

CULTIVAR	SAMPLE LOCATION	DATE	NUMBER OF FRUIT PER SAMPLE	TOTAL LENGTH PER SAMPLE (cm)	TOTAL WIDTH PER SAMPLE (cm)	LENGTH /WIDTH RATIO	TOTAL WT PER SAMPLE (grams)	MEAN WEIGHT PER FRUIT (grams)	EXTERNAL COLOR BASED ON COLOR CHART	TEXTURE BASED ON CHART	TOTAL RIND THICKNESS PER SAMPLE (mm)	TOTAL SEEDS PER SAMPLE	INTERIOR COLOR DESCRIPTION	TOTAL JUICE WT. PER SAMPLE (grams)	% JUICE	TSS (TOTAL SOLUBLE SOLIDS)	% ACID (BASED ON CITRIC ACID)	RATIO (TSS / % ACID)
USDA 88-3	Lindcove	12/14/1995	10	51.3	73.7	0.7	1509.9	151.0	13.0	4.0	21	46	MED. ORANGE	799.7	53.0	12.1	1.1	11.4
USDA 88-3	Lindcove	12/14/1995	10	53.6	71.3	0.8	1409.0	140.9	13.0	4.0	20	37	MED. ORANGE	773.0	54.9	12.0	1.1	10.5
USDA 88-3	Lindcove	12/2/1996	5	28.6	40.3	0.7	950.2	190.0	13.0	4.0	14	110	BRT. ORANGE	399.4	42.0	12.4	1.4	9.0
USDA 88-3	Riverside	12/17/1996	5	29.6	38.5	0.8	684.1	136.8	13.0	3.5	13.0	39	BRT. ORANGE	318.1	46.5	11.5	1.0	11.6
USDA 88-3	Riverside	11/3/1997	5	25.8	30.6	0.8	575.8	115.2	4.0	2.0	10	44	MED. ORANGE	312.9	54.3	10.0	1.6	6.4
USDA 88-3	Irvine	11/4/1997	6	NA	NA	NA	519.9	86.7	3.5	2	12.5	108	LT. ORANGE	242.9	46.7	12.4	3.7	3.4
USDA 88-3	Lindcove	11/6/1997	8	43.6	57.7	0.8	1252.6	156.6	10.3	2.5	13	52	MED. ORANGE	658.2	52.5	10.4	1.1	9.4
USDA 88-3	Lindcove	11/6/1997	10	53.4	70.1	0.8	1496.4	149.6	7.6	2.0	19.5	59	MED. ORANGE	855.2	57.2	10.6	1.3	8.3
USDA 88-3	Riverside	12/3/1997	5	30.9	37.5	0.8	945.1	189.0	5.6	2.0	10	57	MED. ORANGE	479.4	50.7	11.0	1.1	9.6
USDA 88-3	Irvine	12/5/1997	10	51.4	64.8	0.8	1161.4	116.1	5.85	1	23	222	MED. ORANGE	593.0	51.1	13.5	2.3	5.9
USDA 88-3	Lindcove	12/12/1997	10	47.4	63.2	0.8	1216.8	121.7	13.0	3.5	17	21	BRT. ORANGE	618.8	50.9	11.8	1.0	11.7
USDA 88-3	Lindcove	12/12/1997	9	55.1	76.3	0.7	1731.6	192.4	13.0	4.5	21	41	BRT. ORANGE	906.0	52.3	11.5	1.1	10.1
USDA 88-3	Lindcove	1/6/1998	10	54.5	71.2	0.8	1495.7	149.6	12.5	3.5	21	44	MED. ORANGE	754.5	50.4	11.6	1.0	11.8
USDA 88-3	Irvine	1/6/1998	10	55.8	69.7	0.8	1435.2	143.5	12	4	26	228	BRT. ORANGE	730.8	50.9	16.1	1.5	10.4
USDA 88-3	Coachella	1/14/1998	5	32.2	37.2	0.9	776.3	155.3	11.5	2.5	14	40	LT. ORANGE	159.3	20.5	10.9	0.9	12.7
USDA 88-3	Lindcove	11/2/1998	10	53.6	61.8	0.9	1120.8	112.1	4.3	2.5	22	81	BRT. ORANGE	459.6	41.0	8.2	1.9	4.4
USDA 88-3	Irvine	11/6/1998	10	44	57.6	0.8	825.6	82.6	4.5	2	15	109	MED.-BRT. OR.	339.1	41.1	8.7	1.9	4.7
USDA 88-3	Riverside	11/9/1998	5	23.6	26.8	0.9	275.8	55.2	4.1	2	9	47	PALE YEL. OR.	131.4	47.6	9.5	2.6	3.7
USDA 88-3	Riverside	11/9/1998	5	23.5	25.7	0.9	337.2	67.4	3.7	2	9	58	LT.-YEL. OR.	127.4	37.8	8.8	2.9	3.1
USDA 88-3	Riverside	11/30/1998	5	27.4	31.3	0.9	583.9	116.8	4.5	2.5	10	88	LT. ORANGE	229.6	39.3	8.9	1.9	4.7
USDA 88-3	Riverside	11/30/1998	5	26	30.5	0.9	519.5	103.9	4.2	2.5	11	106	LT-MED OR	217.9	41.9	9.4	1.9	4.9
USDA 88-3	Irvine	12/3/1998	9	41.2	58.3	0.7	976.7	108.5	11	3	12	70	DK.-BRT. OR.	493.7	50.5	10.8	1.0	10.8
USDA 88-3	Riverside	12/14/1998	10	53.3	63	0.8	1164.7	116.5	5	1.8	19.5	87	ORANGE	584.6	50.2	8.8	1.7	5.3
USDA 88-3	Riverside	12/14/1998	10	52.3	64	0.8	1174.3	117.4	5.8	1.8	21	128	ORANGE	603.5	51.4	9.1	1.5	6.0
USDA 88-3	Irvine	12/16/1998	10	50.4	70.3	0.7	1401.2	140.1	13	2	20	69	BRT. ORANGE	789.5	56.3	11.4	0.9	12.6
USDA 88-3	Irvine	10/28/1999	10	38.8	47.9	0.8	497.4	49.7	3.0	3.0	18	70	LT. ORANGE	208.9	42.0	9.5	NA	NA
USDA 88-3	Irvine	10/28/1999	10	40.2	48.3	0.8	514.5	51.5	3.0	3.0	21	66	LT. ORANGE	194.4	37.8	9.2	NA	NA
USDA 88-3	Lindcove	11/1/1999	10	49.3	62.7	0.8	1053.1	105.3	4.3	3	22	27	BRT. ORANGE	503.7	47.8	11.7	1.8	6.5
USDA 88-3	Lindcove	11/1/1999	10	49.3	65	0.8	1147.3	114.7	4.5	2.5	19	52	BRT. ORANGE	504.9	44.0	11.0	1.7	6.6
USDA 88-3	Irvine	11/29/1999	10	42.1	58.4	0.7	829.4	82.9	7.0	2.0	12	55	BRT. ORANGE	440.9	53.2	11.3	1.9	6.1
USDA 88-3	Irvine	11/29/1999	10	42.0	57.1	0.7	773.9	77.4	6.0	2.5	10	60	BRT. ORANGE	397.4	51.4	11.3	1.9	6.0
USDA 88-3	Lindcove	12/2/1999	10	49.3	63.9	0.8	1126.6	112.7	13	1.5	22	19	BRT. ORANGE	577.1	51.2	13.4	1.4	9.3
USDA 88-3	Lindcove	12/2/1999	10	51.2	67.3	0.8	1264.8	126.5	13	2	22	24	BRT. ORANGE	598.0	47.3	13.2	1.5	9.1
USDA 88-3	Lindcove	12/13/1999	10	48.8	68.4	0.7	1258.2	125.8	12.5	2	19	37	MED. ORANGE	585.1	46.5	13.4	1.4	9.6
USDA 88-3	Lindcove	12/13/1999	10	65.1	49.5	1.3	1124.6	112.5	12.8	3.5	21	33	MED. ORANGE	536.8	47.7	14.3	1.6	9.2
USDA 88-3	Irvine	12/15/1999	10	46.7	66.6	0.7	1169.6	117.0	9.5	2.0	14	126	MED. ORANGE	654.5	56.0	10.3	1.3	7.8
USDA 88-3	Irvine	12/15/1999	10	48.2	64.8	0.7	1109.7	111.0	9.0	1.5	18	113	MED. ORANGE	612.4	55.2	12.3	1.7	7.5
USDA 88-3	Coachella	10/17/2000	5	30	36.3	0.8	811.3	162.3	3.5	3.5	13	91	LT.-MED. OR	252.3	31.1	9.1	1.1	8.5

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USDA 88-3	Riverside	10/31/2000	10	50.1	62.7	0.8	1065.9	106.6	5	1.5	20	148	BRT. ORANGE	536.4	50.3	10.0	1.3	8.0
USDA 88-3	Irvine	11/2/2000	10	46	55.3	0.8	798.6	79.9	7	1	228	10	DK. ORANGE	402.0	50.3	13.5	1.5	9.1
USDA 88-3	Irvine	11/2/2000	10	45.9	55.6	0.8	785.0	78.5	6	1	13	232	MED.-DK. OR	347.0	44.2	12.6	1.7	7.5
USDA 88-3	Coachella	11/6/2000	10	62.7	83.7	0.7	2125.5	212.6	6.5	3	24	167	BRT. ORANGE	831.7	39.1	9.4	1.1	8.3
USDA 88-3	Riverside	11/20/2000	10	50.7	65.4	0.8	1184.4	118.4	12.5	2.5	18	142	BRT. ORANGE	637.7	53.8	11.5	1.0	11.3
USDA 88-3	Irvine	11/20/2000	10	48.6	60.3	0.8	995.9	99.6	12	1	11	163	MED. ORANGE	501.7	50.4	14.6	1.4	10.6
USDA 88-3	Irvine	11/20/2000	10	47.6	58.4	0.8	896.4	89.6	11.5	1	10	280	MED. ORANGE	420.2	46.9	14.2	1.5	9.5
USDA 88-3	Lindcove	11/21/2000	10	55.8	79.7	0.7	17.7	1917.6	12.5	2.5	25	61	MED. ORANGE	868.7			1.2	9.2
USDA 88-3	Riverside	12/10/2000	10	67.8	54.6	1.2	1313.3	131.3	12.5	4	24	174	BRT. ORANGE	705.7	53.7	11.8	1.0	12.2
USDA 88-3	Irvine	12/12/2000	10	39.9	48.1	0.8	838.6	83.9	12	1	12	194	BRT. ORANGE	443.6	52.9	13.2	1.0	13.3
USDA 88-3	Irvine	12/12/2000	10	48.6	61.1	0.8	1025.0	102.5	12	1	15	322	BRT. ORANGE	548.3	53.5	14.7	1.3	11.1
USDA 88-3	Lindcove	12/14/2000	10	60.5	69	0.9	1438.5	143.9	12	3	24	104	BRT. ORANGE	691.8	48.1	NA	NA	NA
USDA 88-3	Lindcove	12/14/2000	10	56.3	78.4	0.7	1810.6	181.1	12	3	25	92	BRT. ORANGE	869.1	48.0	NA	NA	NA
USDA 88-3	Riverside	10/28/2001	5	23.9	32.4	0.7	552.5	110.5	4.5	2.0	12	106	BRT. ORANGE	107.7	39.0	8.9	1.2	7.8
USDA 88-3	Riverside	10/28/2001	10	47.0	59.5	0.8	920.3	92.0	4.5	2.0	19	34	MED. ORANGE	384.8	41.8	9.6	1.2	8.0
USDA 88-3	Lindcove	10/30/2001	10	46.8	61.1	0.8	1001.0	100.1	11.0	2.0	17	39	BRT. ORANGE	519.5	51.9	12.3	1.5	8.5
USDA 88-3	Lindcove	10/30/2001	10	47.1	65.6	0.7	1122.6	112.3	10.5	2.0	21	19	BRT. ORANGE	488.2	43.5	12.9	1.5	8.3
USDA 88-3	Irvine	11/16/2001	10	45.5	62.8	0.7	994.1	99.4	11.0	2.0	16	130	BRT. ORANGE	468.2	47.1	10.8	1.1	9.7
USDA 88-3	Irvine	11/16/2001	10	49.0	68.7	0.7	1271.1	127.1	8.0	2.0	19	196	MED. ORANGE	617.5	48.6	10.1	1.0	9.8
USDA 88-3	Riverside	11/19/2001	5	27.2	36.7	0.7	820.1	164.0	9.0	2.0	9	44	BRT. ORANGE	417.7	50.9	10.2	1.1	9.3
USDA 88-3	Riverside	11/19/2001	10	55.2	70.6	0.8	1496.7	149.7	11.0	2.0	17	99	BRT. ORANGE	881.4	58.9	12.1	1.2	9.7
USDA 88-3	Lindcove	11/20/2001	9	43.7	60.5	0.7	1115.5	123.9	12.5	4.0	18	34	BRT. ORANGE	612.7	54.9	13.6	1.3	10.5
USDA 88-3	Lindcove	11/20/2001	10	52.9	72.1	0.7	1502.2	150.2	12.5	4.0	22	44	BRT. ORANGE	781.2	52.0	13.8	1.5	9.3
USDA 88-3	Irvine	12/7/2001	9	41.6	61.0	0.7	1081.6	120.2	12.7	2.0	17	125	BRT. ORANGE	520.8	48.2	11.9	1.0	12.0
USDA 88-3	Irvine	12/7/2001	10	50.0	69.6	0.7	1337.5	133.8	12.5	2.3	26	132	BRT. ORANGE	712.4	53.3	11.4	1.0	11.7
USDA 88-3	Riverside	12/12/2001	10	53.3	70.3	0.8	1462.5	146.3	11.0	2.0	19	132	V. BRT. OR.	581.0	39.7	12.4	1.0	12.0
USDA 88-3	Riverside	12/12/2001	10	54.3	66.7	0.8	1336.4	133.6	11.0	2.0	20	150	V. BRT. OR.	763.2	57.1	12.4	1.0	12.5
USDA 88-3	Lindcove	12/13/2001	10	50.3	67.8	0.7	1238.9	123.9	12.5	1.5	20	41	BRT. ORANGE	656.4	53.0	14.3	1.2	12.2
USDA 88-3	Lindcove	12/13/2001	10	49.9	73.3	0.7	1454.0	145.4	12.5	1.5	23	32	BRT. ORANGE	735.5	50.6	13.7	1.2	11.2
USDA 88-3	Lindcove	10/24/2002	10	49.8	62.2	0.8	1102.7	110.3	6.0	3.0	18	2	BRT. ORANGE	296.4	26.9	11.8	1.5	8.0
USDA 88-3	Lindcove	10/24/2002	10	47.6	65.1	0.7	1109.8	111.0	6.0	3.0	17	20	BRT. ORANGE	242.8	21.9	11.1	1.4	8.2
USDA 88-3	Riverside	10/24/2002	10	41.8	53.6	0.8	690.9	69.1	4.5	2.0	18	100	MED. ORANGE	211.5	30.6	8.9	1.8	5.0
USDA 88-3	Riverside	10/24/2002	10	47.4	57.9	0.8	900.1	90.0	4.5	2.0	11	130	MED. ORANGE	401.1	44.6	8.1	1.4	5.8
USDA 88-3	Irvine	10/24/2002	10	46.4	61.2	0.8	1002.1	100.2	5.0	2.0	11	224	BRT. ORANGE	480.1	47.9	10.0	1.5	6.7
USDA 88-3	Irvine	10/24/2002	10	47.7	69.8	0.7	972.4	97.2	5.0	2.0	13	170	MED. ORANGE	457.0	47.0	10.0	1.8	5.5
USDA 88-3	Coachella	10/31/2002	10	60.0	71.6	0.8	1523.7	152.4	7.0	3.5	33	280	MED. ORANGE	480.4	31.5	9.3	0.9	10.2
USDA 88-3	Lindcove	11/21/2002	10	51.7	62.7	0.8	1291.9	129.2	12.0	4.0	20	30	BRT. ORANGE	667.0	51.6	12.2	1.2	10.6

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USDA 88-3	Lindcove	11/21/2002	10	52.0	68.9	0.8	1403.7	140.4	12.0	3.5	16	22	BRT. ORANGE	683.7	48.7	NA	NA	NA
USDA 88-3	Riverside	11/21/2002	10	46.3	60.0	0.8	934.5	93.5	11.2	2.0	25	58	BRT. ORANGE	274.0	29.3	11.4	1.2	9.4
USDA 88-3	Riverside	11/21/2002	10	49.9	59.7	0.8	1016.7	101.7	10.9	2.0	22	136	BRT. ORANGE	395.8	38.9	11.2	1.2	9.0
USDA 88-3	Irvine	11/21/2002	10	42.5	60.7	0.7	903.9	90.4	11.0	2.0	15	180	BRT. ORANGE	392.7	43.4	11.9	1.1	10.7
USDA 88-3	Irvine	11/21/2002	10	51.0	65.3	0.8	1215.4	121.5	10.0	1.5	22	196	BRT. ORANGE	540.6	44.5	NA	NA	NA
USDA 88-3	Coachella	11/24/2002	10	61.4	76.0	0.8	1689.5	169.0	11.5	3.0	28	190	BRT. ORANGE	366.2	21.7	9.9	1.0	9.7
USDA 88-3	Irvine	12/7/2002	10	47.1	66.4	0.7	1156.1	115.6	12.5	2.0	16	174	BRT. ORANGE	578.9	50.1	12.0	0.9	13.4
USDA 88-3	Irvine	12/7/2002	10	54.1	70.0	0.8	1435.6	143.6	12.0	2.0	21	154	BRT. ORANGE	764.1	53.2	12.4	0.9	13.4
USDA 88-3	Riverside	12/9/2002	10	49.5	66.8	0.7	1176.5	117.7	12.5	2.0	21	176	BRT. ORANGE	563.9	47.9	12.6	1.0	12.4
USDA 88-3	Riverside	12/9/2002	10	53.4	65.4	0.8	1230.9	123.1	13.0	2.0	19	132	BRT. ORANGE	661.5	53.7	12.0	1.0	11.6
USDA 88-3	Coachella	12/11/2002	10	54.5	65.1	0.8	1118.7	111.9	13.0	4.0	30	80	MED. ORANGE	325.8	29.1	10.5	1.1	9.5
USDA 88-3	Lindcove	12/11/2002	10	53.7	71.7	0.7	1448.1	144.8	13.0	3.0	23	38	BRT. ORANGE	719.6	49.7	13.0	0.8	17.2
USDA 88-3	Lindcove	12/11/2002	10	53.1	74.1	0.7	1596.0	159.6	13.0	3.0	27	40	BRT. ORANGE	754.3	47.3	12.6	1.0	12.1
USDA 88-3	Coachella	10/9/2003	10	54.6	63.1	0.9	1009.4	100.9	3.5	4.5	27	120	YELLOW	106.8	10.6	8.3	1.0	8.7
USDA 88-3	Coachella	10/9/2003	10	59.8	70.8	0.8	1444.1	144.4	4.5	3.5	32	146	YEL.-LT. OR.	557.0	38.6	8.6	1.0	8.9
USDA 88-3	Coachella	10/9/2003	10	58.1	67.1	0.9	1295.3	129.5	3.5	2.5	23	111	PALE YEL. OR.	NA	NA	8.4	1.0	8.7
USDA 88-3	Coachella	10/9/2003	10	56.8	64.7	0.9	1205.0	120.5	4.0	3.0	21	372	YELLOW	525.5	43.6	8.8	1.1	8.3
USDA 88-3	Coachella	11/21/2003	6	35.7	45.0	0.8	940.3	156.7	8.0	3.0	18	96	ORANGE	297.1	31.6	9.0	1.7	5.4
USDA 88-3	Coachella	11/21/2003	10	61.1	71.5	0.9	1514.8	151.5	10.5	3.0	30	228	BRT. ORANGE	508.7	33.6	10.1	2.0	5.1
USDA 88-3	Coachella	10/28/2004	10	60.4	68.7	0.9	1523.9	152.4	4.5	2	21	186	MED. ORANGE	792.9	52.0	8.8	1.3	6.6
USDA 88-3	Coachella	10/28/2004	10	59.5	67	0.9	1405.2	140.5	4.5	2	21	121	LT. ORANGE	646.6	46.0	8.1	1.3	6.2
USDA 88-3	Coachella	10/28/2004	10	64.4	75.6	0.9	1846.9	184.7	5	3.5	22	148	LT. ORANGE	759.7	41.1	8.1	1.3	6.3
USDA 88-3	Coachella	10/28/2004	10	60.3	69.3	0.9	1553.1	155.3	5	2	20	110	LT. ORANGE	710.6	45.8	8.9	1.4	6.6