



Plants  
Agroscope technical sheets | N°42 / 2016  
Varietal sheet | Oat

# Nelson

*Avena sativa* L.

Country of origin: Germany

## Passport

**Variety name:** Nelson  
**Variety status:** Advanced cultivar  
**Region:**  
**Accession number:** AV0013  
**Accession name:** Nelson  
**Acquisition date:** 2013  
**Donor name:**  
Nordsaat Saatzuchtgesellschaft  
mbH Saatzucht Langenstein  
**Donor number:**  
**Remarks:** Gelbhafer



## Physiologic characterization

*Evaluation:* Agroscope Charline Daujat 2015  
Prangins CH: Rives (380m) 462339N/0061456E

**Type:** Spring  
**Precocity:** 141  
**Lodging:** Low  
**Height:** 115cm  
**TKW:** 30.05

## Technologic values

*Analyzes:* Agroscope Charline Daujat/Charlotte Martin 2016  
Prangins CH: Rives (380m) 462339N/0061456E

**Protein content:** 12.59%  
**Test weight (kg/hl):** 59.57  
**Grain length/width (mm):** 11.4/2.73  
**Percentage of husk:**  
**βglucan content:**  
**Mycotoxin content:**

## Diseases sensitivity

*Notations:*

**Puccinia coronata:**

**Puccinia graminis:**

## Particular remarks

Awn black at the base  
Wound leaves



## Morphologic characterization<sup>1</sup>

Description: Agroscope Charline Daujat 2015

Prangins CH: Rives (380m) 462339N/0061456E

### Vegetative

| Code    | Descriptors                    | Comments   | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---------|--------------------------------|--|---|---|---|---|---|---|---|---|---|---|
| 4.1.6.  | Stem thickness                 | relative to reference varieties <sup>2</sup>                     |   |   |   |   |   | X |   |   |   |   |
| 4.1.7.  | Nodes hairiness                |  | X |   |   |   |   |   |   |   |   |   |
| 4.1.8.  | Angle of flag leaf to culm     |  |   |   |   |   | X |   |   |   |   |   |
| 4.1.9.  | Rigidity of flag leaf          |  |   |   |   |   |   | X |   |   |   |   |
| 4.1.10. | Angle to culm of leaves        | other than flag leaf   |   |   | X |   |   |   |   |   |   |   |
| 4.1.11. | Rigidity of leaves             | other than flag leaf   |   |   |   |   |   | X |   |   |   |   |
| 4.1.12. | Hairiness of leaf sheath       | lower leaves   | X |   |   |   |   |   |   |   |   |   |
| 4.1.13. | Hairiness of leaf margin       | leaf below flag leaf   | X |   |   |   |   |   |   |   |   |   |
| 6.1.1.  | Length of second leaf from top | relative to reference varieties <sup>2</sup>                     |   |   |   |   |   |   |   |   |   |   |
| 6.1.2.  | Width of second leaf from top  | at widest point and relative to reference varieties <sup>2</sup> |   |   |   |   |   |   |   |   | X |   |
| 6.1.3.  | Number of tillers              | relative to reference varieties <sup>2</sup>                     |   |   |   |   |   |   |   |   |   |   |
| 6.1.4.  | Number of fertile tillers      | relative to reference varieties <sup>2</sup>                     |   |   |   |   |   | X |   |   |   |   |
| 6.1.5.  | Lodging at immature stage      |  |   |   |   | X |   |   |   |   |   |   |
| 6.1.6.  | Lodging at mature stage        |  |   |   |   | X |   |   |   |   |   |   |

### Inflorescence, fruit and grain

| Code   | Descriptors                                  | Comments                                     | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|--------|--|--|---|---|---|---|---|---|---|---|---|---|
| 4.2.3. | Angle of panicle branches to main axis       |  |   |   |   |   | X |   |   |   |   |   |
| 4.2.4. | Erectness of spikelets                       |  |   |   |   | X |   |   |   |   |   |   |
| 6.2.3. | Maturity and Straw                           | Relation between maturity of grain and straw |   |   |   | X |   |   |   |   |   |   |
| 4.3.2. | Hairiness of lemma                           |  |   |   |   |   |   | X |   |   |   |   |
| 4.3.8. | Hairiness at basal part of the primary grain |  |   |   |   | X |   |   |   |   |   |   |
| 6.3.1. | Grain shedding at maturity                   | cultivated forms                             |   |   |   |   |   | X |   |   |   |   |
| 4.3.4. | Awedness                                     | recorded on basal floret                     |   | X |   |   |   |   |   |   |   |   |



Spikelet color<sup>3</sup>



Leaf color<sup>3</sup>



Straw color<sup>3</sup>

Shape of panicle: Equilateral

Waxiness of the panicle: No

Number of seeds in panicle: 76

Number of grains in spikelet: 2

Kernel covering: Yes

Lemma color: Yellow

Awn type: Geniculate

Position of awn insertion: ½ from base

#### Impressum

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<sup>1</sup> Descriptors from IBPGR document "Oat descriptors", Rome 1985.

<sup>2</sup> Reference varieties: Expander, Ebène and Triton.

<sup>3</sup> Scale from "Kriterien der Getreidearten einschließlich Mais und ihre Bewertung zur Sortenidentifizierung", Dr. R. Milatz, 1970.