



**PIEDMONT RESEARCH STATION PUMPKIN FIELD DAY
10/12/2022**

Pumpkin Variety Trial:

Planted: 06/20/2022

Spacing: 5' in-row spacing, 10' centers or ~ 871 plants/ac

Plots: 50' plots, 3 plots/row, 3 plastic rows @ 150' long, 3 bareground rows @ 150' long

Variety	Size
Field Trip F1	Mini
Mystic Plus	Mini
Jack Sprat	Mini
Orange Sunrise	Med
Howden's Field	Med
Gladiator	Med
Kratos	Large
Olympus Farmore F1	Large
Dynasty	Large

Field Layout

Jack Sprat	Jack Sprat	Gladiator	Gladiator	Dynasty	Dynasty
Mystic Plus	Mystic Plus	Howden's Field	Howden's Field	Olympus Farmore F1	Olympus Farmore F1
Field Trip F1	Field Trip F1	Orange Sunrise	Orange Sunrise	Kratos	Kratos

60' wide, 150' long

ROAD

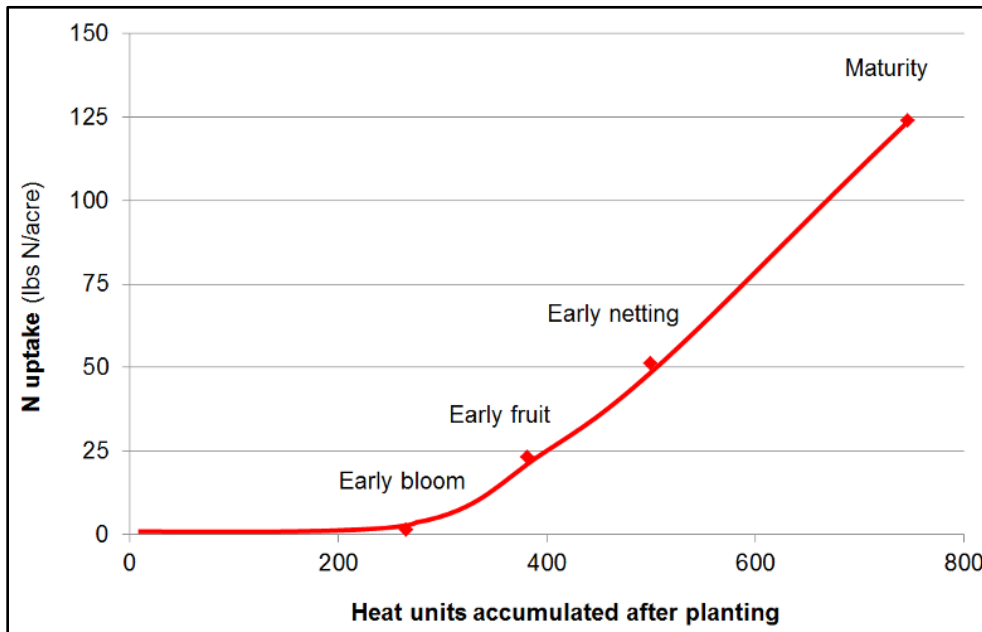
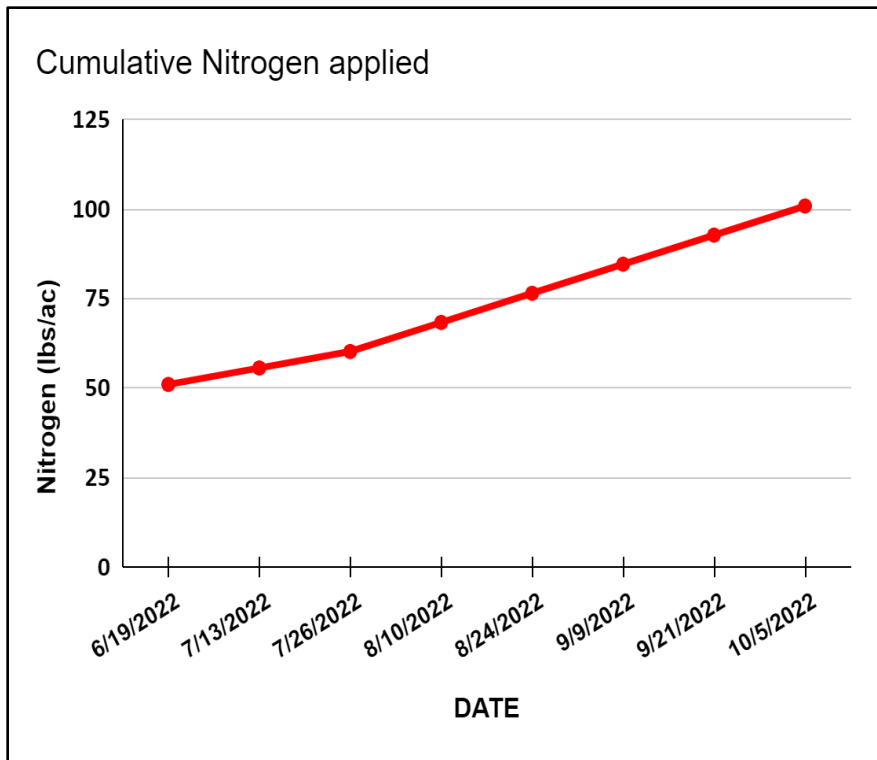


Fertility Rates:

Pre-plant fertility: 50 lbs N/ac, 100 lbs P/ac, 100 lbs K/ac(17-17-17, 0-25-25)

In-season fertigation: 50 lbs N/ac, 50 lbs K/ac, 35 lbs/ac Ca (15.5-0-0, 13.7-0-46)

Total: 100 lbs N/ac, 100 lbs P/ac, 150 lbs K/ac





"Melon nitrogen uptake and partitioning", California Crop fertilization guidelines, CDFA

IPM program:

Key Insect pests: Cucumber beetle, squash bug, pickleworm

Key Diseases: Downy mildew, powdery mildew, bacterial wilt

Fungicide: sprayed on 1-2 week interval

July 13: Orondis Opti B (M05+49) 2.0 pt/ac

July 22: Manzate Pro Stick (M03) 3 lbs/ac + Proline 480 SC (FRAC 3) 5.7 oz/ac chemigation

August 2: Orondis Opti B (M05+49) 2.0 pt/Ac

August 12: Manzate Pro Stick (M03) 3 lbs/ac + Ranman 400SC (FRAC 21) 2.75 oz/ac

August 18: Orondis Opti B (M05+49) 2.0 pt/Ac + Quintec (FRAC 13) 6 oz/ac

August 26: Manzate Pro Stick (M03) 3 lbs/ac + Ranman 400SC (FRAC 21) 2.75 oz/A

September 9: Orondis Opti B (M05+49) 2.0 pt/ac + Torino (U6) 3.4 oz/ac

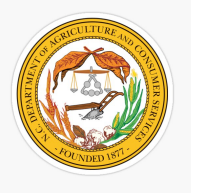
Insecticide: sprayed as-needed per scouting

July 13: Brigade 2EC (IRAC 3A) 6.4 oz/ac

July 14: Admire Pro (IRAC 4A) 10.5 oz/ac

July 26: Venom (IRAC 4A) 7.5 oz/ac chemigation

September 9: Mustang Maxx (IRAC 3A) 1.5 oz/ac



Fungicide Products for...

Downy Mildew:

Ranman 400 SC, Revus 2.08 F, Orondis Opti SC, Ridomil Gold Bravo

Powdery Mildew:

Torino, Switch 62.5 WG, Quadris, Fontelis, Quintec, Pristine

Bacterial wilt:

manage via insecticide (vectored by cucumber beetles)

Insecticide Products for...

Squash Bugs:

Assail 30 SG, Belay 2.13, Venom 70 SG, Sivanto Prime

Cucumber Beetle:

Assail, Sevin, Belay, Venom, Admire Pro

Aphids:

Sivanto Prime, Admire Pro, Assail, Transform 50 WG

Pickle worm:

Sevin, Coragen, Pyrethroids