

CHALLENGER

AZIZA X VICTORIA

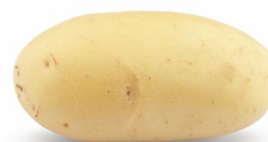


HZPC
keeps you growing



Production advice ware potatoes FRENCH FRIES

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



Agronomic characters

| | | |
|---------------------------|-----|--------------------|
| Maturity | 56 | Medium late |
| Dormancy | 70 | Long |
| Yield mature | 107 | High |
| Tuber size | 78 | Medium |
| Tuber shape | | Oval / Long oval |
| Number of tubers | | 15-17 |
| Skin colour | | Yellow |
| Flesh after cooking | | Light yellow |
| Cooking type | | B - Slightly mealy |
| Dry matter content/Starch | | 22,1% / 16,2% |
| UWW/Specific gravity | | 408 / 1,088 |
| Internal bruising | 15 | Quite sensitive |
| Metribuzin sensitivity | 84 | ●●●●●●●●●● |
| Little Potato disorder | 78 | ●●●●●●●●●● |



Skin and flesh colour



Cooking type



Maturity

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.

Always check the tuber count for an accurate calculation.

Resistances

| | | |
|----------------------|----|------------|
| Foliage Blight | 44 | ●●●●●●●●●● |
| Tuber Blight | 79 | ●●●●●●●●●● |
| Alternaria | 78 | ●●●●●●●●●● |
| Common scab | 70 | ●●●●●●●●●● |
| Powdery scab | 59 | ●●●●●●●●●● |
| Spraing | 55 | ●●●●●●●●●● |
| PVY | 22 | ●●●●●●●●●● |
| Yntn tuber tolerance | 98 | ●●●●●●●●●● |

PCN Resistance

| | |
|----------|------------|
| Ro1/4 *1 | ●●●●●●●●●● |
| Ro2/3 *1 | ●●●●●●●●●● |
| Pa2 *1 | ●●●●●●●●●● |
| Pa3 *1 | ●●●●●●●●●● |

Wart disease

| | |
|--------|------------|
| F1 10 | ●●●●●●●●●● |
| F2 *2 | ●●●●●●●●●● |
| F6 *2 | ●●●●●●●●●● |
| F18 *1 | ●●●●●●●●●● |

* HZPC own analysis/no official analysis

Fertilizer

- Adapt fertilization to soil analysis.
- Apply 2/3 before planting and 1/3 as top dressing.
- Nitrogen (N): 90% in comparison to other medium late varieties.
- A potassium (chloride) application just before flowering reduces the bruising sensitivity.
- Phosphate fertilization according to standard advice.

CHALLENGER

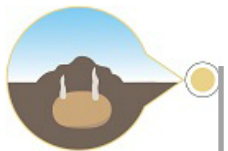
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Pre-treatment and planting

- 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.



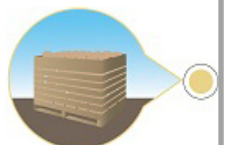
Growing attention points

- CHALLENGER has a slow emergence but foliage develops strongly at a later stage.
- CHALLENGER has a good tolerance to metribuzin.
- 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.