

2011 UC Cooperavive Extension Corn Variety Trial - UC Davis

Cooperator: Jim Jackson Plant Science UC Davis

Experimenters: Brittan, Kochi

Planting Date: April 19,2011

Planter: John Deer Maxi Merg Air planter

Planting Depth: 2.5 inches

Rows Per Plot: 6, 2 rows/bed

Soil Type: Yolo silt loam

Fertilizer: 16 lbs N Preplant 8-24-6 1%Zn + 250 lbs N Post emergence sidedressed

Irrigation: By furrow

Location: UCD Plant Sciences

Harvest Date: October 21, 2011

Seed drop: 7 inches

Length of Plots: 476 ft

Row Width: 2 rows on 60 inch beds

Replications: 2

Previous Crop: Wheat

Herbicide: Roundup Ultra Max

Insecticide: None

| Company Initials | Entry Name/NO. | Company Name | Stand Plants/A | Days to Bloom | Maize | | | | | | | | | | Duncan's Multiple Range Test (5%) |
|---------------------------------|-------------------|-----------------|-------------------|------------------|---------------|----------------|-------------|-------------|---------------|----------------|-----------------------------|-------------------------|--|----|--|
| | | | | | Mosaic (%) | ear rot (%) | Smut (%) | Smut (%) | Plants (%) | Height (in) | Moisture at Harv. (%) | Bushel Wt. lbs/bu | Grain Yield ¹ (lbs/A) | | |
| DK | DKC62-63GENVT3P | Dekalb | 32234 | 84 | 0 | 2 | 0 | 0 | 1 | 55 | 14.8 | 59.2 | 12890 | A | |
| NT | 5H-515 | NuTech Seed | 32234 | 91 | 0 | 3 | 0 | 1 | 0 | 68 | 15.0 | 60.9 | 12763 | A | |
| DK | DKC64-83GENVT3P | Dekalb | 36590 | 89 | 0 | 1 | 0 | 3 | 0 | 57 | 14.4 | 60.3 | 12423 | A | |
| CP | 6331VT3 | Croplan | 32234 | 85 | 0 | 2 | 0 | 0 | 0 | 54 | 15.6 | 58.0 | 12329 | A | |
| ES | ES7443VT3P | Eureka Seeds | 36590 | 87 | 0 | 1 | 0 | 1 | 1 | 56 | 14.7 | 58.8 | 11467 | B | |
| CP | 6818VT3/P | Croplan | 32234 | 92 | 0 | 0 | 0 | 1 | 1 | 62 | 15.4 | 59.3 | 11438 | B | |
| ES | ES7532VT3 | Eureka Seeds | 31363 | 91 | 0 | 7 | 0 | 9 | 0 | 59 | 14.9 | 57.1 | 11369 | BC | |
| NT | 3A-511 | NuTech Seed | 32234 | 91 | 0 | 1 | 0 | 4 | 5 | 67 | 13.7 | 58.8 | 11347 | BC | |
| NT | 5H-716 | NuTech Seed/U | 30492 | 91 | 0 | 10 | 0 | 6 | 0 | 68 | 14.9 | 61.4 | 11159 | BC | |
| INT | 9640VT3 | Integra | 33106 | 84 | 0 | 5 | 0 | 1 | 0 | 59 | 14.8 | 58.3 | 10922 | BC | |
| INT | 9613VT3 | Integra | 29621 | 86 | 0 | 4 | 0 | 0 | 0 | 52 | 14.8 | 57.9 | 10781 | C | |
| INT | 9650VT3PRO | Integra | 32234 | 89 | 0 | 13 | 0 | 7 | 0 | 59 | 14.7 | 56.6 | 10161 | D | |
| Average | | | 32597 | 88 | 0 | 4 | 0 | 3 | 1 | 59 | 14.8 | 58.9 | 11587 | | |
| Coefficient of Variation | | | 4.4 | 0.6 | NA | 21.8 | NA | 25.1 | NA | 3.9 | 2.9 | 1.0 | 2.2 | | |
| LSD @ 5% | | | 3158.3 | 1.2 | | 1.8 | | 1.4 | | 5.3 | 1.0 | 1.3 | 558.5 | | |
| Significant Variety effect | | | ** | ** | | ** | | ** | | ** | NS | ** | ** | | |
| Rep effect | | | | | | ** | | | | | * | | * | | |

* 95% Significance

** 99% Significance

¹ Yield adjusted to 15% moisture

NS= Not Significant, NA= Not Analyzed

2011 UC Cooperavive Extension Corn Variety Trial - Tyler Island

Cooperator: Steve and Gary Mello
Experimentors: Kent Brittan, Mark Kochi
Planting Date: May 2, 2011
Planter: White air planter, 8 row
Planting Depth: 2 inches
Rows Per Plot: 4
Soil Type: Rindge mucky silt loam, 10-25% Organic matter, Storie index 57, Grade 3
Fertilizer: 25 gallons per acre of 8-24-6 with 1/2% zinc banded 1.5 inches and to the side of seed.
Irrigation: By spud ditch
Location: Tyler Island, CA

Harvest Date: October 20, 2011
Seed drop: 6 inches, 35,000seed/ac
Length of Plots: 1250
Row Width: 30 inches
Replications: 2
Previous Crop: Corn
Herbicide: Accent and Shark
Insecticide: None

| Entry Initials | Company Name/NO. | Company Name | Maize D Fusarium Head Common Plants Ear Moisture Bushel | | | | | | | | | | | Duncan's Multiple Range Test (5%) |
|------------------------------------|---------------------|-----------------|---|------------------|-------------------|----------------|-------------|-------------|---------------|----------------|-----------------|---------------|-------------------------------|--|
| | | | Stand Plants/A | Days to Bloom | Mosaic No./100 | ear rot (%) | Smut (%) | Smut (%) | Lodged (%) | Height (in) | at Harv. (%) | Wt. lbs/bu | Yield ¹ (lbs/A) | |
| ES | ES7443VT3P | Eureka Seeds | 39204 | 79 | 0 | 1 | 1 | 0 | 3 | 53 | 18.1 | 59.5 | 15339 | A |
| DK | DKC64-82 | Grower | 33106 | 79 | 0 | 1 | 4 | 0 | 1 | 56 | 18.8 | 59.8 | 15152 | AB |
| CP | 6818VT3/P | Croplan | 36590 | 80 | 0 | 2 | 3 | 0 | 1 | 54 | 18.8 | 58.4 | 15005 | ABC |
| NT | 5H-515 | NuTech Seed | 38333 | 81 | 0 | 3 | 0 | 0 | 5 | 68 | 19.8 | 59.8 | 14914 | ABCD |
| CP | 6818RR S39 | Grower | 34848 | 80 | 0 | 0 | 4 | 1 | 2 | 58 | 19.8 | 57.9 | 14878 | ABCD |
| PI | 32T82 | Grower | 36590 | 80 | 0 | 1 | 1 | 0 | 17 | 57 | 18.8 | 59.5 | 14634 | ABCD |
| INT | 9650VT3PRO | Integra | 37462 | 81 | 0 | 0 | 5 | 0 | 0 | 58 | 18.3 | 56.9 | 14556 | ABCDE |
| DK | DKC62-61 | Grower | 37462 | 79 | 0 | 2 | 6 | 0 | 0 | 51 | 17.5 | 58.3 | 14238 | ABCDE |
| DK | DKC61-22 | Grower | 38333 | 80 | 0 | 2 | 17 | 0 | 0 | 57 | 18.0 | 58.3 | 14224 | ABCDEF |
| INT | 9664VT3PRO | Grower | 38333 | 80 | 0 | 0 | 5 | 0 | 0 | 53 | 20.3 | 57.9 | 14172 | ABCDEF |
| DK | DKC64-83GEN | Dekalb | 36590 | 79 | 0 | 3 | 5 | 0 | 0 | 52 | 18.8 | 60.4 | 14079 | ABCDEFG |
| INT | 9673 | Grower | 35719 | 80 | 0 | 1 | 12 | 0 | 3 | 60 | 20.8 | 55.5 | 13937 | BCDEFG |
| ES | ES7532VT3 | Eureka Seeds | 35719 | 80 | 0 | 0 | 6 | 1 | 0 | 60 | 19.4 | 56.2 | 13764 | CDEFG |
| INT | 9613VT3 | Integra | 35719 | 80 | 0 | 1 | 26 | 0 | 0 | 48 | 18.0 | 58.3 | 13643 | DEFG |
| INT | 9640VT3 | Integra | 35719 | 81 | 0 | 1 | 4 | 0 | 0 | 58 | 18.2 | 58.3 | 13248 | EFG |
| CP | 6331VT3 | Croplan | 36590 | 79 | 0 | 1 | 12 | 0 | 0 | 48 | 18.9 | 57.5 | 12891 | FGH |
| NT | 5H-716 | NuTech Seed | 37462 | 82 | 0 | 1 | 8 | 0 | 2 | 72 | 19.5 | 59.6 | 12788 | GH |
| DK | DKC62-63GEN | Dekalb | 34848 | 78 | 0 | 3 | 15 | 0 | 1 | 51 | 17.7 | 58.3 | 11867 | H |
| Average | | | 36590 | 80 | 0 | 1 | 7 | 0 | 2 | 56 | 18.8 | 58.3 | 14074 | |
| Coefficient of Variation(%) | | | 5 | 1 | | 29 | 19 | | 44 | 5 | 2.7 | 1.1 | 4 | |
| LSD @ 5% | | | 3566 | 1 | | 1 | 3 | | 2 | 6 | 1.7 | 1.4 | 1174 | |
| Significant Variety effect | | | | ** | | ** | ** | | ** | ** | ** | ** | ** | |
| Rep effect | | | | | | * | | | | | * | | ** | |
| Non-additivity | | | ** | | | | * | | | | | | | |

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** 99% Significance

¹ Yield adjusted to 15% moisture

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2011 UC Cooperavive Extension Corn Variety Trial - Hastings Track

Cooperator: Mark Boyd, Hastings Island Land Company
Experimentors: Brittan, Kochi
Planting Date: April 27, 2011
Planter: NGplus Monosim Air planter
Planting Depth: 2.5 inches
Rows Per Plot: 6
Soil Type: Egbert silty clay loam
Fertilizer: 3-8-11 plus 0.25Zn at 50gal/ac, layby 50gal/ac UN32
Irrigation: By furrow
Location: Southwest end Hastings Island 1/4mi SW of grain tanks

Harvest Date: October 21, 2011
Seed drop: 7 inches
Length of Plots: 1250 feet
Row Width: 6 rows 2/60 inch beds
Replications: 2
Previous Crop: Safflower
Herbicide: Roundup Ultramax
Insecticide: Oboron for mites

| Company Initials | Entry Name/NO. | Company Name | Stand Plants/A | Days to Bloom | Maize | | | | | Ear Height (in) | Moisture at Harv. (%) | Bushel Wt. Calculated lbs/bu | Grain Yield ¹ (lbs/A) | Duncan's Multiple Range Test (5%) |
|---------------------------------|-------------------|-----------------|-------------------|------------------|-------|----------|------|--------|--------|-----------------------|-----------------------------|------------------------------------|--|--|
| | | | | | Dwarf | Fusarium | Head | Common | Lodged | | | | | |
| CP | 6818RRS39 | Croplan | 33106 | 92 | 0 | 0 | 0 | 0 | 0 | 59 | 18.8 | 58.1 | 15126 | A |
| DK | DKC62-63GENVT3P | Dekalb | 34848 | 87 | 0 | 0 | 0 | 0 | 0 | 52 | 16.7 | 59.4 | 15068 | A |
| CP | 6331VT3 | Croplan | 32234 | 92 | 0 | 0 | 0 | 0 | 0 | 53 | 16.9 | 58.2 | 14469 | B |
| CP | 6818VT3/P | Croplan | 35719 | 90 | 0 | 0 | 0 | 0 | 0 | 58 | 18.2 | 58.1 | 14368 | BC |
| NT | 5H-716 | NuTech Seed | 32234 | 83 | 0 | 0 | 0 | 0 | 0 | 69 | 18.1 | 60.5 | 14184 | BCD |
| ES | ES7443VT3P | Eureka Seeds | 33977 | 85 | 0 | 1 | 0 | 0 | 0 | 53 | 16.4 | 59.3 | 14151 | BCD |
| INT | 9613VT3 | Integra | 32234 | 88 | 0 | 1 | 0 | 0 | 0 | 57 | 15.6 | 58.3 | 13919 | BCDE |
| PI | 32T82 | Pioneer | 34848 | 85 | 0 | 0 | 0 | 0 | 0 | 55 | 16.5 | 60.9 | 13735 | CDEF |
| ES | ES7532VT3 | Eureka Seeds | 35719 | 85 | 0 | 1 | 0 | 0 | 0 | 62 | 16.2 | 57.4 | 13568 | DEF |
| PI | 31G97 | Pioneer | 33977 | 89 | 0 | 2 | 0 | 0 | 0 | 64 | 16.6 | 60.4 | 13462 | EF |
| INT | 9650VT3PRO | Integra | 33977 | 86 | 0 | 0 | 0 | 0 | 0 | 59 | 16.5 | 56.4 | 13431 | EF |
| INT | 9640VT3 | Integra | 32234 | 92 | 0 | 2 | 0 | 0 | 0 | 52 | 15.6 | 58.2 | 13407 | EF |
| NT | 5H-717 | NuTech Seed | 32234 | 91 | 0 | 0 | 0 | 0 | 0 | 62 | 18.2 | 60.1 | 13302 | EF |
| ES | ES7548VT3 | Eureka Seeds | 34848 | 86 | 0 | 0 | 0 | 0 | 0 | 59 | 15.2 | 55.4 | 13294 | EF |
| DK | DKC64-83GENVT3P | Dekalb | 32234 | 91 | 0 | 3 | 0 | 0 | 0 | 55 | 15.0 | 60.2 | 13079 | FG |
| INT | 9651VT3 | Integra | 33106 | 86 | 0 | 0 | 0 | 0 | 1 | 58 | 17.3 | 56.1 | 12586 | G |
| Average | | | 33596 | 88 | 0 | 1 | 0 | 0 | 0 | 58 | 16.7 | 58.5 | 13822 | |
| Coefficient of Variation | | | 2.9 | 1.3 | NA | 73.0 | NA | NA | NA | 1.3 | 2.2 | 1.2 | 2.0 | |
| LSD @ 5% | | | 2083.3 | 2.5 | | 0.8 | | | | 1.5 | 0.8 | 1.5 | 600 | |
| Significant Variety effect | | | ** | ** | | NS | | | | ** | ** | ** | ** | |
| Rep effect | | | | | | | | | | | ** | | | |

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