

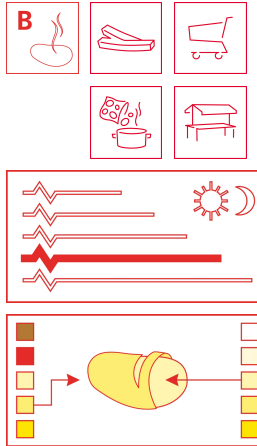
# CHALLENGER

AZIZA X VICTORIA



## Production advice ware potatoes FRENCH FRIES

- \* **High yield**
- \* **Broad adaptation**
- \* **Multi-purpose variety**
- \* **Good resistance to common scab**
- \* **Good storability**



### Characteristics

|                           |                         |
|---------------------------|-------------------------|
| Cooking type              | B - Slightly mealy      |
| Maturity                  | 57 Medium late          |
| Yield mature              | 107 High                |
| Tuber size                | 78 Medium               |
| Tuber shape               | Oval / Long oval        |
| Number of tubers          | 15-17                   |
| Flesh after cooking       | Light yellow            |
| Skin colour               | Yellow                  |
| Berries                   | Few berries             |
| Dormancy period           | 70 Long                 |
| Emergence                 | 64 Slow                 |
| Metribuzin sensitivity    | 83 Moderately sensitive |
| Foliage development       | 75 Strong               |
| Internal bruising         | 15 Quite sensitive      |
| Little Potato disorder    | 78 Little sensitive     |
| Dry matter content/Starch | 22,1% / 16,2%           |
| UWW / Specific gravity    | 408 / 1,088             |
| Spraing                   | 55 Susceptible          |
| Foliage Blight            | 48 Susceptible          |
| Tuber Blight              | 79 Moderate resistant   |
| Alternaria                | 75 Moderate resistant   |
| Common scab               | 70 Moderate resistant   |
| Powdery scab              | 59 Slightly susceptible |
| PVY                       | 19 Very susceptible     |
| Yntn tuber tolerance      | 98 Tolerant             |

|                |       |          |          |          |          |
|----------------|-------|----------|----------|----------|----------|
| PCN Resistance | Type  | Ro1      | Ro2/3    | Pa2      | Pa3      |
|                | Value | <u>1</u> | <u>1</u> | <u>1</u> | <u>1</u> |
| Wart disease   | Fysio | F1       | F2       | F6       | F18      |
|                | Value | 9        | <u>2</u> | <u>2</u> | <u>1</u> |

*Italic: own analysis/no official analysis*

### Plant populations

| Seed size              | Plant population/ha | Row distance |       |
|------------------------|---------------------|--------------|-------|
|                        |                     | 75 cm        | 90 cm |
| - 28/35                | 40.000              | 33           | 28    |
| - 35/45                | 36.000              | 37           | 31    |
| - 35/50                | 32.000              | 42           | 35    |
| - 45/50                | 32.000              | 42           | 35    |
| - 50/60 cut seed       | 34.000              | 39           | 33    |
| - Plant depth: normal. |                     |              |       |

### Fertilizer

- Adapt fertilization to soil analysis.
- Nitrogen (N): 100% in comparison to other medium late varieties. (indication 250 kg N inclusive of soil supply).
- Apply 2/3 before planting and 1/3 as top dressing.
- Phosphate fertilization according to standard advice.
- To prevent bruising, use fresh Potassium.

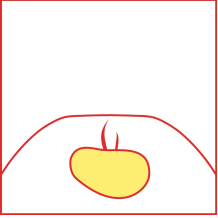
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### Pre-treatment and planting



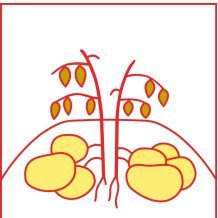
- CHALLENGER has a long dormancy.
- Allow the seed to acclimatize to the local conditions before planting.
- Do not store the seed potatoes lower than 5°C. Warm them up sufficiently before planting.
- Always treat CHALLENGER seeds and soil against Rhizoctonia.
- On light soils with free living nematodes there is a higher risk of spraing. Apply a nematicide on these soils.
- Planting with small white sprouts produces the best results.
- Do not plant in cold soils as this will increase the risk of irregular emergence.
- Wider planting is advised to get bigger size tubers.

### Growing attention points



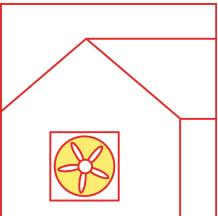
- CHALLENGER has a slow emergence but foliage develops strongly at a later stage.
- CHALLENGER has a good tolerance to metribuzin (Sencor).
- CHALLENGER has a good drought tolerance.
- CHALLENGER is susceptible to Alternaria. Start treatments at flowering time.
- Preventive spraying against Phytophthora is advised.

### Haulm killing and harvest



- Ensure the crop is naturally mature before haulm killing.
- When temperatures are above 25°C; harvest early in the morning / by night is preferred.
- CHALLENGER is moderately susceptible to bruising. Reduce drop heights and avoid mechanical damage.
- Harvest CHALLENGER with care, at higher dry matters it can be sensitive to bruising.

### Storage



- Take care of the wound healing period.
- Store at a stable 8 °C.
- Ventilate regularly, but briefly, to prevent CO2 accumulation.
- For long term storage it is necessary to use sprout inhibitors.