



GrowerFacts Extra  
Asparagus FuzzyFern™ Frizz

Additional Culture Research

from

PanAmerican Seed®

# Asparagus FuzzyFern™ Frizz

Germination Research Presented, published 2022

PanAmericanSeed.

## ANNUALS

- Large size of seed.
- Dark required for germination.  
Recommended to dibble and bury seed into media.
- High temperatures of 78-80°F (26-27°C) and high humidity (60-80% RH) will help with quicker and more uniform germination.
- Seeds take about 15 days to germinate under 79°F /26°C.

Lot	Treatment	Avg. % Germinated D21	Avg. % Germinated D35
Lot 1	Light	34 <sup>a*</sup>	77 <sup>a</sup>
	Dark	98 <sup>b</sup>	99 <sup>b</sup>
Lot 2	Light	40 <sup>a</sup>	83 <sup>a</sup>
	Dark	96 <sup>b</sup>	95 <sup>b</sup>

\*Superscripts with different letters are significantly different at P = 0.05

Germination was significantly higher in dark than light



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Improvement of Seed Quality, published 2022

PanAmericanSeed.

## ANNUALS

- New seed germination rate increased approximately 10%
- New seed germinated more uniformly and vigorously

288-cell (1 spc)	Germination rate (%)		
	24 D	31 D	Yield % at 38 D
Old seed	80	86	88
New seed	93	97	98



288-cell with 1 seed per cell (spc) 5 weeks after sowing

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Seeds Per Cell Research Presented, published 2022

PanAmericanSeed.

## ANNUALS

Seedlings 7 weeks after sowing

288 with 1 spc and 128 with 3 spc were ready for transplanting. Others took more time to finish.



288 1 spc

128 1 spc

128 3 spc

72 1 spc

72 3 spc

# Asparagus FuzzyFern™ Frizz

Plug Crop Timing Research Presented, published 2022

PanAmericanSeed.

## ANNUALS

Plug Crop Times under ADT about 70°F/21°C

Plug size	Seed per cell (spc)	Plug time (weeks)
288-cell	1 spc	7-8
128-cell	1 spc	8-9
128-cell	3 spc	7-8 (recommended)
72-cell	1 spc	Not recommended
72-cell	3 spc	8-9

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Plug Production Research Presented, published 2022

PanAmericanSeed.

## ANNUALS

- There are some swollen roots (nodules) at intervals which can store food and water.
- Seedlings can be grown on the dry side (moisture level about 2-3) after stage 2 as tuberous roots (nodules) develop.

Tuberous roots



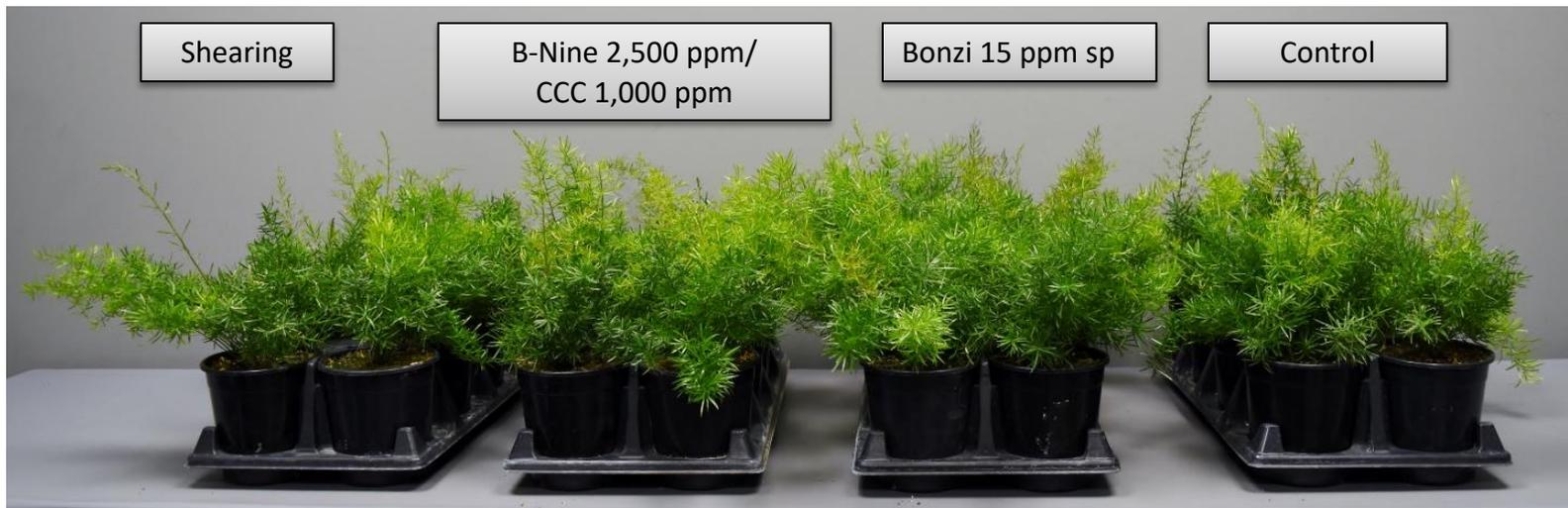
# Asparagus FuzzyFern™ Frizz

PGR Response Presented, published 2022

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## ANNUALS

- Asparagus did not respond to the rates of Bonzi, B-Nine, or tank mix of B-Nine and CCC.
- Shearing had a negative effect, causing tip necrosis.
- Asparagus may not need any PGR, as tall/long shoots will bend down naturally and become mounding plant.



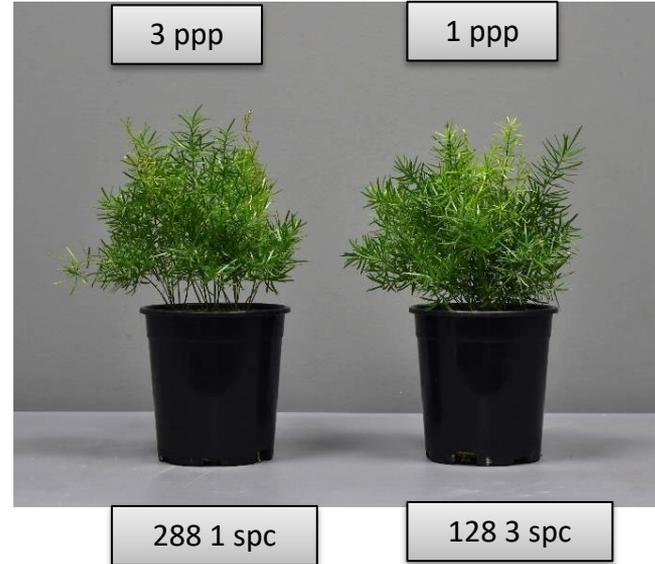
# Asparagus FuzzyFern™ Frizz

Plugs Per Pot Presented, published 2022

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## ANNUALS

- With single sowing (left plant), 3 plugs per quart pot is recommended.
- With 3 spc (right plant), one plug per quart pot is good enough.



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Culture Research Presented, published 2022

PanAmericanSeed.

## ANNUALS

Crop time under ADT 66°F/19°C:

Pot size	Plug size	Plug per pot	Wks from TP to finish
Quart	288 with 1 spc	3	14-15
Quart	128 with 3 spc	1	14-15