

Table (1): Effects of plant oils on technological parameters of mulberry silkworm 4th instar, *Bombyx mori* L.

Treatment	Conc.	Fresh Cocoon weigh		Mean	Shell weight		Mean	Silk ratio		Mean	Silk filament length		Mean	Silk filament weight		Mean	Silk filament size		Mean
		2019	2020		2019	2020		2019	2020		2019	2020		2019	2020		2019	2020	
fenugreek oil	1%	1.37	1.51	1.44	0.25	0.28	0.27	18.68	21.31	20.00	995.04	839.36	917.2	0.19	0.17	0.18	1.7	1.84	1.77
	2%	1.31	1.56	1.43	0.25	0.32	0.29	19.32	20.79	20.06	964.2	939.04	951.62	0.22	0.20	0.21	2.07	1.96	2.02
	3%	1.30	1.40	1.35	0.26	0.29	0.28	19.91	19.96	19.94	868.96	935.2	902.08	0.19	0.22	0.21	1.95	2.16	2.06
Pumpkin oil	1%	1.32	1.48	1.40	0.25	0.32	0.29	18.82	21.85	20.34	896.48	983.68	940.08	0.18	0.24	0.21	1.81	2.17	1.99
	2%	1.32	1.58	1.45	0.23	0.33	0.28	18.68	20.62	19.65	1046.08	987.2	1016.64	0.23	0.20	0.22	1.97	2.04	2.01
	3%	1.28	1.58	1.43	0.21	0.34	0.28	16.40	21.34	18.87	969.92	970.8	970	0.21	0.23	0.22	1.95	2.17	2.06
Sweet almond oil	1%	1.38	1.73	1.56	0.27	0.34	0.31	19.87	19.90	19.86	963.68	974.72	969.2	0.17	0.19	0.18	1.56	1.78	1.67
	2%	1.23	1.39	1.31	0.23	0.32	0.28	18.99	23.05	21.02	891.04	966.72	928.88	0.18	0.19	0.19	1.79	1.78	1.88
	3%	1.33	1.88	1.61	0.25	0.32	0.29	18.82	17.18	18	892.6	929.28	910.94	0.17	0.22	0.20	1.71	2.46	2.09
Control		1.33	1.50	1.42	0.24	0.30	0.27	20.43	20.27	20.35	794	1076	935	0.14	0.20	0.18	1.64	1.65	1.65
tween		0.95	0.23	0.59	0.20	0.34	0.27	17.72	21.27	19.50	991.68	961.68	976.68	0.21	0.20	0.21	1.89	1.85	1.87

Table (2): Effects of plant oils on technological parameters of mulberry silkworm 5th instar, *Bombyx mori* L.

Treatment	Conc.	Fresh Cocoon weigh		mean	Shell weight		mean	Silk ratio		mean	Silk filament length		mean	Silk filament weight		mean	Silk filament size		Mean
		2019	2020		2019	2020		2019	2020		2019	2020		2019	2020		2019	2020	
fenugreek oil	1%	1.12	1.45	1.29	0.25	0.33	0.29	22.35	22.86	22.61	995.04	908.48	951.76	0.19	0.20	0.20	1.7	1.99	1.85
	2%	1.2	1.65	1.43	0.25	0.35	0.30	20.66	21.15	20.91	964.2	771.68	867.94	0.22	0.29	0.26	2.07	3.32	2.70
	3%	1.19	1.71	1.45	0.19	0.38	0.29	16.08	22.28	19.18	868.96	935.36	902.16	0.19	0.22	0.21	1.95	2.17	2.60
Pumpkin oil	1%	1.18	1.6	1.39	0.24	0.33	0.29	20.6	20.63	21.44	896.48	976.96	936.72	0.18	0.25	0.22	1.81	2.26	2.04
	2%	1.15	1.42	1.29	0.23	0.32	0.28	20.04	22.82	21.43	1046.08	846.24	946.16	0.23	0.22	0.23	1.97	2.34	2.16
	3%	1.22	1.61	1.42	0.24	0.36	0.30	19.38	22.42	20.90	969.92	940.8	955.36	0.21	0.27	0.24	1.95	2.60	2.28
Sweet almond oil	1%	1.07	1.54	1.31	0.20	0.34	0.27	19.06	22.25	20.66	963.68	1009.8	986.74	0.17	0.25	0.21	1.56	2.25	1.91
	2%	1.07	1.63	1.35	0.22	0.34	0.28	20.17	20.29	20.23	891.04	942	916.52	0.18	0.24	0.21	1.79	2.25	2.02
	3%	1.07	1.43	1.25	0.24	0.31	0.28	22.62	21.98	22.30	892.6	1019.4	956	0.17	0.24	0.21	1.71	2.11	1.91
Control		1.08	0.95	1.02	0.22	0.23	0.23	23.43	24.17	23.80	794	959.5	876.75	0.14	0.23	0.20	1.64	2.17	1.91
tween		1.08	0.95	1.02	0.20	0.20	0.20	21.37	20.43	20.90	991.68	989.63	990.66	0.21	0.23	0.22	1.89	2.32	2.11

