

TREE FRUIT RESEARCH COMMISSION - WSU APPLE CULTIVAR STUDY

Japanese Apples Tested in Western WA 1966-1996

WSU Mount Vernon Northwestern Washington Research and Extension Unit'

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<u>Cultivar</u>	<u>Rootstock</u>	<u>Source</u>	<u>Budded</u>
Beni No Mai	M26	ProTree	B4/91
Beni Osho (P-400)	M26	ProTree	B4/91
Fuji, Standard	M26	Auvil	8/86
Fuji, Akifu #1	M26	Auvil	8/89
Fuji, Yataka	M26	Auvil	3/87,8/88
FuShauI vf	M26,M9	IR2	8/90,4/93
Hatsuaki	M26	Treco	3/87
Himekami	M7,Mk	Auvil	8/86
Jonagold, New	M26	Treco	8/86
Kogetsu	M7,Mk	Broetje	8/86
Kotoku	M26	Auvil	3/87
Michinoku	M7,Mk	Treco	8/86
Nebuta	M7,Mk	Treco	8/86
Orin	M7,Mk	Auvil	8/86
Sansa	Mark	IR2	B3/92
Sayaka	M26	Auvil	3/87
Scarlet	M7,Mk	Auvil	8/86
Senshu	Mark	Auvil	8/86
UltraEarli (Senshu)	M9	Stark Bro's.	3/94
Shizuka	Mark	Auvil	9/86
Takane	M26	Auvil	8/86
Tsugaru	M26	Auvil	8/86
Tsugaru, Beni (P-300)	M26	ProTree	B4/91
Tsugaru, Homei	M26	Auvil	3/87,8/88
Tsugaru, Natsuka	M7,Mk	Auvil	8/86
Tsugaru, Natsuka	M26	Auvil	3/87
Yoko	M7,Mk	Auvil	3/86

Other Japanese apples tested, not under TFRC trial:

Mutsu
Akane
Tohoku 4
Toko

SUMMARY

Cultivar	Origin	Trial Dates	Rating¹	Comments
Akane (PrimeRouge, Tokyo Rose, Tohoku 3)	Jonathan x Worcester Pearmain	1967-90	3	Attractive red mid-early, fruit size medium and below lively subacid flavor, not a keeper, does well for home orchard plantings
Beni No Mai	Fuji open pollinated – Japan (private breeder)	1993-		Not yet evaluated
Beni Osho	Red sport of Yataka Fuji	1994-		Not yet evaluated
Beni Tsugaru	Red sport of Tsugaru	1994-		Not yet evaluated
Fuji, standard	Ralls Janet x Delicious	1987-	3	Late, high quality sweet apple, pinkish-red stripe, good keeper, may lack color or fail to ripen
Fuji, Akifu 1	Red sport - Akita, Japan	1989	3	Similar to standard Fuji, may be slightly earlier ripening, size and color better
Fuji, Red, BC #2	Red sport, irradiated – Japan (Moriho-fu #2)	1994-		Not yet evaluated
Fuji, Red, TAC 114	Red sport	1994-		Not yet evaluated
Fuji, Yataka	Sport of Fuji	1988-	3	Similar to standard Fuji, better color and size in some years
Fushai	Early McIntosh x Golden Delicious – Hunan, China	1994-		Not yet evaluated
Hatsuaki	Jonathan x Golden Delicious – Morioka, Japan	1987-	3	Attractive bicolor, sweet-tart to sweet, good early in season but tends to soften in storage
Himekami	Fuji x Jonathan - Morioka	1987-96	2	Red blush & stripe, flesh sweet, bland, and tender. Discard
Jonagold, New	Sport of Jonagold - Japan	1987-	4	Supposed red sport of Jonagold, but trial showed no difference in color from standard
Kogetsu	Golden Delicious x Jonathan - Aomori	1987-92	1	Red blush & stripe, sweet, mid-late season, keeps well but poor color, scab, russet, bland flavor after storage. Discard.
Kotoku	Toko open pollinated - Aomori	1987-92	1	Small, scabby, unattractive color, good subacid flavor, may fail to mature properly
Michinoku	Kitakami x Tsugaru - Aomori	1987-96	2	Orange-red color sometimes dull, occasional dry cracks, flavor and keeping quality OK but not best, proposed discard
Mutsu	Golden Delicious x Indo	1964-	4	Late yellow apple, high quality, sweet-tart flavor, good keeper, fails to mature some years
Nebuta	Kitakami x Tsugaru - Aomori	1987-96	2	Attractive bright red, mid-early, ex. color but sweet, bland flavor, soft, proposed discard
Orin	Golden Delicious x Indo -	1987-	3	Late yellow apple, firm, good flavor, subacid to sweet-tart at maturity, but fails to

	Fukushima			ripen here some years
Sansa	Gala x Akane - Japan/N.Z. cooperative program	1992-	4	Attractive red color, early-mid, very good sweet-tart flavor
Sayaka	Jonathan x Sekai Ichi - Nagano	1988-	3	Very large fruit, red stripe 80%, good sweet-tart flavor but too large for most commercial uses
Scarlet	Akane x Starking Delicious - Nagano	1987-92	1	Poor color, mediocre flavor and quality. Discard
Senshu	Toko x Fuji - Akita	1987-	3	Red striped bicolor, color poor in some years, russeting, sweet-tart flavor
Senshu, UltraEarli	Sport of Senshu – Stark Bros.	1994-		Not yet evaluated
Shizuka	Golden Delicious x Indo - Aomori	1987-	4	Late yellow, about 1 week earlier than Mutsu, more attractive; pink blush 10%, large, very firm, good keeper, sweet-tart flavor
Takane	Redgold open pollinated - Nagano	1987-92	1	Bicolor, dull red unattractive, too late maturing, sweet-tart flavor, stores well but mediocre quality. Discard.
Tohoku 4	Jonathan x Worcester Pearmain	1975-86	3	Advanced selection, never named: good red color, sweet flavor, good resistance to scab & mildew, discarded when not named
Toko	Golden Delicious x Indo - Aomori	1973-83	2	Late yellow, unattractive, good subacid flavor, good keeper, but too late and scab susceptible. Discard.
Tsugaru	Golden Delicious x unknown - Aomori	1987-92	1	Poor color, bland sweet flavor, mediocre. Discard
Tsugaru, Homei	Red sport of Tsugaru	1988-	4	Attractive red color, uniform, very firm, good sweet-tart flavor, mid-early, good for early market, not a keeper
Tsugaru, Natsuka	red sport of Tsugaru - Aomori	1987-	3	Red stripe abt. 60% color, less color than Homei, 7-10 days later ripening, Homei is better
Yoko	Golden Delicious open pollinated) - Gunmei	1987-92	1	Bicolor red, dull unattractive color, scabby, unproductive, flavor sweet, bland. Discard.

¹Rating: 4 = high quality, performs well in western WA, commercial potential; 3 = good quality, performs well in western WA, few bad points; 2 = mediocre quality, several bad points, not recommended for western WA; 1 = major bad points, unsuitable to conditions, discard.