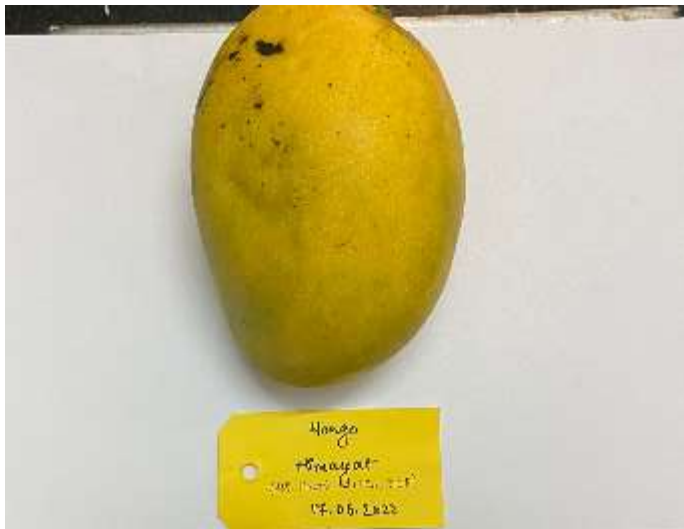


Data Collection of Fruit Varieties

Example : Mango Varieties







PUSA SURYA



PUSA SURYA



PUSA SURYA



PUSA SURYA



Comparative Study

S. No.	Variety	Pusa Surya	Gulabkhas	Baramasi	Amrapali	Kesar	Pusa Lalima
1	Fruit weight (kg)	0.112	0.119	0.087	0.18	0.147	0.146
2	Fruit length (cm)	7.6	8.5	7.6	8.5	9.6	8.5
3	Fruit width (cm)	6	5	4.3	6.2	5.5	5.7
4	Seed length (cm)	6	7.1	6.9	7.4	8.3	7.6
5	Seed width (cm)	3.4	2.9	2.7	4.6	3.5	3.5
6	Pulp weight (kg)	0.071	0.055	0.027	0.085	0.082	0.079
7	Peel weight (g)	0.028	0.029	0.010	0.027	0.036	0.028
8	Seed weight (g)	0.006	0.024	0.019	0.043	0.022	0.022
9	Pulp %	63.4	46.2	31.0	47.2	55.8	54.1
10	TSS (°Brix)	19.2	20.9	13.2	19.8	15.4	10.1
11	Date of observation	14-Jun-22	14-Jun-22	14-Jun-22	14-Jun-22	14-Jun-22	14-Jun-22
12	Date of harvest	14-Jun-22	14-Jun-22	14-Jun-22	14-Jun-22	15-Jun-22	14-Jun-22

Qualitative analysis

Variety	Dadamio (1P)	Arunika	Lal Mohan	Nandiraj	13-1 Rootstock	Stina	Gulabkhas	VNR Umang	Amrapali
Fruit weight (kg)	0.128	0.207	0.092	0.202	0.131	0.113	0.119	0.154	0.18
Fruit length (cm)	8.7	7.9	6.8	11.5	7.6	7.6	8.5	8.5	8.5
Fruit width (cm)	5.3	6.5	4.9	6.3	5.8	5.2	5	5.1	6.2
Seed length (cm)	7.5	6.4	6.2	10.9	7.2	6.6	7.1	7.3	7.4
Seed width (cm)	3.5	3.5	3.3	3.9	3.9	3	2.9	3.1	4.6
Pulp weight (kg)	0.068	0.121	0.043	0.096	0.061	0.069	0.055	0.075	0.085
Peel weight (kg)	0.024	0.044	0.02	0.036	0.027	0.018	0.029	0.008	0.027
Seed weight (g)	0.02	0.023	0.014	0.006	0.024	0.017	0.024	0.022	0.043
Pulp %	53.1	58.5	46.7	47.5	46.6	61.1	46.2	48.7	47.2
Seed %	15.6	11.1	15.2	3.0	18.3	15.0	20.2	14.3	23.9
Peel %	18.8	21.3	21.7	17.8	20.6	15.9	24.4	5.2	15.0
TSS (°Brix)	26	24.5	22.6	22	21.4	21	20.9	20.6	19.8
Date of observation	01-Jun-22	21-Jun-22	08-Jun-22	08-Jun-22	08-Jun-22	12-Jul-22	14-Jun-22	08-Jun-22	14-Jun-22

Qualitative analysis

Characters	VNR Umang	VNR Mongra	VNR Suvarna
Fruit weight (kg)	0.154	0.196	0.150
Fruit length (cm)	8.5	8	10.4
Fruit width (cm)	5.1	6	5.6
Seed length (cm)	7.3	7.2	8.7
Seed width (cm)	3.1	3.8	3.6
Pulp weight (kg)	0.075	0.104	0.070
Peel weight (kg)	0.008	0.044	0.041
Seed weight (g)	0.022	0.036	0.034
Pulp %	48.7	53.1	46.7
Seed %	14.3	18.4	22.7
Peel %	5.2	22.4	27.3
TSS (°Brix)	20.6	16.2	16.8
Date of observation	08-Jun-22	21-Jun-22	25-May-22

Ranking Based on TSS

Rank	Variety	TSS (°Brix)
1	Dadamio	26
2	Arunika	24.5
3	Lal Mohan	22.6
4	Nandiraj	22
5	13-1 Rootstock	21.4
6	Stina	21
7	Gulabkhas	20.9
8	VNR Umang	20.6
9	Amrapali	19.8
10	Himsagar	19.7
11	Hushn-aara	19.4
12	Bangan Palli	19.3
13	Dudh Penda	19.2
14	Pusa Surya	19.2

Rank	Variety	TSS (°Brix)
15	Chousa	19.1
16	BAIS-Baramasi	17.8
17	Sichan	17.5
18	Vastara (4P)	17.3
19	Himayat	16.7
20	VNR Mongra	16.2
21	Ambika	16.1
22	Kesar	15.4
23	Vastara(3P)	15.3
24	Pusa Pratibha	15.2
25	Amrapali	14.2
26	Baramasi	13.2
27	Anarkali	10.8
28	Pusa Lalima	10.1

Ranking Based on Pulp %

Rank	Variety	Fruit weight (kg)	Pulp %	Seed %	Peel %
1	Himayat	0.694	67.3	7.2	19.7
2	Sichan	0.295	66.8	8.1	19.3
3	Pusa Pratibha	0.227	65.6	11.5	18.9
4	Dudh Penda	0.143	64.3	8.4	23.1
5	Amrapali	0.145	63.4	13.1	15.9
6	Pusa Surya	0.112	63.4	5.4	25.0
7	Ambika	0.478	62.6	8.8	20.1
8	Stina	0.113	61.1	15.0	15.9
9	Anarkali	0.199	60.8	11.1	14.6
10	Arunika	0.207	58.5	11.1	21.3
11	Bangan Palli	0.457	56.2	8.3	20.6
12	Kesar	0.147	55.8	15.0	24.5
13	BAIS-Baramasi	0.107	55.1	14.0	22.4
14	Pusa Lalima	0.146	54.1	15.1	19.2
15	Chousa	0.394	53.6	132.0	23.1
16	Dadmio (1P)	0.128	53.1	15.6	18.8
17	VNR Mongra	0.196	53.1	18.4	22.4
18	Vastara (4P)	0.274	52.6	23.7	18.2
19	Vastara(3P)	0.233	51.9	18.0	21.0
20	Himsagar	0.213	50.7	16.4	26.8

OVERALL CONCLUSION

- Variety with highest TSS- Dadamio (26°Brix), having pulp % of 53.1.
- Himayat had highest pulp % of 67.3, which has TSS of 16.7 °Brix.
- Among VNR varieties evaluated, VNR Umang has highest TSS i.e. 20.6 °Brix with 48.7% of pulp.