

00809	31.0	28.0	20.0	28.0	29.0	22.0	29.0	25.0	26.0	25.0					
00810	21.0	25.0	29.0	23.0	27.0	27.0	28.0	29.0	27.0	32.0	30.0	25.0	25.0	24.0	26.0
00810	27.0	25.0	21.0	21.0	25.0	24.0	21.0	24.0	24.0	25.0					
00811	30.0	28.0	29.0	26.0	25.0	28.0	22.0	24.0	24.0	22.0	25.0	27.0	26.0	26.0	24.0
00811	28.0	22.0	22.0	23.0	23.0	27.0	28.0	22.0	21.0	23.0					
00812	22.0	25.0	21.0	21.0	24.0	22.0	25.0	26.0	22.0	25.0	26.0	30.0	26.0	24.0	27.0
00812	23.0	23.0	25.0	23.0	21.0	26.0	24.0	22.0	26.0	26.0					
00813	24.0	27.0	20.0	22.0	27.0	24.0	20.0	22.0	26.0	26.0	26.0	29.0	26.0	20.0	27.0
00813	21.0	23.0	22.0	28.0	22.0	22.0	22.0	25.0	22.0	20.0					
00814	22.0	25.0	24.0	22.0	20.0	25.0	26.0	25.0	24.0	23.0	26.0	23.0	23.0	21.0	24.0
00814	20.0	25.0	25.0	25.0	21.0	26.0	26.0	26.0	25.0	25.0					
00815	25.0	28.0	26.0	29.0	22.0	23.0	23.0	25.0	24.0	25.0	28.0	29.0	26.0	29.0	25.0
00815	30.0	28.0	27.0	28.0	23.0	24.0	24.0	25.0	25.0	27.0					
00816	23.0	22.0	22.0	23.0	20.0	22.0	22.0	26.0	22.0	19.0	28.0	26.0	27.0	26.0	26.0
00816	27.0	25.0	25.0	24.0	25.0	27.0	24.0	24.0	21.0	20.0					
00817	29.0	27.0	20.0	21.0	22.0	26.0	27.0	23.0	20.0	23.0	25.0	23.0	23.0	23.0	24.0
00817	24.0	28.0	19.0	21.0	21.0	27.0	24.0	25.0	20.0	20.0					
00818	20.0	25.0	22.0	26.0	25.0	25.0	23.0	24.0	18.0	24.0	23.0	24.0	25.0	23.0	24.0
00818	20.0	22.0	25.0	25.0	27.0	27.0	19.0	27.0	22.0	26.0					
00819	29.0	23.0	24.0	38.0	20.0	25.0	22.0	23.0	29.0	30.0	24.0	27.0	29.0	21.0	24.0
00819	25.0	22.0	25.0	23.0	21.0	27.0	25.0	24.0	26.0	24.0					
00820	21.0	22.0	27.0	20.0	30.0	26.0	25.0	23.0	25.0	26.0	27.0	27.0	30.0	28.0	28.0
00820	26.0	27.0	27.0	26.0	26.0	25.0	27.0	28.0	27.0	26.0					
00821	25.0	26.0	25.0	23.0	24.0	28.0	26.0	26.0	27.0	28.0	25.0	20.0	24.0	20.0	26.0
00821	28.0	28.0	25.0	24.0	26.0	28.0	24.0	23.0	24.0	28.0					
00822	24.0	24.0	22.0	25.0	26.0	22.0	27.0	22.0	24.0	23.0	25.0	27.0	31.0	25.0	27.0
00822	26.0	22.0	25.0	25.0	26.0	23.0	26.0	23.0	21.0	20.0					
00823	27.0	25.0	26.0	28.0	25.0	30.0	26.0	25.0	24.0	24.0					
00823	25.0	25.0	25.0	25.0	26.0	22.0	25.0	25.0	27.0	25.0	25.0	21.0	24.0	24.0	25.0
00824	24.0	27.0	25.0	26.0	22.0	22.0	27.0	23.0	22.0	29.0	26.0	27.0	27.0	27.0	26.0
00824	26.0	30.0	30.0	26.0	34.0	28.0	26.0	28.0	26.0	24.0					
00825	27.0	23.0	27.0	25.0	27.0	30.0	24.0	27.0	26.0	30.0	27.0	21.0	23.0	23.0	25.0
00825	29.0	28.0	28.0	28.0	25.0	24.0	27.0	22.0	22.0	22.0					
00826	20.0	26.0	24.0	24.0	25.0	25.0	28.0	27.0	25.0	26.0	29.0	27.0	26.0	23.0	26.0
00826	25.0	27.0	26.0	25.0	25.0	25.0	31.0	25.0	21.0	25.0					
00827	23.0	27.0	21.0	24.0	25.0	28.0	29.0	21.0	27.0	28.0	24.0	24.0	28.0	22.0	22.0
00827	30.0	25.0	23.0	23.0	24.0	29.0	29.0	27.0	21.0	29.0					
00828	27.0	27.0	27.0	27.0	25.0	28.0	27.0	26.0	28.0	29.0	25.0	25.0	27.0	27.0	27.0
00828	23.0	23.0	24.0	23.0	25.0	26.0	28.0	23.0	25.0	26.0					
00829	29.0	29.0	27.0	27.0	29.0	25.0	26.0	29.0	26.0	21.0	26.0	29.0	27.0	25.0	27.0
00829	27.0	27.0	29.0	29.0	25.0	27.0	29.0	27.0	29.0	29.0					
00830	25.0	27.0	25.0	25.0	20.0	26.0	26.0	24.0	22.0	26.0	26.0	26.0	26.0	26.0	28.0
00830	24.0	26.0	24.0	25.0	26.0	27.0	25.0	25.0	23.0	27.0					
00831	25.0	27.0	25.0	29.0	29.0	24.0	28.0	25.0	23.0	27.0	25.0	25.0	25.0	23.0	27.0
00831	25.0	21.0	21.0	28.0	24.0	28.0	26.0	25.0	27.0	27.0					
00832	27.0	27.0	23.0	25.0	25.0	28.0	27.0	24.0	26.0	26.0	27.0	29.0	27.0	27.0	29.0
00832	25.0	25.0	27.0	27.0	25.0	24.0	24.0	26.0	22.0	24.0					
00833	27.0	28.0	27.0	24.0	27.0	24.0	26.0	25.0	24.0	26.0	26.0	24.0	28.0	25.0	24.0
00833	23.0	24.0	26.0	24.0	24.0	24.0	25.0	27.0	27.0	25.0					
00834	28.0	20.0	24.0	26.0	26.0	28.0	29.0	26.0	29.0	28.0	25.0	29.0	29.0	25.0	27.0
00834	26.0	25.0	26.0	27.0	26.0	26.0	26.0	26.0	26.0	28.0					
00835	33.0	30.0	30.0	32.0	26.0	29.0	29.0	27.0	27.0	27.0	26.0	24.0	26.0	25.0	25.0
00835	26.0	27.0	27.0	25.0	25.0	28.0	27.0	26.0	27.0	28.0					
00836	26.0	25.0	27.0	28.0	27.0	25.0	28.0	24.0	23.0	24.0	25.0	25.0	27.0	23.0	26.0
00836	26.0	26.0	26.0	25.0	28.0	25.0	21.0	22.0	24.0	20.0					
00837	28.0	27.0	24.0	28.0	25.0	24.0	24.0	26.0	22.0	27.0	26.0	26.0	27.0	26.0	24.0
00837	26.0	26.0	26.0	24.0	26.0	24.0	25.0	25.0	26.0	26.0					
00838	24.0	24.0	22.0	24.0	20.0	26.0	28.0	24.0	22.0	24.0	24.0	24.0	26.0	24.0	24.0
00838	25.0	24.0	26.0	23.0	26.0	24.0	26.0	26.0	26.0	24.0					
00839	26.0	26.0	22.0	22.0	26.0	24.0	22.0	22.0	26.0	26.0	24.0	25.0	24.0	27.0	26.0
00839	24.0	24.0	22.0	22.0	24.0	24.0	20.0	24.0	26.0	24.0					
00840	26.0	29.0	27.0	29.0	24.0	26.0	29.0	26.0	28.0	25.0	27.0	22.0	29.0	25.0	22.0
00840	29.0	29.0	27.0	24.0	31.0	28.0	22.0	30.0	26.0	27.0					

00819	2.32	2.18	1.60	1.48	0.21	2.48	1.69	1.67	1.54	1.17					
00820	2.19	1.95	1.22	1.30	2.07	2.69	1.84	0.43	2.44	2.00	1.70	2.63	2.00	2.11	1.75
00820	2.77	2.26	1.96	1.96	1.81	1.84	1.52	1.43	0.89	0.58					
00821	2.44	1.81	1.64	1.39	0.92	2.14	2.27	2.23	1.89	1.00	2.20	2.60	1.63	1.80	0.73
00821	2.55	2.04	1.80	2.17	1.00	1.18	3.20	3.26	1.86	1.86					
00822	3.33	2.88	2.41	1.88	0.98	2.55	1.78	2.14	2.09	0.22	2.72	2.15	1.74	1.24	0.96
00822	3.27	3.64	3.68	2.60	1.21	2.91	2.38	2.30	2.19	1.60					
00823	3.60	2.24	2.08	0.64	3.23	3.09	2.60	2.08	0.93	0.60	2.68	2.76	2.04	3.42	3.24
00823	2.22	2.64	1.23	0.82	0.60	1.54	1.12	2.67	1.58	1.87					
00824	2.71	2.71	2.32	2.04	0.95	2.64	1.93	2.00	1.68	2.93	2.46	2.22	2.22	2.00	2.30
00824	2.08	1.77	1.53	1.46	0.28	2.39	2.79	2.36	2.00	0.96					
00825	2.26	2.30	1.96	2.08	1.89	2.13	2.42	1.96	1.42	1.50	3.00	2.44	2.30	2.13	1.24
00825	2.21	1.96	1.82	1.29	3.28	2.96	2.11	2.27	1.77	0.95					
00826	2.83	2.23	2.00	1.73	1.27	2.84	2.80	2.27	2.19	2.04	2.30	2.39	2.29	2.00	2.67
00826	2.64	2.26	2.12	2.16	2.08	2.40	1.87	2.32	2.38	1.80					
00827	2.39	1.85	2.33	1.92	0.64	3.00	2.31	2.03	1.04	0.50	3.21	2.75	2.14	2.18	0.95
00827	2.07	2.60	2.70	2.35	1.54	2.86	2.72	2.63	1.97	1.79					
00828	2.70	2.67	2.41	1.67	1.24	2.96	2.89	2.19	1.86	1.62	2.72	2.72	2.15	1.96	1.52
00828	2.87	2.65	2.17	1.13	0.20	2.73	2.14	2.13	1.88	1.96					
00829	2.34	2.24	2.26	1.89	1.55	1.88	1.77	1.46	1.19	0.84	1.70	1.60	1.34	1.41	1.32
00829	2.15	1.96	1.66	1.66	2.48	2.04	1.90	1.74	1.56	1.21					
00830	3.04	2.37	1.56	1.56	1.50	2.62	2.17	2.36	2.35	2.15	1.77	2.96	2.65	2.39	2.58
00830	2.75	2.19	2.00	1.76	3.36	1.85	1.96	1.60	1.43	2.07					
00831	2.84	2.41	2.48	1.93	1.83	2.96	2.29	2.16	1.70	1.19	3.12	2.72	2.52	2.35	0.19
00831	2.48	2.33	1.76	1.96	0.88	2.57	2.69	2.44	2.04	1.56					
00832	2.67	2.30	2.17	1.84	1.60	2.74	2.92	2.69	2.38	2.80	2.31	1.67	1.19	2.52	3.17
00832	2.48	2.28	1.89	1.92	0.81	2.17	2.08	1.62	1.73	1.42					
00833	2.56	2.32	2.15	1.63	0.59	2.75	2.31	2.20	1.38	3.04	2.58	2.75	1.89	2.84	3.50
00833	2.39	2.21	2.04	1.96	1.88	1.17	3.36	2.67	2.19	2.08					
00834	2.18	2.35	1.67	1.23	2.54	1.89	2.21	1.77	1.28	1.86	2.88	2.41	2.38	2.60	2.19
00834	2.54	2.64	2.27	1.85	1.85	1.85	2.54	2.27	1.96	3.25					
00835	2.06	1.93	1.73	1.03	1.81	2.72	2.72	2.89	2.30	3.00	2.42	2.46	2.12	2.16	1.92
00835	2.65	2.48	2.41	2.24	2.20	1.68	0.96	2.62	1.63	1.50					
00836	2.62	2.40	1.07	0.89	1.70	2.84	2.21	1.96	1.52	1.75	2.60	2.64	1.96	1.87	2.46
00836	2.38	2.85	1.81	1.72	0.93	2.20	2.29	1.81	1.13	1.15					
00837	2.25	2.22	2.38	2.00	1.92	2.42	2.04	1.65	1.95	1.07	2.50	2.35	2.11	2.15	2.38
00837	2.62	2.35	2.00	0.33	2.29	2.12	2.04	1.77	2.58	1.00					
00838	2.79	2.67	2.68	2.25	2.65	2.65	2.07	2.25	2.14	1.79	2.54	2.00	1.96	2.21	1.79
00838	2.72	2.42	2.15	2.30	2.08	1.81	1.58	1.54	1.60	2.27					
00839	2.08	1.69	1.55	2.04	1.42	2.68	2.15	2.25	1.81	1.77	2.50	2.23	2.17	1.76	2.71
00839	2.04	1.88	1.59	0.83	1.00	2.17	2.10	1.63	1.38	0.34					
00840	2.31	2.31	1.93	2.90	3.67	2.27	1.90	1.88	1.54	0.56	2.04	2.00	3.84	3.52	3.10
00840	2.00	2.17	2.30	2.17	2.87	2.07	1.13	2.15	1.26	3.17					

00801	30.0	26.0	25.0	21.0	25.0	27.0	28.0	27.0	25.0	29.0	29.0	27.0	29.0	22.0	25.0
00801	29.0	27.0	23.0	28.0	26.0	28.0	28.0	25.0	25.0	30.0					
00802	29.0	29.0	28.0	27.0	29.0	31.0	25.0	29.0	29.0	30.0	29.0	29.0	28.0	30.0	27.0
00802	31.0	29.0	25.0	27.0	29.0	22.0	26.0	23.0	25.0	23.0					
00803	28.0	27.0	28.0	28.0	28.0	28.0	26.0	25.0	25.0	24.0	28.0	22.0	26.0	25.0	23.0
00803	27.0	24.0	28.0	27.0	26.0	28.0	27.0	28.0	30.0	25.0					
00804	22.0	24.0	25.0	24.0	23.0	30.0	29.0	27.0	27.0	24.0	26.0	23.0	25.0	27.0	26.0
00804	25.0	28.0	24.0	18.0	25.0	22.0	23.0	27.0	24.0	24.0					
00805	26.0	25.0	27.0	22.0	24.0	22.0	26.0	26.0	22.0	25.0	25.0	28.0	26.0	27.0	24.0
00805	26.0	27.0	25.0	26.0	26.0	29.0	27.0	27.0	28.0	25.0					
00806	28.0	27.0	29.0	25.0	25.0	21.0	25.0	26.0	30.0	27.0	27.0	28.0	18.0	27.0	25.0
00806	29.0	27.0	27.0	28.0	25.0	28.0	24.0	29.0	27.0	25.0					
00807	24.0	30.0	28.0	29.0	31.0	28.0	26.0	24.0	28.0	27.0	26.0	27.0	29.0	29.0	31.0
00807	29.0	25.0	27.0	28.0	18.0	26.0	27.0	29.0	24.0	22.0					
00808	26.0	28.0	26.0	26.0	22.0	28.0	28.0	28.0	26.0	24.0	25.0	28.0	28.0	25.0	28.0
00808	26.0	29.0	28.0	26.0	26.0	28.0	27.0	28.0	26.0	25.0					
00809	28.0	28.0	26.0	24.0	27.0	26.0	26.0	28.0	26.0	18.0	25.0	26.0	27.0	20.0	22.0

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008342.8902.9502.8001.8501.4901.8402.9102.4001.8903.910
008353.1802.8902.0801.0501.9103.8203.5503.5503.2103.4802.9002.0502.2001.5001.810
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008363.7301.9500.9500.9200.4201.4601.1000.7000.4902.420
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008372.8802.7302.0500.1503.0202.0002.4501.8902.1400.690
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00801 2.50 2.46 2.71 1.86 1.32 2.40 2.07 1.72 1.65 1.30 2.24 2.41 1.97 0.95 1.24
00801 3.00 2.43 2.10 2.11 1.67 2.00 2.07 1.96 1.36 2.19
00802 3.24 2.17 1.93 1.30 3.00 2.19 2.15 1.45 3.00 1.28 3.00 2.55 2.25 2.06 3.00
00802 2.34 2.21 2.20 1.19 0.38 3.14 2.58 2.44 2.57 2.95
00803 2.81 2.25 3.15 3.08 2.68 2.54 2.30 2.04 1.82 1.75 2.68 2.72 2.35 2.39 2.04
00803 2.93 3.00 2.32 2.30 1.92 2.64 2.44 2.29 2.03 0.84
00804 2.53 2.62 2.54 1.96 1.42 2.84 1.39 1.12 1.17 0.62 2.24 1.75 1.54 1.45 0.96
00804 1.18 1.17 0.92 2.80 1.29 3.14 2.87 2.56 2.29 2.00
00805 2.62 2.24 1.63 1.41 2.68 2.82 1.58 1.58 1.27 2.78 2.52 2.00 2.19 1.52 1.42
00805 3.50 2.31 1.93 1.44 1.35 3.14 2.87 2.65 2.23 2.10
00806 1.50 1.67 1.14 1.19 2.38 2.56 1.79 2.50 1.41 2.35 1.90 2.56 1.93 1.81 1.61
00806 2.75 2.67 2.82 2.50 1.96 2.31 1.88 1.54 1.35 3.50
00807 2.21 1.63 1.32 0.97 0.52 0.32 1.79 0.81 0.63 2.43 2.27 1.93 1.86 1.35 0.50
00807 2.38 2.16 1.74 1.68 2.00 2.84 2.27 2.04 1.93 2.08
00808 2.96 2.29 2.46 2.08 2.32 1.21 2.84 2.32 1.96 1.72 2.35 1.66 1.39 1.57 1.38
00808 2.29 1.93 1.88 2.04 3.12 1.82 2.27 2.03 1.93 1.25
00809 2.73 1.92 1.61 1.54 2.00 2.16 2.11 2.65 1.79 1.25 1.00 1.44 1.00 0.62 0.59
00809 2.19 1.76 1.92 1.65 1.77 1.46 1.31 0.72 1.86 2.05
00810 2.04 2.00 3.10 3.52 3.82 3.17 2.07 1.13 2.76 2.32 2.31 2.90 3.67 2.31 2.26
00810 2.87 2.00 2.17 2.30 2.17 2.27 1.90 1.88 1.54 0.56
00811 2.27 2.25 2.18 2.32 1.97 2.11 1.88 2.00 1.14 1.54 1.27 0.50 2.65 1.42 0.08
00811 2.63 2.00 1.59 0.65 2.26 1.89 0.50 1.41 1.00 0.87
00812 2.43 2.75 1.64 0.95 1.95 2.50 2.16 1.69 1.86 2.48 1.83 1.73 1.79 1.15 2.15
00812 2.74 1.96 1.63 0.80 1.32 2.65 0.93 1.63 1.09 0.88
00813 2.96 1.52 2.05 1.73 0.96 2.32 1.59 2.46 2.00 1.36 3.12 2.45 2.23 2.45 1.69
00813 2.48 1.83 0.95 3.32 2.95 3.05 2.82 2.40 2.59 2.13
00814 2.50 2.13 2.09 2.00 0.96 3.65 2.72 2.56 2.20 2.43 2.31 2.04 1.73 1.52 0.76
00814 2.27 1.96 1.83 1.81 0.00 2.52 2.12 1.96 1.83 1.65
00815 1.87 1.48 1.00 1.75 1.40 1.71 1.13 0.92 2.19 2.30 2.26 1.75 1.04 1.57 1.15
00815 2.07 1.72 1.65 0.96 0.72 1.73 1.18 1.00 0.89 0.83
00816 3.10 1.77 1.50 1.13 0.75 0.00 0.00 2.23 2.52 2.50 1.25 0.88 0.35 1.84 2.15
00816 1.93 1.68 1.64 1.38 1.32 2.19 2.29 2.31 1.62 1.45
00817 2.28 2.00 2.10 1.57 1.32 1.04 2.30 1.73 1.55 1.09 2.40 1.91 1.74 1.35 1.60
00817 1.25 0.71 0.45 2.00 1.44 1.71 2.50 1.84 2.30 2.10
00818 2.80 1.72 1.59 2.91 1.40 2.08 2.13 1.83 2.40 1.67 1.48 2.50 2.04 1.87 1.75
00818 2.75 2.18 0.76 1.43 1.76 2.04 2.63 1.70 1.59 2.07
00819 2.21 2.48 2.00 1.52 0.80 2.28 2.27 1.87 2.79 2.40 2.42 2.15 1.86 2.10 1.43

00839 49.0 45.0 35.0 20.0 24.0 52.0 42.0 39.0 36.0 08.0
00840 63.0 84.0 88.0 67.0 52.0 59.0 55.0 49.0 43.0 14.0 55.0 44.0 50.0 88.0 84.0
00840 78.0 63.0 62.0 52.0 89.0 58.0 36.0 95.0 56.0 34.0

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008252.5502.7802.3102.0003.5202.6202.4602.3801.5300.780
008262.6802.2801.4000.8000.7103.3503.7002.1202.4002.5803.1801.8002.3001.3003.250
008263.0802.9502.4302.3101.7902.8603.0802.7002.2501.780
008272.0201.6502.1201.7500.3903.3002.6100.6500.3701.8102.9802.2204.1001.7000.610
008273.0003.4502.8001.9501.5004.2503.9103.4102.8203.250
008283.7102.9603.4601.1201.3904.0704.2102.9502.2002.8802.9103.1202.5601.5701.220
008283.0502.1501.9000.9200.1801.9102.9001.6401.7202.400
008292.2001.7002.2701.7501.4101.8001.4201.0500.6001.0501.5601.6501.3601.3101.190

BETWEEN CHARACTER(4,12)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.65617200E+05	.22808600E+05
TREATMENTS	11	-.35689100E+05	-.32444636E+04
ERROR	22	.76381000E+05	.34718636E+04
TOTAL	35	.10630910E+06	.30374028E+04

BETWEEN CHARACTER(5, 6)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.63927200E+02	.21962600E+02
TREATMENTS	11	-.19045000E+01	-.17312636E-00
ERROR	22	.11920620E+03	.54184636E+01
TOTAL	35	.18122890E+03	.51779685E+01

BETWEEN CHARACTER(5, 7)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.16055900E+02	.80279500E+01
TREATMENTS	11	.13400000E-01	.12181818E-02
ERROR	22	.15214100E+02	.69155000E-00
TOTAL	35	.31283400E+02	.89381142E-00

BETWEEN CHARACTER(5, 8)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.87444000E-00	.43722000E-00
TREATMENTS	11	.54440000E-01	.49490000E-02
ERROR	22	.28289000E+01	.12858636E-00
TOTAL	35	.37577800E+01	.10736514E-00

BETWEEN CHARACTER(5, 9)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.26074800E+02	.13037400E+02
TREATMENTS	11	.24889000E+01	.22626363E-00
ERROR	22	.80728600E+02	.36694818E+01
TOTAL	35	.10929230E+03	.31226371E+01

BETWEEN CHARACTER(5,10)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.38567000E+02	.19283500E+02
TREATMENTS	11	-.33789000E+01	-.30717272E-00
ERROR	22	.41926400E+02	.19057454E+01
TOTAL	35	.77114500E+02	.22032714E+01

BETWEEN CHARACTER(5,11)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.25990300E+04	.12995150E+04
TREATMENTS	11	.29109000E+03	.26462727E+02
ERROR	22	.45261100E+04	.20573227E+03
TOTAL	35	.74162300E+04	.21139228E+03

BETWEEN CHARACTER(5,12)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.32145800E+02	.16072900E+02
TREATMENTS	11	-.27734000E+01	-.25212727E-00
ERROR	22	.61147600E+02	.27794363E+01
TOTAL	35	.90520000E+02	.25862857E+01

BETWEEN CHARACTER(6, 7)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.13108590E+03	.65542950E+02
TREATMENTS	11	.69780000E+02	.63436363E+01
ERROR	22	-.28962500E+02	-.13164772E+01
TOTAL	35	.17190340E+03	.49115257E+01

BETWEEN CHARACTER(6, 8)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.23824450E+02	.11912225E+02
TREATMENTS	11	.11541120E+02	.10491927E+01
ERROR	22	.11315555E+03	.51434340E+01
TOTAL	35	.14852112E+03	.42434605E+01

BETWEEN CHARACTER(6, 9)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.43478800E+03	.21739400E+03
TREATMENTS	11	.30600390E+03	.27818536E+02
ERROR	22	.22707520E+04	.10321600E+03
TOTAL	35	.30115439E+04	.86044111E+02

BETWEEN CHARACTER(6,10)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.39612300E+03	.19806150E+03
TREATMENTS	11	.29687600E+03	.26988727E+02
ERROR	22	.49567400E+03	.22530636E+02
TOTAL	35	.11886730E+04	.33962085E+02

BETWEEN CHARACTER(6,11)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.23056650E+05	.11528325E+05
TREATMENTS	11	.22999100E+05	.20900272E+04
ERROR	22	.88050490E+05	.40022950E+04
TOTAL	35	.13410624E+06	.32316068E+04

BETWEEN CHARACTER(6,12)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.16862900E+03	.84314500E+02
TREATMENTS	11	.86665000E+02	.78786363E+01
ERROR	22	-.27003900E+03	-.12274500E+02
TOTAL	35	-.14745000E+02	-.42128571E-00

BETWEEN CHARACTER(7, 8)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.71083000E-00	-.35541500E-00
TREATMENTS	11	-.23333000E-00	-.21211818E-01
ERROR	22	-.65091700E+01	-.29587136E+00
TOTAL	35	-.74533300E+01	-.21295228E-00

BETWEEN CHARACTER(7, 9)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.37540900E+02	.18770450E+02
TREATMENTS	11	.18263400E+02	.16603090E+01
ERROR	22	-.53990900E+02	-.24541318E+01
TOTAL	35	.18134000E+01	.51811428E-01

BETWEEN CHARACTER(7,10)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.10815670E+03	.54078350E+02
TREATMENTS	11	.49636700E+02	.45124272E+01
ERROR	22	.43363300E+02	.19710590E+01
TOTAL	35	.70115670E+03	.57473342E+01

BETWEEN CHARACTER(7,11)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.80639600E+04	.40319800E+04
TREATMENTS	11	.49425400E+04	.44941272E+03
ERROR	22	-.17947600E+04	-.81580000E+02
TOTAL	35	.11212740E+05	.32036400E+03

BETWEEN CHARACTER(7,12)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.12457500E+03	.62287500E+02
TREATMENTS	11	.23450000E+02	.21318181E+01
ERROR	22	.77525000E+02	.35228636E+01
TOTAL	35	.22555000E+03	.64442857E+01

BETWEEN CHARACTER(8, 9)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.15238610E+02	.76193050E+01
TREATMENTS	11	.10734440E+02	.97585812E+00
ERROR	22	.98284720E+02	.44720331E+01
TOTAL	35	.12435778E+03	.35530794E+01

BETWEEN CHARACTER(8,10)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.42947200E+01	.21473600E+01
TREATMENTS	11	.24055600E+01	.21868727E+00
ERROR	22	.13755280E+02	.62524000E+00
TOTAL	35	.20455560E+02	.58444457E+00

BETWEEN CHARACTER(8,11)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.20461000E+02	.10330500E+02
TREATMENTS	11	.53078000E+02	.48252727E+01
ERROR	22	.38388300E+04	.17449268E+03
TOTAL	35	.39125700E+04	.11178794E+03

BETWEEN CHARACTER(8,12)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	-.83541700E+01	-.41770850E+01
TREATMENTS	11	-.39687000E+00	-.38060909E-01
ERROR	22	-.20529160E+02	-.93314363E-00
TOTAL	35	-.29280000E+02	-.83657142E-00

BETWEEN CHARACTER(9,10)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.15442360E+03	.77211800E+02
TREATMENTS	11	.60868600E+02	.55335090E+01
ERROR	22	.35369980E+03	.16077263E+02
TOTAL	35	.56899200E+03	.16256914E+02

BETWEEN CHARACTER(9,11)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.75297500E+04	.37648750E+04
TREATMENTS	11	.37337700E+04	.33916090E+03
ERROR	22	.74424250E+05	.33829204E+04
TOTAL	35	.85684770E+05	.24481362E+04

BETWEEN CHARACTER(9,12)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.97080000E-00	.48540000E-00
TREATMENTS	11	-.24834200E+02	-.22576845E+01
ERROR	22	-.29595410E+03	-.13452450E+02
TOTAL	35	-.31981750E+03	-.91376428E+01

BETWEEN CHARACTER(10,11)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.17332050E+05	.86660250E+04
TREATMENTS	11	.20550120E+05	.18681927E+04
ERROR	22	.14741620E+05	.67007263E+03
TOTAL	35	.52623790E+05	.15085368E+04

BETWEEN CHARACTER(10,12)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.22551660E+03	.11275830E+03
TREATMENTS	11	.48669100E+02	.44246636E+01

BETWEEN CHARACTER(11,12)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.18498470E+05	.92492250E+04
TREATMENTS	11	.56025200E+04	.50932000E+03
ERROR	22	-.76187000E+04	-.34621363E+03
TOTAL	35	.16497390E+05	.47097971E+03

GENOTYPIC VARIANCE-COVARIANCE MATRIX

.19010519E+03	.10670804E+04	-.13638106E+03	-.68938985E+05	.13378318E+02	-.41475196E+03	.51879560E+02	-.22926787E+02
-.39241233E+03	-.16847696E+03	-.57001263E+04	.30114136E+05				
.10670804E+04	.49540378E+02	-.14905318E+02	-.21921333E+04	.33512590E+01	.30634090E+02	.34223485E+01	.69090757E-00
.13105424E+02	.13734681E+02	.21476787E+04	.13752393E+02				
-.13638106E+03	-.14905318E+02	.32120909E+01	.11957590E+04	-.27538233E-00	-.32919393E+01	-.93485000E-00	.28157576E-01
.79416666E-01	-.39903939E+01	-.49308484E+03	-.86895454E-00				
-.68938985E+05	-.31921333E+04	.11957590E+04	-.24553406E+06	-.55072454E+03	-.90901363E+03	-.59583439E+03	.56116333E+02
.10121606E+04	-.86252878E+03	-.11383716E+06	-.22387757E+04				
.13378318E+02	.33512590E+01	-.27538233E-00	-.95072454E+03	-.16472212E-00	-.18638666E+01	-.23011060E-00	-.41212424E-01
-.11477393E+01	-.73763939E-00	-.59756515E+02	-.10105212E+01				
-.41475196E+03	.30634090E+02	-.32819393E+01	-.59901363E+03	-.18638666E+01	-.24301712E+02	.25533712E+01	-.13647471E+01
-.25132488E+02	.14860303E+01	-.63715591E+03	.67177121E+01				
.51879560E+02	.34223485E+01	-.93485000E-00	-.59583439E+03	-.23011060E-00	.25533712E+01	-.29775760E-01	.91552181E-01
.13714803E+01	.84712272E-00	.17699757E+03	-.46401515E-00				
-.22926787E+02	.69090757E-00	.28157576E-01	.56116333E+02	-.41212424E-01	-.13647471E+01	.91553181E-01	-.66388863E-01
-.11653916E+01	-.13551757E-00	-.56555803E+02	.29902757E-00				
-.39241233E+03	.13105424E+02	.79416666E-01	.10121606E+04	-.11477393E+01	-.25132488E+02	.13714803E+01	-.11653916E+01
-.20736057E+02	-.35145848E+01	-.10145865E+04	.37316015E+01				
-.16347696E+03	.13734681E+02	-.30903939E+01	-.86252878E+03	-.73763939E-00	.14860303E+01	.84712272E-00	-.13551757E-00
-.35145848E+01	.49430388E+01	-.39937303E+03	.77350606E-00				
-.57001263E+04	.21476787E+04	-.49308484E+03	-.11383716E+06	-.59756515E+02	-.63715591E+03	.17699757E+03	-.56555803E+02
-.10145865E+04	.39937303E+03	-.12056500E+05	.28517787E+03				
.30114136E+03	.13752393E+02	-.86895454E-00	-.22387757E+04	-.10105212E+01	.67177121E+01	-.46401515E-00	.29902757E-00
.37316015E+01	.77350606E-00	.28517787E+03	.62752273E-00				

PHENOTYPIC VARIANCE-COVARIANCE MATRIX

.25207666E+05	.85186848E+03	-.13156545E+03	-.76445272E+05	.20264000E+02	-.98291515E+02	.35180818E+02	-.86023636E+01
-.12763296E+03	-.11087606E+03	.11083333E+04	.22564424E+03				
.85186848E+03	.88729787E+02	-.18785363E+02	-.51868393E+04	.15050484E+01	.27045454E+01	.42727272E+01	-.60202121E-00
-.17037121E+02	.92406263E+01	.11198060E+04	.15967424E+02				
-.13156545E+03	-.18785363E+02	.55520606E+01	.11667575E+04	-.31919090E-00	.31566666E-00	-.99293090E-00	.19596060E-00
.36638878E+01	-.30260000E+01	-.29949696E+03	-.17982424E+01				
-.76445272E+05	-.51868393E+04	.11667575E+04	-.49766060E+06	-.13067909E+03	.18318181E+02	-.22931878E+03	.39696181E+02
.99091969E+03	-.42909393E+03	-.72954121E+05	-.10814878E+04				
.20264000E+02	.15050484E+01	-.31919090E-00	-.13067909E+03	.24350181E-00	-.57712121E-01	.40606060E-03	.16496969E-02
.75421212E-01	-.10239090E-00	.89209090E+01	-.84042424E-01				
-.98291515E+02	.27045454E+01	.31566666E-00	.18318181E+02	-.57712121E-01	.17173090E+02	.21145454E+01	.34973090E-00
.92728454E+01	.89962424E+01	.69694242E+03	.26262121E+01				
.35180818E+02	.42727272E+01	-.99293030E-00	-.22931878E+03	.40606060E-03	.21145454E+01	.59595757E-00	-.70706060E-02
.55343636E-00	.15041424E+01	.14980424E+03	.71060606E-00				
-.86023636E+01	-.60202121E-00	.19596060E-00	.39696181E+02	.16496969E-02	.34973090E-00	-.70706060E-02	.15824939E-01
.32528606E-00	.72895757E-01	.16094242E+01	-.12020303E-01				
-.12763296E+03	-.11037121E+02	.36638878E+01	.99091969E+03	.75421212E-01	.92728454E+01	.55343636E-00	.32528606E-00
.89881757E+01	.18445030E+01	.11305363E+02	-.75255151E-00				
-.11087606E+03	.92406263E+01	-.30260000E+01	-.42909393E+03	-.10239090E-00	.89962424E+01	.15041424E+01	.72895757E-01
.18445030E+01	.85390818E+01	.62273090E+03	.14740212E+01				
.11083333E+04	.11198060E+04	-.29949696E+03	-.72954121E+05	.89209090E+01	.69694242E+03	.14980424E+03	.16094242E+01
.11305363E+03	.62273090E+03	.59738242E+05	.16077393E+03				

ENVIRONMENTAL VARIANCE-COVARIANCE MATRIX

Table of environmental variance-covariance matrix with 12 columns and 12 rows of numerical values in scientific notation.

PHENOTYPIC CORRELATIONS

Table of phenotypic correlations with 12 columns and 12 rows of numerical values.

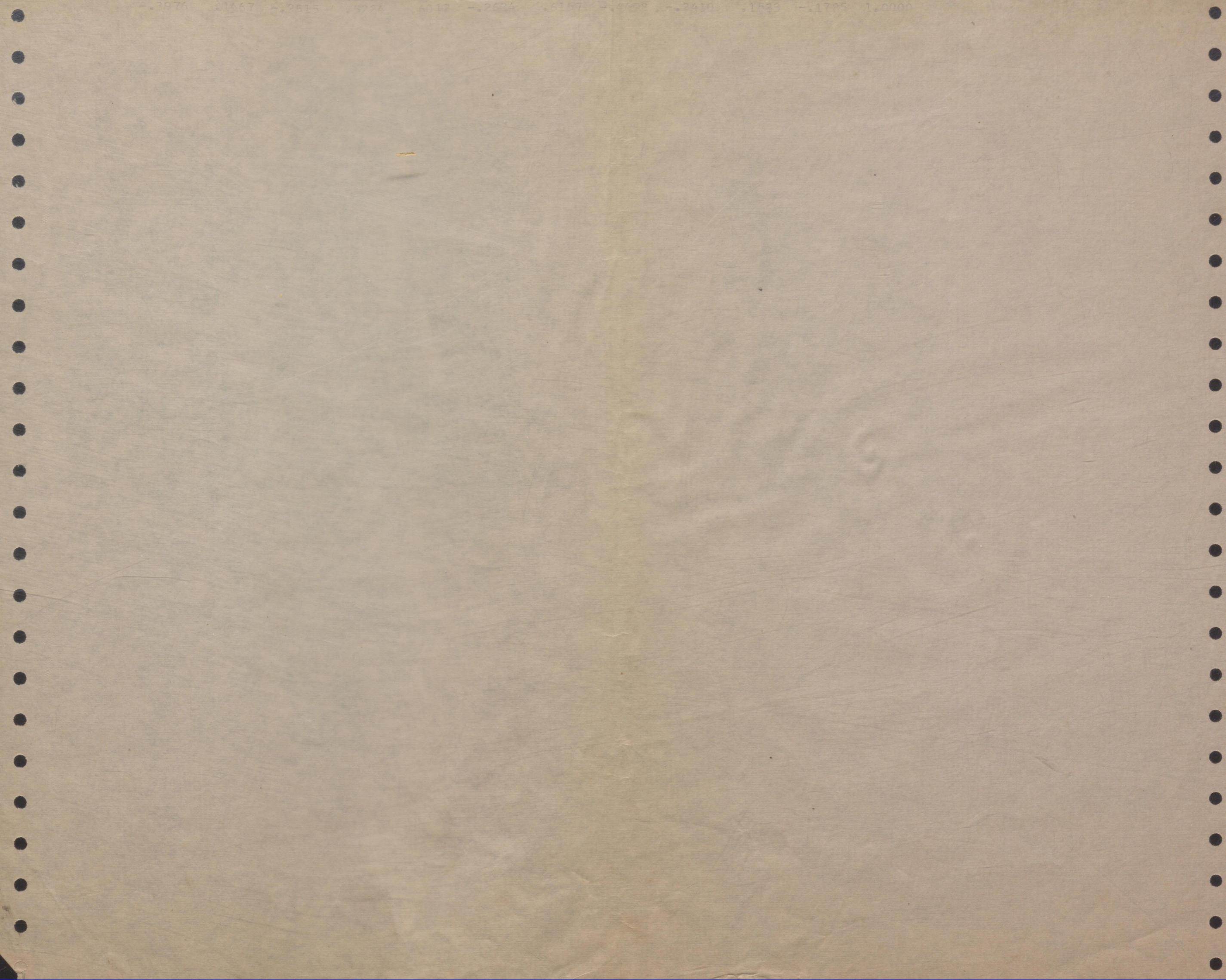
GENOTYPIC CORRELATIONS

Table of genotypic correlations with 12 columns and 12 rows of numerical values.

ENVIRONMENTAL CORRELATIONS

Table of environmental correlations with 12 columns and 12 rows of numerical values.

-.3976 .1667 -.25 .4224 .6012 -.2634 .6157 -.4078 -.2410 .1533 -.1725 1.0000



ERROR 22 -6194900E+02 -2787834E+01
TOTAL 35 -19867500E+03 -56764295E+01

BETWEEN CHARACTER (4, 5)

SOURCE D.F. S.P. M.P.
REPLICATIONS 2 27835900E+04 13917050E+04
TREATMENTS 11 -43124100E+04 -39203727E+03
ERROR 22 27723000E+05 12601263E+04
TOTAL 35 26194180E+05 74840514E+03

BETWEEN CHARACTER (4, 6)

SOURCE D.F. S.P. M.P.
REPLICATIONS 2 -25789700E+05 -12894850E+05
TREATMENTS 11 60450000E+03 5495449E+02
ERROR 22 4074900E+05 1851094E+04
TOTAL 35 1558700E+05 44453428E+03

BETWEEN CHARACTER (4, 7)

SOURCE D.F. S.P. M.P.
REPLICATIONS 2 19394970E+05 96974850E+04
TREATMENTS 11 -75675200E+04 -68795626E+03
ERROR 22 24190090E+05 10995468E+04
TOTAL 35 36017480E+05 10290708E+04

BETWEEN CHARACTER (4, 8)

SOURCE D.F. S.P. M.P.
REPLICATIONS 2 -37073100E+04 -1859650E+04
TREATMENTS 11 13099740E+04 1190854E+03
ERROR 22 -10837300E+04 -49280454E+02
TOTAL 35 -34810690E+04 -99459028E+02

BETWEEN CHARACTER (4, 9)

SOURCE D.F. S.P. M.P.
REPLICATIONS 2 -31856220E+05 -15928110E+05
TREATMENTS 11 32700350E+05 29727590E+04
ERROR 22 -14018000E+04 -43722727E+02
TOTAL 35 -55727000E+03 -15036285E+02

BETWEEN CHARACTER (4, 10)

SOURCE D.F. S.P. M.P.
REPLICATIONS 2 23291200E+05 11695600E+05
TREATMENTS 11 -14160100E+05 -12872818E+04
ERROR 22 28606700E+05 13003045E+04
TOTAL 35 37837800E+05 10810800E+04

BETWEEN CHARACTER (4, 11)

SOURCE D.F. S.P. M.P.
REPLICATIONS 2 24150090E+07 13075015E+07
TREATMENTS 11 -26074360E+07 -21886234E+06
ERROR 22 26982810E+07 12266813E+06
TOTAL 35 30812880E+07 8883000E+06

BETWEEN CHARACTER (2, 6)

SOURCE D.F. S.P. M.P.

REPLICATIONS 2 -55143000E+02
TREATMENTS 11 -10417000E+02
ERROR 22 -23744200E+02
TOTAL 35 -19271700E+03

BETWEEN CHARACTER (3, 7)

SOURCE D.F. S.P. M.P.

REPLICATIONS 2 -30400000E+02
TREATMENTS 11 -22764700E+02
ERROR 22 -98233000E+01
TOTAL 35 -67000000E+02

BETWEEN CHARACTER (3, 8)

SOURCE D.F. S.P. M.P.

REPLICATIONS 2 -13917000E+01
TREATMENTS 11 -66767000E+01
ERROR 22 -11075000E+02
TOTAL 35 -18933400E+02

BETWEEN CHARACTER (3, 9)

SOURCE D.F. S.P. M.P.

REPLICATIONS 2 -88417000E+01
TREATMENTS 11 -12090830E+03
ERROR 22 -23657510E+03
TOTAL 35 -34864170E+03

BETWEEN CHARACTER (3, 10)

SOURCE D.F. S.P. M.P.

REPLICATIONS 2 -58183000E+02
TREATMENTS 11 -99858000E+02
ERROR 22 -42500000E+01
TOTAL 35 -15379100E+03

BETWEEN CHARACTER (3, 11)

SOURCE D.F. S.P. M.P.

REPLICATIONS 2 -45854000E+04
TREATMENTS 11 -98834000E+04
ERROR 22 -12776800E+05
TOTAL 35 -16920000E+04

BETWEEN CHARACTER (3, 12)

SOURCE D.F. S.P. M.P.

REPLICATIONS 2 -78000000E+02

BETWEEN CHARACTER (2, 8)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	-3360000E+02	-1675000E+02
TREATMENTS	11	-1086700E+02	-1806986E+01
ERROR	22	-6533300E+02	-3878783E+01
TOTAL	35	-1387000E+03	-3952857E+01

BETWEEN CHARACTER (2, 9)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	-17979200E+03	-8989600E+03
TREATMENTS	11	-36422500E+03	-38111363E+03
ERROR	22	-15924680E+04	-72272763E+02
TOTAL	35	-21374250E+04	-61069285E+02

BETWEEN CHARACTER (2, 10)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	-48804100E+03	-23402050E+03
TREATMENTS	11	-30497100E+03	-2772190E+02
ERROR	22	-29660700E+03	-12482136E+02
TOTAL	35	-47637500E+03	-13610714E+02

BETWEEN CHARACTER (2, 11)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	-42353300E+05	-21176650E+05
TREATMENTS	11	-36920600E+05	-38564181E+04
ERROR	22	-67905600E+05	-30866181E+04
TOTAL	35	-11368300E+05	-32488957E+03

BETWEEN CHARACTER (2, 12)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	-87020800E+03	-43510400E+03
TREATMENTS	11	-52692500E+03	-47902272E+02
ERROR	22	-14619200E+03	-66450909E+01
TOTAL	35	-15433250E+04	-44095000E+02

BETWEEN CHARACTER (3, 4)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	-14131400E+05	-70657000E+04
TREATMENTS	11	-38503000E+05	-35002727E+04
ERROR	22	-19171000E+04	-67007545E+03
TOTAL	35	-22457500E+05	-64164285E+03

BETWEEN CHARACTER (3, 5)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	-84417000E+01	-42208500E+01
TREATMENTS	11	-1053300E+02	-55757272E+00
ERROR	22	-28583000E+01	-12982272E+00
TOTAL	35	-2183300E+02	-62380857E+00

SOURCE	D.F.	S.S.	M.S.	F
REPLICATIONS	2	.11938890E+01	.59694450E-00	.24202930E+01
TREATMENTS	11	.52222300E-00	.47474318E-01	.19248518E-00
ERROR	22	.54281110E+01	.24664140E-00	
TOTAL	35	.71422230E+01	.20406351E-00	

CHARACTER - 9

SOURCE	D.F.	S.S.	M.S.	F
REPLICATIONS	2	.23644060E+03	.11822030E+03	.13257454E+01
TREATMENTS	11	.29660980E+03	.26964527E+02	.30238545E-00
ERROR	22	.19617994E+04	.89172700E+02	
TOTAL	35	.24943498E+04	.71281422E+02	

CHARACTER - 10

SOURCE	D.F.	S.S.	M.S.	F
REPLICATIONS	2	.25202720E+03	.12601360E+03	.11680732E+02
TREATMENTS	11	.28178970E+03	.25617245E+02	.23745706E+01
ERROR	22	.23733950E+03	.10788159E+02	
TOTAL	35	.77115640E+03	.22033040E+02	

CHARACTER - 11

SOURCE	D.F.	S.S.	M.S.	F
REPLICATIONS	2	.12592590E+07	.62962950E+06	.29232850E+01
TREATMENTS	11	.18713620E+07	.17921472E+06	.83206987E-00
ERROR	22	.47384530E+07	.21588422E+06	
TOTAL	35	.79690740E+07	.22768782E+06	

CHARACTER - 12

SOURCE	D.F.	S.S.	M.S.	F
REPLICATIONS	2	.33454160E+03	.16727080E+03	.95865907E+01
TREATMENTS	11	.21264080E+03	.19330981E+02	.11078933E+01
ERROR	22	.38386510E+03	.17448413E+02	
TOTAL	35	.93104750E+03	.26601357E+02	

COVARIANCE ANALYSIS

BETWEEN CHARACTER(1, 2)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	-.59466700E+04	-.29783350E+04
TREATMENTS	11	.28111660E+05	.25556054E+04
ERROR	22	-.14203990E+05	-.64563590E+03
TOTAL	35	.79610000E+04	.22745714E+03

BETWEEN CHARACTER(1, 3)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.83170000E+02	.41585000E+02
TREATMENT	11	-.43416000E+04	-.39469636E+03
ERROR	22	.21783000E+04	.99013636E+02
TOTAL	35	.61537000E+02	.21783000E+02

TOTAL 35 .39406600E+04 -.11259028E+03

BETWEEN CHARACTER(1, 4)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.74825000E+06	-.38912500E+06
TREATMENTS	11	-.25224940E+07	-.22933581E+06
ERROR	22	-.49541500E+06	-.22518863E+05
TOTAL	35	-.37963590E+07	-.10846740E+06

BETWEEN CHARACTER(1, 5)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.37004500E+03	.18502250E+03
TREATMENTS	11	.66871200E+03	.60792000E+02
ERROR	22	.45445500E+03	.20657045E+02
TOTAL	35	.14937120E+04	.42663200E+02

BETWEEN CHARACTER(1, 6)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.73127800E+04	.36563900E+04
TREATMENTS	11	-.32436200E+04	-.29487454E+03
ERROR	22	.20886390E+05	.94938136E+03
TOTAL	35	.24955550E+05	.71301571E+03

BETWEEN CHARACTER(1, 7)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.28931700E+03	.14465850E+03
TREATMENTS	11	.11609670E+04	.10554245E+03
ERROR	22	-.11021170E+04	-.50096227E+02
TOTAL	35	.34816700E+03	.99476285E+01

BETWEEN CHARACTER(1, 8)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.30065500E+03	.15032750E+03
TREATMENTS	11	-.28387800E+03	-.25807090E+02
ERROR	22	.94541200E+03	.42973272E+02
TOTAL	35	.96218900E+03	.27491114E+02

BETWEEN CHARACTER(1, 9)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.42588620E+04	.21294310E+04
TREATMENTS	11	-.42118880E+04	-.38289890E+03
ERROR	22	.17475438E+05	.79433809E+03
TOTAL	35	.17522412E+05	.50064034E+03

BETWEEN CHARACTER(1, 10)

SOURCE	D.F.	S.P.	M.P.
REPLICATIONS	2	.20822800E+04	.10411400E+04
TREATMENTS	11	-.36589100E+04	-.33262818E+03
ERROR	22	.34716600E+04	.15780272E+03

BETWEEN CHARACTER (1, 11)

SOURCE D.F. S.P. M.P.
REPLICATIONS 2 .7820400E+05
TREATMENTS 11 .3657500E+05
ERROR 22 .4693590E+05
TOTAL 35 .5641380E+05
16118228E+05

BETWEEN CHARACTER (1, 12)

SOURCE D.F. S.P. M.P.
REPLICATIONS 2 .1022750E+04
TREATMENTS 11 .7446260E+04
ERROR 22 .4982810E+04
TOTAL 35 .1440700E+04
41162857E+02

BETWEEN CHARACTER (2, 3)

SOURCE D.F. S.P. M.P.
REPLICATIONS 2 .1962500E+03
TREATMENTS 11 .6199170E+03
ERROR 22 .2560830E+03
TOTAL 35 .1072250E+04
30635714E+02

BETWEEN CHARACTER (2, 4)

SOURCE D.F. S.P. M.P.
REPLICATIONS 2 .19539760E+06
TREATMENTS 11 .17116570E+06
ERROR 22 .13165060E+06
TOTAL 35 .10742170E+06
30691914E+04

BETWEEN CHARACTER (2, 5)

SOURCE D.F. S.P. M.P.
REPLICATIONS 2 .6358330E+02
TREATMENTS 11 .4966660E+02
ERROR 22 .12184990E+03
TOTAL 35 .8600000E+01
24571429E-00

BETWEEN CHARACTER (2, 6)

SOURCE D.F. S.P. M.P.
REPLICATIONS 2 .1037500E+03
TREATMENTS 11 .8925000E+02
ERROR 22 .1843350E+04
TOTAL 35 .1650350E+04
47152857E+02

BETWEEN CHARACTER (2, 7)

SOURCE D.F. S.P. M.P.
REPLICATIONS 2 .2953750E+03
TREATMENTS 11 .1410000E+03
ERROR 22 .5612500E+02
TOTAL 35 .4925000E+03
14071429E+02

SOURCE	D.F.	S.S.	M.S.	F
REPLICATIONS	2	.18500000E+02	.92500000E+01	.13143108E+01
TREATMENTS	11	.10341600E+03	.16674181E+02	.23691953E+01
ERROR	22	.15483400E+03	.70379090E+01	
TOTAL	35	.35675000E+03	.10192857E+02	

CHARACTER - 4

SOURCE	D.F.	S.S.	M.S.	F
REPLICATIONS	2	.17213800E+08	.86069000E+07	.34012596E+01
TREATMENTS	11	.16422800E+08	.14929818E+07	.58999396E-00
ERROR	22	.55671080E+08	.25305036E+07	
TOTAL	35	.89307680E+08	.25516480E+07	

CHARACTER - 5

SOURCE	D.F.	S.S.	M.S.	F
REPLICATIONS	2	.59438000E+01	.29719450E+01	.24267276E+01
TREATMENTS	11	.00356600E+01	.73050545E-00	.59649078E-00
ERROR	22	.26942780E-02	.12246718E+01	
TOTAL	35	.40922230E+02	.11692065E+01	

CHARACTER - 6

SOURCE	D.F.	S.S.	M.S.	F
REPLICATIONS	2	.88273700E+03	.44136850E+03	.35472822E+01
TREATMENTS	11	.56671200E+03	.51519272E+02	.41406081E-00
ERROR	22	.27373370E+04	.12442440E+03	
TOTAL	35	.41867860E+04	.11962245E+03	

CHARACTER - 7

SOURCE	D.F.	S.S.	M.S.	F
REPLICATIONS	2	.52235000E+02	.26117500E+02	.13913008E+02
TREATMENTS	11	.19666600E+02	.17878727E+01	.95241461E-00
ERROR	22	.41298400E+02	.18772000E+01	
TOTAL	35	.11320000E+03	.32342857E+01	

CHARACTER - 8

*R/NOR0904

30610 LENGTH

30609 NEXT COLUMN

END OF COMPIATION

TEST RESULTS

ANALYSIS DEVIANCE FOR EACH CHARACTER

CHARACTER - 1

SOURCE

D.F.

S.S.

S.S.

REPLICATIONS

2

*79977000E+05

*29973500E+05

TREATMENTS

11

*89185300E+06

*75223000E+05

ERROR

22

*40901170E+06

*18591740E+05

TOTAL

35

*13208117E+07

*87737477E+05

SOURCE

D.F.

S.S.

S.S.

REPLICATIONS

2

*24041660E+04

*12020930E+04

TREATMENTS

11

*29280830E+04

*26618936E+03

ERROR

22

*25865010E+04

*11756822E+03

TOTAL

35

*79187500E+04

*22625000E+03

CHARACTER - 2

CHARACTER - 2

72	71	53	47	46	41	40	24	15						
61	47	41	30	22	60	59	58	51	20	53	52	39	36	19
71	57	45	52	26	23	77	75	58	52					
80	69	53	47	68	56	48	47	46	5	68	58	54	31	26
85	80	92	65	26	67	62	52	46	32					
65	56	52	16	84	68	65	52	25	15	67	58	49	31	32
60	66	32	23	15	56	40	28	64	33					
58	45	58	21	53	37	58	52	66	35	64	60	60	54	58
54	53	38	46	10	67	67	66	52	23					
61	53	59	52	51	64	59	53	57	45	31	60	53	49	31
64	55	51	36	32	71	57	50	39	21					
68	58	50	38	28	77	70	59	59	51	62	55	55	52	72
66	61	55	52	40	60	58	58	50	45					
55	50	49	46	14	84	67	63	28	14	77	67	60	48	21
62	65	62	54	37	83	79	71	61	52					
73	72	65	45	31	83	78	57	62	47	63	62	58	53	41
66	61	52	26	5	71	60	49	47	47					
68	65	61	51	45	47	46	39	31	26	46	40	39	38	33
58	53	48	48	62	55	65	47	42	35					
76	64	39	39	30	68	52	52	61	56	46	68	77	67	67
66	57	48	44	33	50	49	40	33	56					
71	35	64	56	93	71	64	64	39	32	78	68	63	54	5
62	49	22	27	55	77	70	61	55	42					
72	62	50	46	40	77	74	79	70	62	68	67	45	22	92
62	57	51	58	17	52	50	42	38	34					
69	65	58	39	16	66	60	55	33	79	67	66	53	71	84
55	53	52	47	45	28	84	72	89	52					
61	47	40	32	66	53	64	56	27	52	72	70	69	65	58
66	66	59	50	48	48	66	59	41	61					
68	58	52	33	47	79	79	78	62	31	63	59	55	54	48
69	67	65	56	55	47	26	68	44	42					
68	60	29	25	46	71	62	47	35	41	65	61	53	43	64
74	62	47	43	26	27	55	48	40	23					
63	60	57	56	48	59	49	43	43	29	65	61	57	56	57
68	61	52	38	67	85	53	51	46	26					
67	64	59	54	83	69	58	54	47	43	54	54	51	53	43
68	58	56	33	59	50	47	41	40	40					
54	44	34	55	37	59	56	54	50	39	65	58	52	44	65
49	45	35	20	24	52	42	30	36	8					
63	84	83	67	52	59	55	49	43	14	55	44	50	88	84
78	63	62	52	89	58	26	95	56	24					

	34476.0000	30
54874.8000 ✓		160.0000 ✓
342.9675		1.4643
187375.2000 ✓		800.0000
234.2190		1.0000
276726.0000 ✓		999.0000
277.0030		1.1926

884.0000 ✓ 3.7742

3

```

4 SS=SS+SIM*SIM
Z=IT
E(2)=SS/7-CE-E(1)
F(3)=F(4)-E(1)-E(2)
DF(1)=IF-1
DF(4)=X-1
DF(2)=IF*(IS-1)
DF(3)=DF(4)-DF(1)-DF(2)
DO 8 I=1,4
8 AF(I)=E(I)/DF(I)
DO 9 J=1,4
9 F(I)=AF(I)/AF(3)
DO 10 I=1,4
10 FORMAT(10X,F20.4,5X,14,2(4X,F20.4))
GO TO 100
END

```

DO 15. I=1,4
 15 PRINT 10, E(I), DF(I), AF(I), F(I)

```

00003 0001
00013 00000000RR
00023 10000000-1
00027 0004

```

00037	A	12527	12527	F	12567	12577	AE	12607	12611	IT	12615	I	12619	J
12629	X	12639	Z	12649	DF	12679	E	12719	12723	IF	12727	IS	12731	Y
12731	K	12741	SIM	12751	SS	12761	TSS	12771	CF	12781	12781	12781	12781	12781

```

0001 12843 0003 12652 0005 12852 0007 14354 0009 15056 0100 12782 0002 13120 0004 14114
0006 14480 0008 14936 0010 15326
15430 LENGTH
39999 NEXT COMMON
END OF COMPILATION

```

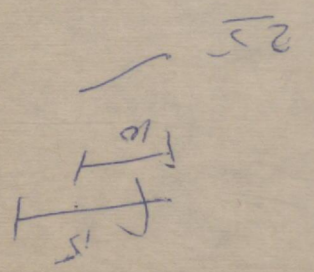
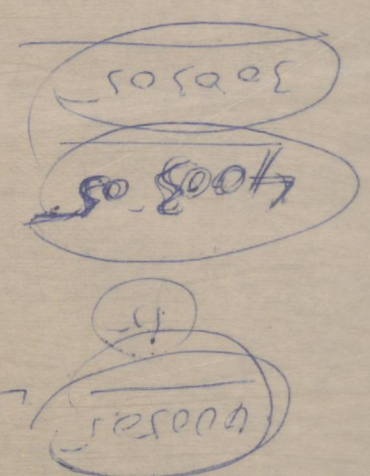
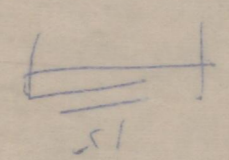
75	64	49	39	33	65	58	35	30	50	65	65	57	21	30
58	56	57	45	38	84	68	69	57	50					
63	54	35	26	94	68	58	42	35	90	87	79	62	62	53
74	64	55	22	11	69	67	62	61	59					
71	62	57	51	49	40	31	31	20	65	75	68	61	55	51
79	72	65	62	50	74	66	64	61	21					
26	28	70	31	25	76	75	66	58	52	74	32	28	23	16
56	49	37	26	24	55	68	66	69	44					
68	56	44	31	49	62	41	41	28	49	62	56	57	41	34
60	52	36	35	91	73	65	56	43	28					
77	72	67	62	55	68	47	40	38	30	69	50	49	38	62
55	52	49	45	46	42	40	33	32	51					
53	49	37	28	16	50	21	14	68	46	59	56	54	42	9
69	64	47	47	36	59	55	56	50	49					
77	64	64	54	51	34	64	54	49	49	71	65	55	42	44
61	68	39	36	70	73	56	68	43	34					
64	64	49	49	39	71	50	45	40	34	49	42	40	27	41
67	59	52	50	79	64	51	48	39	18					
70	62	54	42	43	84	51	49	36	51	71	109	64	64	55
67	61	60	57	52	50	59	54	52	15					
68	61	57	49	34	63	25	63	39	35	58	57	69	37	2
43	28	44	68	52	51	56	31	21	20					
41	20	42	59	52	55	94	44	41	62	43	55	45	43	31
42	63	45	20	3	69	39	24	22	58					
71	41	41	38	26	59	40	30	64	53	81	71	59	49	42
52	42	21	93	65	67	62	60	57	25					
50	49	44	40	0	63	55	49	44	38	65	49	48	39	23
73	68	64	55	50	40	50	53	45	19					
61	49	27	27	29	43	34	25	42	35	58	50	43	21	11
52	35	27	25	7	42	27	22	50	59					
55	39	23	26	15	3	3	53	55	50	35	23	6	42	42
52	42	41	33	32	59	55	27	34	29					
66	64	42	33	29	27	62	33	21	26	60	44	40	31	39
30	25	8	42	36	13	50	46	46	42					
56	43	35	35	42	52	49	44	42	40	24	60	52	42	42
55	40	19	73	65	55	50	46	39	69					
44	57	48	38	20	57	46	43	72	81	58	54	44	37	58
50	48	50	34	16	67	44	40	40	28					

DB
SUM
DU 6 J=1, IS
DU 6 I=1, IE
SS=0
F(1)=SS/Y-CF
A=IS*IT
7 SS=SS+SUM*SUM
5 SUM=SUM+V(I, J, K)
DU 5 K=1, IT
DU 5 J=1, IS
SUM=0
DU 4 I=1, IE
SS=0
F(4)=SS-CF
CF=SUM*SUM/X
3 SS=SS+V(I, J, K)*V(I, J, K)
SUM=SUM+V(I, J, K)
DU 3 K=1, IT
DU 3 J=1, IS
DU 2 I=1, IE
X=IF*IS*IT
SS=0
SS=0
SUM=0

~~WRITE 2, ((A(I, J, K), K=1, IT), J=1, IS), I=1, IE)~~
2 FORMAT (5X, 15E5, 0/5X, 10F5, 0)
READ 2, (((A(I, J, K), K=1, IT), J=1, IS), I=1, IE)
1 FORMAT (3I2)
100 READ 1, IB, IS, IT
DIMENSION A(50, 5, 5), F(4), V(4), DF(4), P(4)

check in card

*LISTPRINTER



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