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STRAWBERRY VARIETY TRIALSARY

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Strawberry variety trials were conducted at the Moscow station during 1969. Twenty-seven varieties were evaluated for yield and quality. Of these, 17 varieties were named; 10 were numbered varieties from the Washington and Oregon stations. Certified virus-free plants were used for all varieties.

The yields of the varieties on several picking dates are given in Tables 1 and 2. Marshall, a widely-used commercial berry, can be used as a comparison for the others. Marshall has good shipping quality and produces a high yield. Of particular interest are the high yields from Trumpeter and Cascade. Trumpeter is an early berry, Cascade is later. They make a good pair under commercial plantings. Surecrop produced nearly as well as Marshall. Ogallala is an everbearer that has been used extensively in home plantings. It produces well, but the fruit is small, sour and of general poor quality. Nisqually is a better everbearer. It produces high yields over a long period of time. It has a heavy spring crop followed by a continuous crop until frost. Nisqually is highly-flavored, medium to large size with soft fruit. It is susceptible to June yellows. This defect is being studied in an attempt to get a yellows-free strain. Nisqually is recommended for home plantings and as an everbearing "U-Pick-Em" variety.

Most of the numbered varieties did not produce well under Moscow conditions. This may be due to their selection under western Washington and Oregon conditions.

Table 3 shows the soluble solid, pH, acidity and fruit size of the varieties evaluated in 1969. The soluble solids and acidity are flavor components. The soluble solids is a measure of sweetness. Marshall has a low percent soluble solids and a high acidity and is not considered a flavorful berry. A high soluble solids content will give a sweeter berry. It is difficult to evaluate flavor since individual preferences are important in the final acceptance of a variety.

Fruit size was generally good in 1969. Only Ogallala produced extremely small berries.

Table 4 lists some observations made on the varieties at harvest. These were made on the fruit as they came from the field. Most of the varieties were of acceptable quality. Unacceptable quality is noted in Table 4.

			T	ABLE 1				
Strawberry	Harvest	Dates	and	Yields.	1969 —	NAMED	VARIE	TIES

					На	vest Date					
	Variety	6/12	6/16	6/19	6/24	6/30	7/1	7/3	7/8	7/12	Total yield
	Tioga		225*	595	1980		1590	1190	920		6500
	Hood				252		515	1140	1205		3112
3	Marshall		1185	1485	2365	3060		735	1025		8670 3
	Quinault	645	1130	1335							3110
	Nisqually		760	1250	2805		1575				6290
	Robinson			840	1705	1763		1320	620		6248
	Talisman			700	1967			835	660		4162
	Northwest				455	1338		1850	1970		5613
	Ogallala	395	1445	1895	1598	1065					6398
	Shasta		195	595	1465		1713	735	765		5486
	Vale				917		1010		390		2310
-1	Trumpeter		1635	2020	2450		3365	470			9940 - 1
	Columbia				877		1665	2030	1965		6537
	Puget Beauty		225		2292		1790	245	500		5052
4	Surecrop		585	1885	2335		1940	745	630		8120
2	Cascade				620		763	1110	3005	4100	9598
	Stelemaster	555	1790	1605	1350		1551				6851

323* yield in grams

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TABLE 2 Strawberry Harvest Dates and Yields, 1969 — NUMBERED VARIETIES Harvest Date

Variety	6/12	6/16	6/19	6/24	6/30	7/1	7/3	7/8	Total yield
W1169							1715*	1285	3000
W1239				120	715		1115	1450	3400
W1205			360	1105	798		340	1625	4228
W1217				1245		2265	1135	880	5525
W1224			465	990			1020	1165	3640
W1165				247		915	690	1175	3027
US-Ore 2931				1657		993	720	1375	4745 2
US-Ore 2785				1347		2101	505		3953
US-Ore 2786				593		1123	1470	770	3956
US-Ore 2635				560		843	900	1345	3648

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*Yield in grams

TABLE 3

10/1

Percent Soluble Solids, pH, Total Acidity and Fruit Size of Strawberry Varieties Tested, 1969

		(10)			
		Soluble		1	Fruit 2
Variety		Solids	pH	Acidity	size
Tioga		9.0	3.9	17.2	++
Hood		10.5	3.7	21.2	+++
Marshall		8.0	3.7	21.2	+++
Quinault		10.0	3.5	19.2	++
Nisqually		9.0	3.9	18.5	++
Robinson		9.0	3.7	17.8	++
Talisman		8.0	3.5	15.8	++
Northwest		8.0	3.8	15.9	++
Ogallala		6.0	3.5	19.6	+
Shasta		8.5	3.8	14.5	+++
Vale		12.0	3.6	18.1	+
Trumpeter		8.0	3.5	22.3	+++
Columbia		10.0	3.6	16.9	++
Surecrop		8.0	3.8	22.5	++
Cascade		9.0	3.8	17.1	+++
Stelemaster		8.0	3.7	21.4	++
Puget Beauty		7.0	3.5	20.5	++
W1169		10.0	3.7	20.8	++
W1239		9.2	3.6	22.1	+++
W1205		10.0	3.5	19.0	++
W1217		6.5	3.7	17.4	++
W1224		8.0	3.7	18.0	+++
W1165		10.0	3.95	14.8	+++
US-Ore 2931		11.0	3.6	23.7	++
US-Ore 2785		9.8	3.3	23.7	+++
US-Ore 2786		10.0	3.7	21.0	+++
US-Ore 2635		10.0	3.7	17.5	++
1 Milliliters of	0.IN	Sodium	hydroxide	to titrate	10 grams

of fruit slurry.

2 +++ large, ++ medium, + small

TABLE 4

Strawberry Quality Notes Made at Harvest, 1969

Variety	Observations
Quinault	Sweet, blandish, good size. Ripe fruit are
	dark colored. Soft. Round to irregular shape.
Stelemaster	Mostly large, dark colored, one light side,
	long, sourish, not highly flavored.
Ogallala	Sour, not so good, small, round, light color.
rumpeter	Large, beautiful, fair to good flavor, uniform.
ioga	Large irregular, firm, sour, flavorful.
lisqually	Small to medium size, sweet, exceptional
	flavor.
Puget Beauty	Flat, medium size, good color, strong un-
	pleasant flavor.
Shasta	Large fruit, usual watered-down flavor.
urecrop	Large to medium, good color, sweet. Re-
1.000	frigerates well.
Aarshall	Large, green tip, sweet, a good berry.
V 1224	Large fruit, poor flavor, not sweet, acid.
Robinson	Large fruit, deep color, little flavor, some
	aftertaste.
alisman	Large, irregular fruit, very mild, sweet, not
	too good.
V 1205	Large, rough, sweetish.
V 1165	Large, long, many-seeded, good color, ir-
2	regular shape.
ascade	Large uniform fruit, not highly flavored.
olumbia	Medium sized fruit, colorful, irregular
10.0.0700	shaped, weak flavor.
05-Ore 2/86	Large to medium sized, very dark color,
1 1220	sweet, solid, looks and tastes like Sparkie.
V 1239	Large irregular, weak navor.
	Bough looking not accentable muchy tox
ale	ture medium to small size
IS-Ore 2921	Medium size dark color fair flavor acid
IS-Ore 2785	Large fruit
0-01e 2/05	Large muit.

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