

Characteristics of Avocado Rootstocks

	Toro Canyon	Dusa Merensky 2	Latas Merensky 1 (h)	Duke 7	Borchard	Thomas	Zentmyer PP4 (h)	Uzi PP14 (h)	Mexican Seedling	G-6
Normal Propagation Method	Clonal	Clonal	Clonal	Clonal	Clonal	Clonal	Clonal	Clonal	Seed	Seed
Productivity "Clean" Soil - a	3	4	?	4	4	2	2	3.5	3	3
Productivity "Root Rot" Soil - b	3.5	4	4	3	2	3	5	5	1	2.5
Tree Size "Clean" Soil - a	4	5	5	5	5	5	5	5	5	5
Tree Size "Root Rot" Soil - b	3	4	4	2	0.5	4	4	5	0.5	1
Tolerance to P. cinnamomi - c	3.5	5	4.5	3	0.5	4.5	5	5	0	2
Tolerance to P. citricola - d	5	?	?	4	3	2	3	4	3	3
Salt Tolerance - e	3.5	4	5	3	4.5	1	1	4	2	2
Tolerance to Lime-Induced Chlorosis	3	?	?	4	5	3	?	?	2	2
Frost Tolerance - f	4.5	4.5	4.5	4	4.5	4.5	5	?	4.5	4.5
Tolerance to Dothierella - g	5	5	5	5	5	2	4	3	5	2
Horticultural Race	Mexican	Mex X Guat.	Mex X Guat.	Mexican	Mexican	Mexican	Mexican	Mexican	Mexican	Mexican
Parentage	Escape Seedling	Escape Seedling	Escape Seedling	Duke	Escape Seedling	Escape Seedling	Breeding Plot	Breeding Plot		Collection
Geographic Origin	Carpinteria	South Africa	South Africa	Riverside	Oxnard	Escondido	Riverside	Riverside	Mexico	Guatemala

Legend: 0 = Poor, 5 = Best

Ratings by J. Menge, G. Bender, and M.L. Arpaia, 2002

Footnotes

- a. Yield and canopy volume expressed as percentage in comparison to Topa Topa (Mexican seedling), based on 7 years of data (6 years for Thomas) at South Coast Field Station (Arpaia et. Al 1993)
 - b. Yield and canopy volume expressed as percentage in comparison to Thomas (consolidated data from J. Menge, 2002)
 - c. Consolidation of performance of young replant trials, ratings by J. Menge
 - d. Results from greenhouse trials by A. Alizadah and J. Menge (unpublished)
 - e. Rootstock trial in sand tanks treated with three levels of saline water (Oster and Arpaia, 1991)
 - f. Observations of ungrafted rootstocks by G. Bender and J. Menge after freezes in 1988-1991
 - g. Results from greenhouse trials by A. Alizadah and J. Menge (unpublished)
 - h. Not commercially available as of 11/12/02. Many horticultural characteristics are preliminary or unknown
- No rootstocks withstand prolonged soil saturation