

Table S1: Random effect prediction of population blocks and parameter estimates of main effects and interactions for naphthoquinone mixtures under ad libitum conditions.

<i>Term</i>	<i>BLUP/Estimate</i>	<i>Std Error</i>	<i>DFDen</i>	<i>t Ratio</i>	<i>Prob> t </i>
Population Block[1]	275.37	321.85	20.79	0.86	0.402
Population Block[2]	300.83	322.62	20.75	0.93	0.3618
Population Block[3]	-73.13	321.92	20.79	-0.23	0.8225
Population Block[4]	724.31	322.62	20.75	2.25	0.0358
Population Block[5]	332.86	322.62	20.75	1.03	0.3141
Population Block[6]	-1076.84	322.60	20.81	-3.34	0.0031
Population Block[7]	161.88	321.13	20.77	0.50	0.6195
Population Block[8]	165.11	321.85	20.79	0.51	0.6133
Population Block[9]	-119.89	321.43	20.75	-0.37	0.7129
Population Block[10]	-690.51	322.96	20.79	-2.14	0.0446
Juglone(Mixture)	6647.05	339.80	29.88	19.56	<.0001
1,4-Naphthoquinone(Mixture)	5221.82	339.80	29.88	15.37	<.0001
Plumbagin(Mixture)	4767.03	316.88	27.64	15.04	<.0001
Juglone*1,4-Naphthoquinone	-7270.80	1308.75	25.49	-5.56	<.0001
Juglone*Plumbagin	-4855.49	1262.85	25.02	-3.84	0.0007
1,4-Naphthoquinone*Plumbagin	-6065.19	1269.63	25.14	-4.78	<.0001
Juglone*1,4-Naphthoquinone*Plumbagin	10021.04	8789.28	25.07	1.14	0.265

Table S2: Random effect prediction of split plots and parameter estimates of main effects and interactions for naphthoquinone mixtures under simultaneous stress exposure.

<i>Term</i>	<i>BLUP/Estimate</i>	<i>Std Error</i>	<i>DFDen</i>	<i>t Ratio</i>	<i>Prob> t </i>
Whole Plots[1]	-575.96	450.16	14.27	-1.28	0.2211
Whole Plots[2]	379.51	450.61	14.13	0.84	0.4137
Whole Plots[3]	310.30	450.16	14.27	0.69	0.5017
Whole Plots[4]	79.01	444.15	15.16	0.18	0.8612
Whole Plots[5]	986.22	445.56	15.25	2.21	0.0425
Whole Plots[6]	141.25	450.27	14.22	0.31	0.7583
Whole Plots[7]	-26.32	446.61	14.85	-0.06	0.9538
Whole Plots[8]	210.75	446.53	14.89	0.47	0.6438
Whole Plots[9]	79.75	444.79	15.02	0.18	0.8601
Whole Plots[10]	-58.62	447.60	14.83	-0.13	0.8976
Whole Plots[11]	-290.92	450.17	14.24	-0.65	0.5284
Whole Plots[12]	-212.05	447.65	14.82	-0.47	0.6426
Whole Plots[13]	-433.91	446.53	14.89	-0.97	0.3467
Whole Plots[14]	-164.06	450.55	14.14	-0.36	0.7212
Whole Plots[15]	-147.08	453.01	13.66	-0.32	0.7503
Whole Plots[16]	211.95	448.67	14.44	0.47	0.6437
Whole Plots[17]	-57.95	476.77	12.05	-0.12	0.9053
Whole Plots[18]	82.79	445.56	15.25	0.19	0.855
Whole Plots[19]	-351.15	445.56	15.25	-0.79	0.4427
Whole Plots[20]	296.32	446.92	14.86	0.66	0.5175
Whole Plots[21]	-536.29	449.37	14.33	-1.19	0.2521
Whole Plots[22]	-645.85	447.61	14.83	-1.44	0.1698
Whole Plots[23]	-379.74	447.90	14.75	-0.85	0.4101
Whole Plots[24]	360.88	448.96	14.40	0.80	0.4346
Whole Plots[25]	650.35	443.89	15.14	1.47	0.1633
Whole Plots[26]	-450.20	447.77	14.81	-1.01	0.3308
Whole Plots[27]	-91.28	446.59	14.93	-0.20	0.8408
Whole Plots[28]	632.30	453.01	13.66	1.40	0.185

Juglone(Mixture)	6447.75	295.31	55.91	21.83	<.0001
1,4-Naphthoquinone(Mixture)	5137.20	295.83	55.96	17.37	<.0001
Plumbagin(Mixture)	4380.48	295.38	55.92	14.83	<.0001
Juglone*1,4-Naphthoquinone	-3024.96	1375.96	46.58	-2.20	0.0329
Juglone*Plumbagin	-2995.59	1343.95	42.43	-2.23	0.0312
Juglone*Dietary level	-1191.47	295.31	55.91	-4.03	0.0002
Juglone*Heat Stress level	-2927.53	295.31	55.91	-9.91	<.0001
1,4-Naphthoquinone*Plumbagin	429.22	1350.27	42.74	0.32	0.7521
1,4-Naphthoquinone*Dietary level	-14.65	295.83	55.96	-0.05	0.9607
1,4-Naphthoquinone*Heat Stress level	-2143.92	295.83	55.96	-7.25	<.0001
Plumbagin*Dietary level	-392.97	295.38	55.92	-1.33	0.1888
Plumbagin*Heat Stress level	-1607.82	295.38	55.92	-5.44	<.0001
Dietary level*Heat Stress level	3198809.40	3503890.00	42.48	0.91	0.3664
Juglone*1,4-Naphthoquinone*Plumbagin	-9811.49	9463.33	42.48	-1.04	0.3057
Juglone*1,4-Naphthoquinone*Dietary level	-4610.71	1375.96	46.58	-3.35	0.0016
Juglone*1,4-Naphthoquinone*Heat Stress level	69.72	1375.96	46.58	0.05	0.9598
Juglone*Plumbagin*Dietary level	-2178.32	1343.95	42.43	-1.62	0.1125
Juglone*Plumbagin*Heat Stress level	1264.48	1343.95	42.43	0.94	0.3521
Juglone*Dietary level*Heat Stress level	-3197723.00	3503871.00	42.48	-0.91	0.3666
1,4-Naphthoquinone*Plumbagin*Dietary level	-2605.30	1350.27	42.74	-1.93	0.0603
1,4-Naphthoquinone*Plumbagin*Heat Stress level	-507.70	1350.27	42.74	-0.38	0.7088
1,4-Naphthoquinone*Dietary level*Heat Stress level	-3198449.00	3503874.00	42.48	-0.91	0.3665
Plumbagin*Dietary level*Heat Stress level	-3198617.00	3503869.00	42.48	-0.91	0.3665
Juglone*1,4-Naphthoquinone*Plumbagin*Dietary level	3274.24	9463.33	42.48	0.35	0.7311
Juglone*1,4-Naphthoquinone*Plumbagin*Heat Stress level	7196.80	9463.33	42.48	0.76	0.4512
Juglone*1,4-Naphthoquinone*Dietary level*Heat Stress level	2508.55	1375.96	46.58	1.82	0.0747
Juglone*Plumbagin*Dietary level*Heat Stress level	1301.67	1343.95	42.43	0.97	0.3383
1,4-Naphthoquinone*Plumbagin*Dietary level*Heat Stress level	1424.62	1350.27	42.74	1.06	0.2973