occasional       | weak to medium      | weak to medium      | absent or very weak | absent to very weak; medium length      |                                   |
| <b>DELFIN</b><br>(no data)          | absent or very weak | absent or very weak | absent              | rare, occasional | No data             | absent or very weak | very weak to weak   | weak; short to medium length            | YELLOW GRAIN                      |
| <b>ELISON</b><br>(medium)           | absent              | absent to very weak | absent              | rare, occasional | absent or very weak | absent or very weak | absent or very weak | very weak to weak; very to short length | YELLOW GRAIN                      |
| <b>FIRTH</b><br>(medium to long)    | weak                | very weak to weak   | absent              | absent to few    | weak to medium      | absent or very weak | absent              | short length                            |                                   |
| <b>JACKY</b><br>(long to very long) | absent or very weak | absent or very weak | absent or very weak | no data          | medium to strong    | absent to weak      | medium              | weak to medium; short to medium length  |                                   |



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|--|-------------------------|---------------------|------------------------------------|--------------------------|------------------|---------------------------------|---------------------|---|----------------|
|  |                         |                     |                                    |                          |                  | Awns+                           | Lemma glaucosity    | Basal Grain hairs                                     |                |
| <b>KWS VIBRANT</b><br>(medium)         | absent or very weak     | absent or very weak | absent or very weak                | no data                  | medium           | absent to weak                  | absent to very weak | absent to weak; short to medium length                |                |
| <b>LION</b><br>(medium to long)        | absent or very weak     | absent or very weak | absent                             | No data                  | strong           | very weak to weak               | weak                | very short length                                     |                |
| <b>MERLIN</b><br>(short to medium)     | absent                  | absent to very weak | absent                             | No data                  | medium to strong | weak                            | weak                | very weak to weak; short to medium length             |                |
| <b>NEPTUN</b><br>(long to very long)   | absent or very weak     | absent or very weak | absent or very weak                | no data                  | medium           | absent to very weak             | medium              | absent to very weak; short to medium length           |                |
| <b>NOVA</b><br>(long to very long)     | absent or very weak     | absent or very weak | <b>Present</b><br>medium to strong | no data                  | weak             | absent to weak                  | absent to very weak | absent to weak  |                |
| <b>RGT VAUGHAN</b><br>(medium to long) | weak                    | weak to medium      | absent                             | No data                  | very weak        | absent or very weak             | absent or very weak | weak to medium; medium length                         |                |
| <b>WPB ELYANN</b><br>(short to medium) | absent                  | absent to very weak | absent                             | rare, occasional         | weak             | absent or very weak             | weak to medium      | medium length   |                |
| <b>WPB ISABEL</b><br>(tall)            | weak                    | weak                | absent                             | rare, occasional         | weak             | absent or very weak             | short to medium     | absent to rare, if present 1-2 per side; short length |                |
| <b>YUKON</b><br>(medium to tall)       | absent or very weak     | absent to very weak | absent                             | occasional to numerous   | strong           | rare to occasional; weak to med | absent or very weak | absent or very weak; short length                     | YELLOW GRAIN   |

† The presence of three grained spikelets and awns is dependent on the growing season

NOTE: the following characters are often shown by SPRING varieties; Spikelets often three-grained - in apex at least, basal hair often sparse