

Figure 1:

Type 3 Analysis of Variance								
Source	DF	Sum of Squares	Mean Square	Expected Mean Square	Error Term	Error DF	F Value	Pr > F
S	2	3143.023333	1571.511667	$\text{Var}(\text{Residual}) + 2 \text{Var}(M^*I(S)) + 2 \text{Var}(T^*I(S)) + 4 \text{Var}(I(S)) + Q(S, S^*T, S^*M, S^*M^*T)$	$MS(I(S))$	3	2.30	0.2484
T	1	236.881667	236.881667	$\text{Var}(\text{Residual}) + 2 \text{Var}(T^*I(S)) + Q(T, S^*T, M^*T, S^*M^*T)$	$MS(T^*I(S))$	3	7.37	0.0728
S*T	2	275.773333	137.886667	$\text{Var}(\text{Residual}) + 2 \text{Var}(T^*I(S)) + Q(S^*T, S^*M^*T)$	$MS(T^*I(S))$	3	4.29	0.1318
M	1	96.000000	96.000000	$\text{Var}(\text{Residual}) + 2 \text{Var}(M^*I(S)) + Q(M, S^*M, M^*T, S^*M^*T)$	$MS(M^*I(S))$	3	3.00	0.1817
S*M	2	51.430000	25.715000	$\text{Var}(\text{Residual}) + 2 \text{Var}(M^*I(S)) + Q(S^*M, S^*M^*T)$	$MS(M^*I(S))$	3	0.80	0.5255
M*T	1	31.740000	31.740000	$\text{Var}(\text{Residual}) + Q(M^*T, S^*M^*T)$	$MS(\text{Residual})$	3	7.61	0.0702
S*M*T	2	11.970000	5.985000	$\text{Var}(\text{Residual}) + Q(S^*M^*T)$	$MS(\text{Residual})$	3	1.44	0.3652
I(S)	3	2053.050000	684.350000	$\text{Var}(\text{Residual}) + 2 \text{Var}(M^*I(S)) + 2 \text{Var}(T^*I(S)) + 4 \text{Var}(I(S))$	$MS(T^*I(S)) + MS(M^*I(S)) - MS(\text{Residual})$	5.2014	11.41	0.0101
T*I(S)	3	96.370000	32.123333	$\text{Var}(\text{Residual}) + 2 \text{Var}(T^*I(S))$	$MS(\text{Residual})$	3	7.71	0.0638
M*I(S)	3	96.015000	32.005000	$\text{Var}(\text{Residual}) + 2 \text{Var}(M^*I(S))$	$MS(\text{Residual})$	3	7.68	0.0641
Residual	3	12.505000	4.168333	$\text{Var}(\text{Residual})$	.	.	.	.