

- Present and Future. P. M. Syngé and E. Napier, eds. Royal Hort. Soc. London, pp. 72-77.
2. Fogle, H. W. 1975. Cherries. In, Advances in Fruit Breeding. J. Janick and J. N. Moore, eds. Purdue University Press. pp. 348-366.
 3. Hess, C. O. 1975. Peaches. In, Advances in Fruit Breeding. J. Janick and J. N. Moore, eds. Purdue University Press. pp. 285-335.
 4. Lapins, K. 1965. The Lambert compact cherry. *Fruit Var. Hort. Dig.* 19:23-24.
 5. ———. 1971. Stella, a self-fruitful sweet cherry. *Can. J. Plant Sci.* 51:252-253.
 6. ———. 1974. Compact Stella sweet cherry. *Can. J. Plant Sci.* 54:849-850.

Mahaleb x Mazzard Hybrid Cherry Stocks

M. N. WESTWOOD¹

About two dozen *Prunus mahaleb* x *P. avium* (Mazzard) (M x M) clonal rootstocks have been tested for sweet cherry in Oregon by R. L. Stebbins and the author since 1965. Results have varied considerably from plot to plot. Only clone 14 is as dwarfing as Stockton Morello stock, while clones 3, 39, and OCR-2 result in moderate growth control. Other M x M clones appeared about as vigorous as Mazzard controls.

Flowering and fruiting varied con-

siderably with the different rootstocks. Yield efficiency was best with clones 2, 39, 46, 49, 54, 88, and OCR-2. Efficiency was good on Mazzard, Stockton Morello, and M x M clone 14.

When used as trunkstocks, the M x M clones appear not to be injured severely by bacterial canker (*Pseudomonas* spp.).

Mineral nutrient uptake varied somewhat among the M x M clones, but in most cases, did not affect general performance (Table 1).

Table 1. Effect of rootstock on mineral nutrient levels of sweet cherry (4 cvs) leaves (Corvallis, OR 1975).

Rootstock	Percent dry wt.					ppm dry wt.					
	N	P	K	Ca	Mg	Mn	Fe	Cu	B	Zn	Al
M x M 2	2.76	.28	1.98	1.00	.58	53	227	14	48	30	153
M x M 3	2.32	.29	1.70	1.98	.64	48	293	13	66	17	210
M x M 14	2.34	.28	1.65	1.58	.54	36	227	13	64	15	143
M x M 18	2.52	.28	1.91	1.69	.50	35	169	12	60	15	126
M x M 44	2.18	.28	1.79	1.87	.54	40	248	10	64	11	153
M x M 46	2.60	.27	1.96	1.47	.51	44	283	10	60	14	188
M x M 49	2.43	.31	1.93	1.89	.53	42	247	15	63	13	151
M x M 60	1.88	.26	1.96	1.22	.38	34	293	9	52	14	190
M x M 79	2.47	.24	1.89	1.66	.46	35	246	10	58	12	174
M x M 88	2.66	.26	1.55	1.50	.48	36	173	12	50	15	93
M x M 94	2.41	.24	1.85	1.53	.48	39	249	12	54	14	148
M x M 97	2.16	.21	1.87	1.22	.38	48	300	9	54	12	216
M x M 100	1.94	.24	1.83	1.66	.46	35	256	10	54	12	138
Stockton Morello	2.52	.28	1.68	1.73	.52	48	211	10	50	22	139
F 12/1 Mazzard	2.20	.24	1.20	1.74	.61	49	212	10	47	16	118

¹Oregon State University, Corvallis, OR.