

Table of Characteristics of Outstanding World Vegetable Center-Developed Tomato Lines

| Category & inbred line | Other name | Target environment | Heat tolerance | Maturity | Plant habit | Disease resistances | | | | | | High pigment gene | Crimson gene | Fruit shoulder | Fruit wt (g) | Fruit shape | Pedicel | Fruit color |
|--------------------------------|-----------------------|--------------------|----------------|---------------|-------------|---------------------|-------------------|------------|------------------------------|-------------------------|-------------|-------------------------|------------------------|----------------|--------------|-------------|---------|-------------|
| | | | | | | LB | BW | FW R2 | TYLCD | TMV | RKN | | | | | | | |
| Fresh market tomato | | | | | | | | | | | | | | | | | | |
| AVTO0301 | CLN2498D | Warm dry | Moderate | Medium | SD | - | <i>Bwr12</i> | - | <i>Ty-2</i> | <i>Tm2</i> ² | - | - | - | Uniform | 85 | Oblong | J+ | Red |
| AVTO1219 | CLN3241H-27 | Cool dry/cool wet | Fair | Medium | SD | <i>Ph-2, Ph-3</i> | <i>Bwr12</i> | <i>I-2</i> | <i>Ty-1/Ty-3, Ty-2</i> | <i>Tm2</i> ² | - | - | - | Uniform | 76 | Blocky | J+ | Red |
| AVTO1429 | FMTT1733D | Cool dry | Good | Medium | I | - | <i>Bwr12</i> | <i>I-2</i> | <i>Ty-3, Ty-2</i> | <i>Tm2</i> ² | - | - | - | Green | 143 | Round | J+ | Red |
| AVTO1464 | FMTT1733E | Cool dry | Good | Medium | I | - | <i>Bwr12</i> | <i>I-2</i> | <i>Ty-3, Ty-2</i> | <i>Tm2</i> ² | - | - | - | Green | 130 | Round | J+ | Red |
| AVTO1701 | CLN3736D | Cool dry | Fair | Medium | SD | <i>Ph-2, Ph-3</i> | - | - | <i>Ty-1/Ty-3, Ty-2, ty-5</i> | - | - | - | - | Uniform | 104 | R-BL | J+ | Red |
| AVTO1919 | CLN3938K-8 | Warm dry | Moderate | Medium | D | - | <i>Bwr12</i> | - | <i>Ty-1/Ty-3</i> | - | - | - | <i>og</i> ^c | Uniform | 110 | Round | J+ | Red |
| AVTO1920 | CLN4032C-8 | Warm dry | Moderate | Medium | D | - | <i>Bwr12</i> | - | <i>Ty-1/Ty-3</i> | - | <i>Mi-1</i> | - | - | Uniform | 133 | Round | J+ | Red |
| AVTO1954 | CLN3940C | Cool dry/cool wet | Fair | Medium | SD | <i>Ph-2, Ph-3</i> | <i>Bwr12</i> | <i>I-2</i> | <i>Ty-1/Ty-3, Ty-2</i> | - | - | - | - | Uniform | 70 | Blocky | J+ | Red |
| AVTO2014 | CLN3764D-21 | Cool dry/warm dry | Fair | Moderate late | SD | <i>Ph-2</i> | <i>Bwr12</i> | <i>I-2</i> | <i>Ty-1/Ty-3</i> | - | - | - | - | Uniform | 115 | BL-OB | J+ | Red |
| AVTO2027 | CLN4197F | Warm dry/warm wet | Good | Medium | SD | - | <i>Bwr12</i> | - | <i>Ty-1/Ty-3, Ty-2, ty-5</i> | - | - | - | - | Uniform | 70 | Oblong | J+ | Red |
| AVTO2101 | CLN4018G | Warm dry/warm wet | Good | Medium | D | - | <i>Bwr12/Bwr6</i> | - | <i>Ty-2</i> | - | - | - | - | Uniform | 130 | Round | J+ | Red |
| Processing/Fresh market tomato | | | | | | | | | | | | | | | | | | |
| AVTO9801 | CLN1621L | Warm dry | Good | Early | D | - | - | - | - | <i>Tm2</i> ² | - | - | - | Uniform | 40 | Plum | J+ | Red |
| AVTO9802 | CLN2026D | Warm dry | Good | Early | D | - | <i>Bwr12</i> | <i>I-2</i> | - | <i>Tm2</i> ² | - | - | - | Uniform | 65 | Globe | J+ | Red |
| AVTO1424 | CLN3682C | Cool dry | Good | Medium | SD | - | <i>Bwr12</i> | - | <i>Ty-1/Ty-3, Ty-2</i> | <i>Tm2</i> ² | <i>Mi-1</i> | - | - | Uniform | 90 | Oblong | J+ | Red |
| AVTO1706 | CLN3961D | Cool dry | Good | Medium | D | - | <i>Bwr12</i> | - | <i>Ty-1/Ty-3, Ty-2</i> | - | - | <i>hp</i> ⁻¹ | <i>og</i> ^c | Uniform | 91 | BL-OB | J+ | Red |
| AVTO1707 | CLN3961C | Cool dry | Good | Medium | D | - | <i>Bwr12</i> | - | <i>Ty-1/Ty-3, Ty-2</i> | - | - | <i>hp</i> ⁻¹ | <i>og</i> ^c | Uniform | 76 | BL-OB | J+ | Red |
| AVTO1906 | CLN4066F | Warm dry | Good | Medium | D | - | <i>Bwr12</i> | <i>I-2</i> | <i>Ty-1/Ty-3, Ty-2</i> | - | <i>Mi-1</i> | - | <i>og</i> ^c | Uniform | 87 | Blocky | J+ | Red |
| AVTO1907 | CLN4066E | Warm dry | Good | Medium | SD | - | <i>Bwr12</i> | - | <i>Ty-1/Ty-3, Ty-2</i> | - | <i>Mi-1</i> | - | <i>og</i> ^c | Uniform | 95 | Blocky | J+ | Red |
| AVTO1909 | CLN4078A | Warm dry | Good | Medium | D | <i>Ph-3</i> | <i>Bwr12</i> | <i>I-2</i> | <i>Ty-1/Ty-3, Ty-2</i> | - | <i>Mi-1</i> | - | - | Uniform | 85 | Oblong | J+ | Red |
| AVTO1914 | CLN4079L | Warm dry | Good | Medium | SD | <i>Ph-3</i> | <i>Bwr12</i> | - | <i>Ty-1/Ty-3, Ty-2</i> | - | <i>Mi-1</i> | - | <i>og</i> ^c | Uniform | 96 | OB-PL | J+ | Red |
| AVTO1915 | CLN4079M | Warm dry | Good | Medium | SD | <i>Ph-3</i> | <i>Bwr12</i> | - | <i>Ty-1/Ty-3, Ty-2</i> | - | <i>Mi-1</i> | - | - | Uniform | 87 | OB-PL | J+ | Red |
| AVTO2149 | CLN4251A | Warm dry/warm wet | Good | Medium | D | - | <i>Bwr12</i> | <i>I-2</i> | <i>Ty-1/Ty-3, Ty-2</i> | - | - | - | <i>og</i> ^c | Uniform | 80 | R-BL | J+ | Red |
| AVTO2151 | CLN4251C | Warm dry/warm wet | Good | Medium | D | - | <i>Bwr12</i> | - | <i>Ty-1/Ty-3, Ty-2</i> | - | <i>Mi-1</i> | - | <i>og</i> ^c | Uniform | 96 | BL-OB | J+ | Red |
| Cherry tomato | | | | | | | | | | | | | | | | | | |
| AVTO1349 | CLN3284J | Cool dry/warm dry | Good | Medium | I | - | - | - | <i>Ty-1/Ty-3</i> | <i>Tm2</i> ² | - | - | - | Green | 20 | Oblong | J+ | Red |
| AVTO2036 | CLN4123C | Warm dry/warm wet | Good | Medium | I | <i>Ph-3</i> | - | <i>I-2</i> | <i>Ty-2</i> | <i>Tm2</i> ² | - | - | - | Green | 12 | Globe | J+ | Red |
| AVTO2037 | CLN4201F | Warm dry/warm wet | Good | Medium | I | <i>Ph-3</i> | - | <i>I-2</i> | <i>Ty-1/Ty-3</i> | - | - | - | - | Green | 16 | Oblong | J+ | Pink |
| High beta-carotene tomato | | | | | | | | | | | | | | | | | | |
| AVTO9706 | CLN2070A ² | Cool dry/hot dry | Good | Medium | I | - | - | - | - | <i>Tm2</i> ² | - | - | - | Green | 15 | Globe | J+ | Orange |
| AVTO9805 | CLN2071C ² | Cool dry/hot dry | Good | Medium | I | - | - | - | - | <i>Tm2</i> ² | - | - | - | Green | 15 | Oblong | J+ | Orange |
| AVTO0102 | CLN2366B ¹ | Hot wet | Good | Early | D | - | <i>Bwr12</i> | - | - | <i>Tm2</i> ² | - | - | - | Uniform | 60 | Globe | J+ | Orange |
| AVTO1174 | CLN3284A ² | Cool dry/hot dry | Good | Medium | I | - | - | - | <i>Ty-1/Ty-3</i> | <i>Tm2</i> ² | - | - | - | Green | 19 | Oblong | J+ | Orange |

¹Fresh market tomato, ²Cherry tomato; Plant habit: D = determinate, I = indeterminate, SD = semi-determinate; - = susceptible allele.

LB = late blight resistance caused by *Phytophthora infestans*. *Ph-2, Ph-3* genes condition resistance to T1,3 and T1,2 isolates, respectively.

BW = drench inoculation with *Ralstonia solanacearum* strain Pss4 in the greenhouse; *Bwr-12/Bwr-6* genes condition bacterial wilt resistance. - = susceptible allele

FW R2 = race 2 of the fusarium wilt pathogen *Fusarium oxysporum* f. sp. *lycopersici*; *I2* gene conditions resistance to race 2 of the Fusarium wilt pathogen. - = susceptible allele

Ty1/Ty3, Ty2, ty-5 genes condition resistance to Tomato yellow leaf curl disease (TYLCD); *Tm2*² conditions *Tomato mosaic virus* (TMV) resistance.

Mi-1 gene conditions resistance to the root-knot nematode (*Meloidogyne incognita*). - = susceptible

High pigment (*hp*⁻¹) gene increases lycopene & beta-carotene content. Crimson (*og*^c) gene increases lycopene content.

Fruit shape: R-BL = round-blocky, BL-OB = blocky-oblong, OB-PL = oblong-plum, R-BL = round-blocky; Pedicel: J+ = jointed, J- = jointless