

Correlation Coefficients for all numeric fields

8 With Variables:	HP	Defense	Attack	SpecialAtk	SpecialDef	Speed	Total	Generation
8 Variables:	HP	Defense	Attack	SpecialAtk	SpecialDef	Speed	Total	Generation

Pearson Correlation Coefficients, N = 807								
	HP	Defense	Attack	SpecialAtk	SpecialDef	Speed	Total	Generation
HP	1.00000	0.23354	0.43002	0.37503	0.37166	0.16940	0.64453	0.06804
Defense	0.23354	1.00000	0.43642	0.19919	0.50429	-0.02267	0.60863	0.09081
Attack	0.43002	0.43642	1.00000	0.33112	0.20343	0.33369	0.70545	0.12945
SpecialAtk	0.37503	0.19919	0.33112	1.00000	0.48161	0.43698	0.72268	0.09424
SpecialDef	0.37166	0.50429	0.20343	0.48161	1.00000	0.20458	0.69983	0.07395
Speed	0.16940	-0.02267	0.33369	0.43698	0.20458	1.00000	0.53905	0.00326
Total	0.64453	0.60863	0.70545	0.72268	0.69983	0.53905	1.00000	0.11872
Generation	0.06804	0.09081	0.12945	0.09424	0.07395	0.00326	0.11872	1.00000

Analysis Variable : Total								
Type1	Type2	N Obs	Mean	Median	Std Dev	Minimum	Maximum	N
Bug	Electric	4	422.7500000	436.0000000	80.9830229	319.0000000	500.0000000	4
	Fairy	2	384.0000000	384.0000000	113.1370850	304.0000000	464.0000000	2
	Fighting	3	546.6666667	570.0000000	40.4145188	500.0000000	570.0000000	3
	Fire	2	455.0000000	455.0000000	134.3502884	360.0000000	550.0000000	2
	Flying	13	408.6923077	411.0000000	80.2489716	244.0000000	515.0000000	13
	Ghost	1	236.0000000	236.0000000	.	236.0000000	236.0000000	1
	Grass	6	384.0000000	392.5000000	78.4729253	285.0000000	500.0000000	6
	Ground	1	266.0000000	266.0000000	.	266.0000000	266.0000000	1
	Poison	11	335.4545455	360.0000000	98.4493409	195.0000000	485.0000000	11
	Rock	3	438.3333333	485.0000000	98.6576572	325.0000000	505.0000000	3
	Steel	5	508.8000000	495.0000000	52.7228603	465.0000000	600.0000000	5
	Water	3	343.0000000	269.0000000	163.1165228	230.0000000	530.0000000	3
Dark	Dragon	4	472.5000000	495.0000000	139.3735986	300.0000000	600.0000000	4
	Fighting	2	418.0000000	418.0000000	98.9949494	348.0000000	488.0000000	2
	Fire	2	415.0000000	415.0000000	120.2081528	330.0000000	500.0000000	2
	Flying	5	494.0000000	505.0000000	120.6958989	370.0000000	680.0000000	5
	Ghost	1	380.0000000	380.0000000	.	380.0000000	380.0000000	1
	Ice	2	470.0000000	470.0000000	56.5685425	430.0000000	510.0000000	2
	Psychic	2	385.0000000	385.0000000	137.1787156	288.0000000	482.0000000	2
	Steel	2	415.0000000	415.0000000	106.0660172	340.0000000	490.0000000	2
Dragon	Electric	1	680.0000000	680.0000000	.	680.0000000	680.0000000	1
	Fighting	2	510.0000000	510.0000000	127.2792206	420.0000000	600.0000000	2
	Fire	1	680.0000000	680.0000000	.	680.0000000	680.0000000	1
	Flying	4	592.5000000	600.0000000	78.0491298	490.0000000	680.0000000	4
	Ground	4	477.5000000	505.0000000	148.4082208	300.0000000	600.0000000	4
	Ice	1	660.0000000	660.0000000	.	660.0000000	660.0000000	1
	Psychic	2	600.0000000	600.0000000	0	600.0000000	600.0000000	2
Electric	Fairy	2	500.5000000	500.5000000	98.2878426	431.0000000	570.0000000	2
	Flying	3	529.3333333	580.0000000	87.7572409	428.0000000	580.0000000	3
	Ghost	1	440.0000000	440.0000000	.	440.0000000	440.0000000	1
	Normal	2	385.0000000	385.0000000	135.7645020	289.0000000	481.0000000	2
	Steel	4	440.0000000	450.0000000	87.3689495	325.0000000	535.0000000	4
Fairy	Flying	2	475.0000000	475.0000000	98.9949494	405.0000000	545.0000000	2
Fighting	Dark	1	495.0000000	495.0000000	.	495.0000000	495.0000000	1
	Flying	1	500.0000000	500.0000000	.	500.0000000	500.0000000	1
	Ghost	1	600.0000000	600.0000000	.	600.0000000	600.0000000	1

Analysis Variable : Total								
Type1	Type2	N Obs	Mean	Median	Std Dev	Minimum	Maximum	N
Fighting	Ice	1	478.0000000	478.0000000	.	478.0000000	478.0000000	1
	Psychic	2	345.0000000	345.0000000	91.9238816	280.0000000	410.0000000	2
	Steel	1	525.0000000	525.0000000	.	525.0000000	525.0000000	1
Fire	Dragon	1	485.0000000	485.0000000	.	485.0000000	485.0000000	1
	Fighting	6	470.0000000	473.0000000	66.6543322	405.0000000	534.0000000	6
	Flying	6	525.1666667	516.5000000	100.6546902	382.0000000	680.0000000	6
	Ghost	1	570.0000000	570.0000000	.	570.0000000	570.0000000	1
	Ground	2	382.5000000	382.5000000	109.6015511	305.0000000	460.0000000	2
	Normal	2	438.0000000	438.0000000	97.5807358	369.0000000	507.0000000	2
	Psychic	1	534.0000000	534.0000000	.	534.0000000	534.0000000	1
	Rock	1	430.0000000	430.0000000	.	430.0000000	430.0000000	1
	Steel	1	600.0000000	600.0000000	.	600.0000000	600.0000000	1
	Water	1	600.0000000	600.0000000	.	600.0000000	600.0000000	1
Flying	Dragon	2	390.0000000	390.0000000	205.0609665	245.0000000	535.0000000	2
Ghost	Dark	1	485.0000000	485.0000000	.	485.0000000	485.0000000	1
	Dragon	1	680.0000000	680.0000000	.	680.0000000	680.0000000	1
	Fairy	1	476.0000000	476.0000000	.	476.0000000	476.0000000	1
	Fire	3	388.3333333	370.0000000	123.5246264	275.0000000	520.0000000	3
	Flying	2	423.0000000	423.0000000	106.0660172	348.0000000	498.0000000	2
	Grass	5	425.8000000	474.0000000	96.4090245	309.0000000	517.0000000	5
	Ground	2	400.0000000	400.0000000	113.1370850	320.0000000	480.0000000	2
	Poison	3	405.0000000	405.0000000	95.0000000	310.0000000	500.0000000	3
Grass	Dark	3	431.6666667	475.0000000	79.4250170	340.0000000	480.0000000	3
	Fairy	5	404.0000000	405.0000000	125.3694540	280.0000000	570.0000000	5
	Fighting	3	523.3333333	530.0000000	60.2771377	460.0000000	580.0000000	3
	Flying	6	375.0000000	380.0000000	85.2642950	250.0000000	460.0000000	6
	Ghost	1	530.0000000	530.0000000	.	530.0000000	530.0000000	1
	Ground	1	525.0000000	525.0000000	.	525.0000000	525.0000000	1
	Ice	2	414.0000000	414.0000000	113.1370850	334.0000000	494.0000000	2
	Poison	14	399.0000000	397.5000000	86.8429174	280.0000000	525.0000000	14
	Psychic	2	427.5000000	427.5000000	144.9568901	325.0000000	530.0000000	2
	Steel	3	454.6666667	489.0000000	135.7951889	305.0000000	570.0000000	3
Ground	Dark	3	387.3333333	351.0000000	117.7808700	292.0000000	519.0000000	3
	Dragon	2	430.0000000	430.0000000	127.2792206	340.0000000	520.0000000	2
	Electric	1	471.0000000	471.0000000	.	471.0000000	471.0000000	1
	Flying	3	513.3333333	510.0000000	85.0490055	430.0000000	600.0000000	3

Analysis Variable : Total								
Type1	Type2	N Obs	Mean	Median	Std Dev	Minimum	Maximum	N
Ground	Ghost	2	393.0000000	393.0000000	127.2792206	303.0000000	483.0000000	2
	Psychic	2	400.0000000	400.0000000	141.4213562	300.0000000	500.0000000	2
	Rock	3	455.0000000	485.0000000	98.4885780	345.0000000	535.0000000	3
	Steel	1	508.0000000	508.0000000	.	508.0000000	508.0000000	1
Ice	Flying	2	455.0000000	455.0000000	176.7766953	330.0000000	580.0000000	2
	Ghost	1	480.0000000	480.0000000	.	480.0000000	480.0000000	1
	Ground	3	410.0000000	450.0000000	144.2220510	250.0000000	530.0000000	3
	Psychic	2	380.0000000	380.0000000	106.0660172	305.0000000	455.0000000	2
	Water	3	410.0000000	410.0000000	120.0000000	290.0000000	530.0000000	3
Normal	Dragon	1	485.0000000	485.0000000	.	485.0000000	485.0000000	1
	Fairy	4	276.2500000	240.0000000	111.1586704	190.0000000	435.0000000	4
	Fighting	2	420.0000000	420.0000000	113.1370850	340.0000000	500.0000000	2
	Flying	26	366.2692308	352.5000000	90.6653441	245.0000000	510.0000000	26
	Grass	2	405.0000000	405.0000000	98.9949494	335.0000000	475.0000000	2
	Ground	1	423.0000000	423.0000000	.	423.0000000	423.0000000	1
	Psychic	3	515.0000000	490.0000000	75.6637298	455.0000000	600.0000000	3
	Water	1	410.0000000	410.0000000	.	410.0000000	410.0000000	1
Poison	Bug	1	330.0000000	330.0000000	.	330.0000000	330.0000000	1
	Dark	3	436.0000000	479.0000000	93.2577075	329.0000000	500.0000000	3
	Dragon	2	517.0000000	517.0000000	32.5269119	494.0000000	540.0000000	2
	Fighting	2	395.0000000	395.0000000	134.3502884	300.0000000	490.0000000	2
	Fire	2	400.0000000	400.0000000	113.1370850	320.0000000	480.0000000	2
	Flying	3	411.6666667	455.0000000	149.7776129	245.0000000	535.0000000	3
	Ground	2	505.0000000	505.0000000	0	505.0000000	505.0000000	2
	Water	3	373.3333333	320.0000000	105.6330125	305.0000000	495.0000000	3
Psychic	Fairy	6	389.0000000	385.0000000	147.9770252	198.0000000	570.0000000	6
	Fighting	1	518.0000000	518.0000000	.	518.0000000	518.0000000	1
	Fire	1	600.0000000	600.0000000	.	600.0000000	600.0000000	1
	Flying	6	451.3333333	447.5000000	133.0739143	320.0000000	680.0000000	6
	Ghost	2	640.0000000	640.0000000	56.5685425	600.0000000	680.0000000	2
	Grass	1	600.0000000	600.0000000	.	600.0000000	600.0000000	1
	Steel	1	680.0000000	680.0000000	.	680.0000000	680.0000000	1
Rock	Bug	2	425.0000000	425.0000000	98.9949494	355.0000000	495.0000000	2
	Dark	1	600.0000000	600.0000000	.	600.0000000	600.0000000	1
	Dragon	2	441.5000000	441.5000000	112.4299782	362.0000000	521.0000000	2
	Fairy	2	550.0000000	550.0000000	70.7106781	500.0000000	600.0000000	2

Analysis Variable : Total								
Type1	Type2	N Obs	Mean	Median	Std Dev	Minimum	Maximum	N
Rock	Fighting	1	580.0000000	580.0000000	.	580.0000000	580.0000000	1
	Flying	4	480.7500000	477.5000000	74.4597207	401.0000000	567.0000000	4
	Grass	2	425.0000000	425.0000000	98.9949494	355.0000000	495.0000000	2
	Ground	6	380.0000000	387.5000000	73.5527022	300.0000000	495.0000000	6
	Ice	2	441.5000000	441.5000000	112.4299782	362.0000000	521.0000000	2
	Poison	1	570.0000000	570.0000000	.	570.0000000	570.0000000	1
	Psychic	2	460.0000000	460.0000000	0	460.0000000	460.0000000	2
	Steel	4	485.0000000	510.0000000	95.1314880	350.0000000	570.0000000	4
	Water	6	417.6666667	425.0000000	88.3892905	306.0000000	500.0000000	6
Steel	Dragon	1	680.0000000	680.0000000	.	680.0000000	680.0000000	1
	Fairy	3	483.3333333	470.0000000	110.6044002	380.0000000	600.0000000	3
	Fighting	1	580.0000000	580.0000000	.	580.0000000	580.0000000	1
	Flying	2	517.5000000	517.5000000	74.2462120	465.0000000	570.0000000	2
	Ghost	3	431.0000000	448.0000000	98.6052737	325.0000000	520.0000000	3
	Ground	1	510.0000000	510.0000000	.	510.0000000	510.0000000	1
	Psychic	6	453.3333333	460.0000000	136.6260102	300.0000000	600.0000000	6
	Rock	3	430.0000000	430.0000000	100.0000000	330.0000000	530.0000000	3
Water	Bug	2	361.5000000	361.5000000	130.8147545	269.0000000	454.0000000	2
	Dark	4	440.7500000	464.0000000	95.7544603	305.0000000	530.0000000	4
	Dragon	2	610.0000000	610.0000000	98.9949494	540.0000000	680.0000000	2
	Electric	2	395.0000000	395.0000000	91.9238816	330.0000000	460.0000000	2
	Fairy	3	413.3333333	420.0000000	160.1041328	250.0000000	570.0000000	3
	Fighting	2	545.0000000	545.0000000	49.4974747	510.0000000	580.0000000	2
	Flying	7	408.2857143	440.0000000	101.8360026	270.0000000	540.0000000	7
	Ghost	2	407.5000000	407.5000000	102.5304833	335.0000000	480.0000000	2
	Grass	3	346.6666667	340.0000000	130.1281420	220.0000000	480.0000000	3
	Ground	9	411.5555556	430.0000000	105.4622102	210.0000000	535.0000000	9
	Ice	3	511.6666667	525.0000000	32.1455025	475.0000000	535.0000000	3
	Poison	3	430.0000000	440.0000000	90.4157066	335.0000000	515.0000000	3
	Psychic	5	458.0000000	490.0000000	81.5935046	315.0000000	520.0000000	5
	Rock	4	436.2500000	447.5000000	66.1280324	355.0000000	495.0000000	4
	Steel	1	530.0000000	530.0000000	.	530.0000000	530.0000000	1

Analysis Variable : Total							
Generation	N Obs	Mean	Median	Std Dev	Minimum	Maximum	N
1	151	407.6423841	405.0000000	99.8752118	195.0000000	680.0000000	151
2	100	407.1800000	415.0000000	112.4562658	180.0000000	680.0000000	100
3	135	403.7259259	410.0000000	115.5704495	190.0000000	680.0000000	135
4	107	445.7570093	480.0000000	117.4784477	194.0000000	720.0000000	107
5	156	425.7564103	445.5000000	102.4697200	255.0000000	680.0000000	156
6	72	429.5833333	450.0000000	111.9293980	200.0000000	680.0000000	72
7	86	449.3953488	480.0000000	118.3282850	175.0000000	680.0000000	86

Variable: Total

Legendary	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
FALSE		750	408.0	100.4	3.6674	175.0	670.0
TRUE		57	604.8	76.7927	10.1714	200.0	720.0
Diff (1-2)	Pooled		-196.8	98.9730	13.5983		
Diff (1-2)	Satterthwaite		-196.8		10.8124		

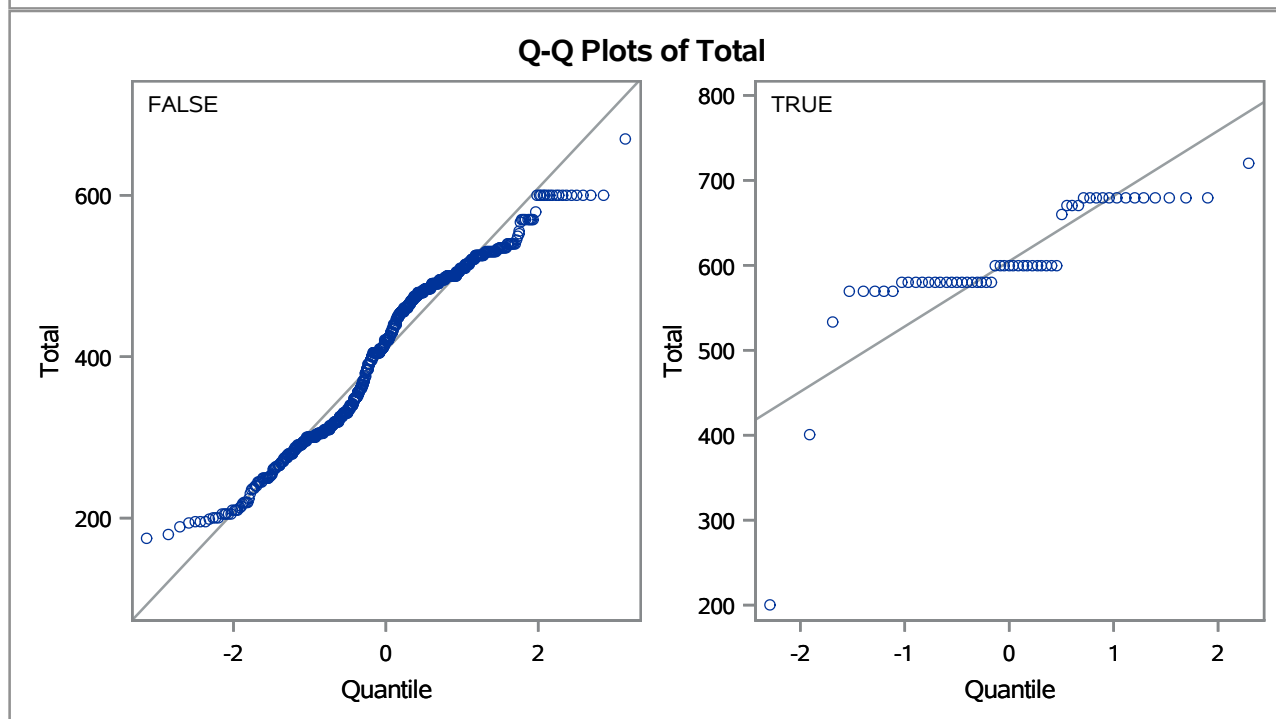
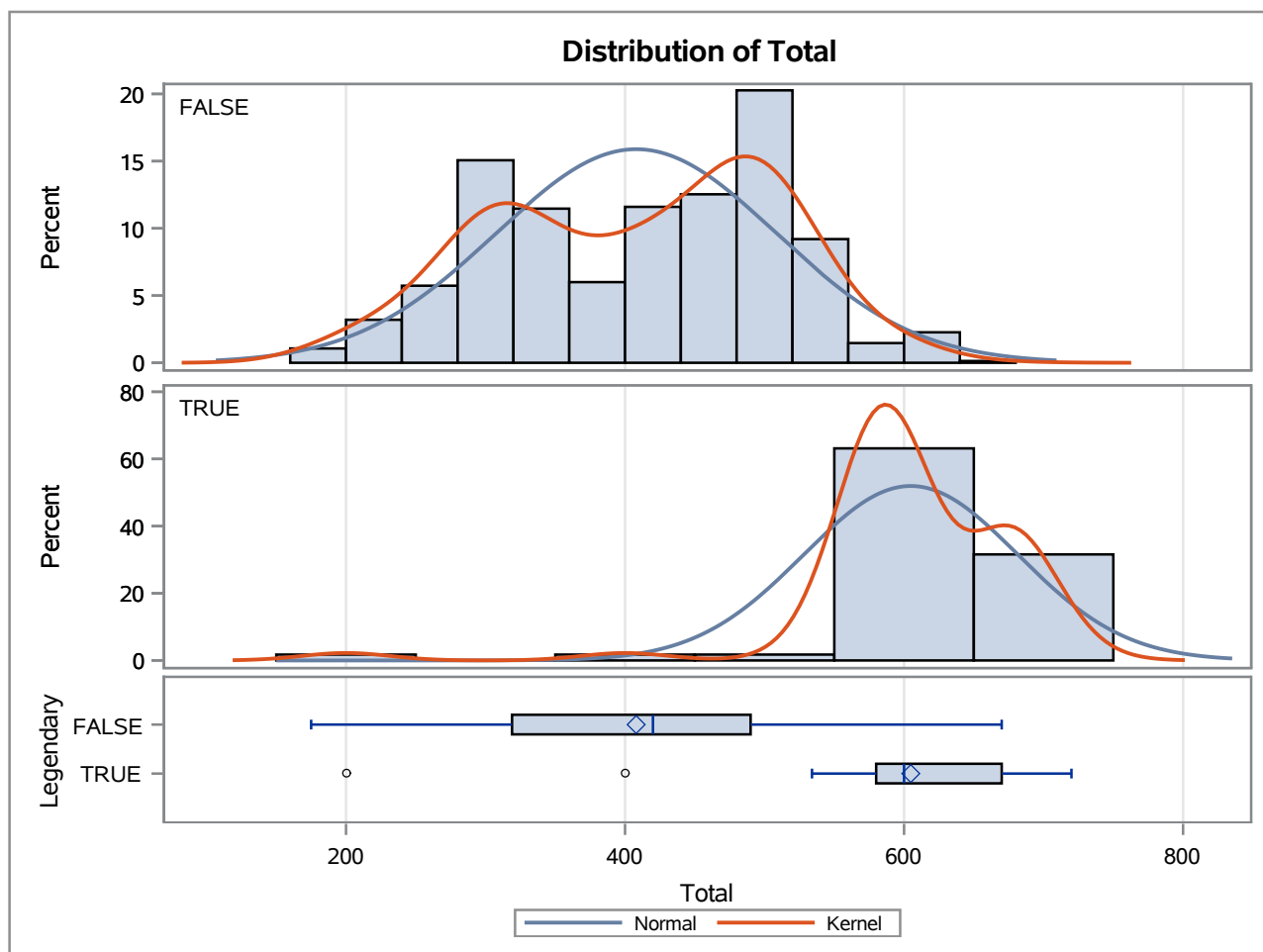
Legendary	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
FALSE		408.0	400.8	415.2	100.4	95.5964	105.8
TRUE		604.8	584.4	625.2	76.7927	64.8326	94.2052
Diff (1-2)	Pooled	-196.8	-223.5	-170.1	98.9730	94.3660	104.1
Diff (1-2)	Satterthwaite	-196.8	-218.4	-175.3			

Method	Variances	DF	t Value	Pr > t
Pooled	Equal	805	-14.47	<.0001
Satterthwaite	Unequal	71.416	-18.20	<.0001

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	749	56	1.71	0.0131

Variable: Total

Variable: Total



Class Level Information		
Class	Levels	Values
Type1	18	Bug Dark Dragon Electric Fairy Fighting Fire Flying Ghost Grass Ground Ice Normal Poison Psychic Rock Steel Water

Number of Observations Read	807
Number of Observations Used	807

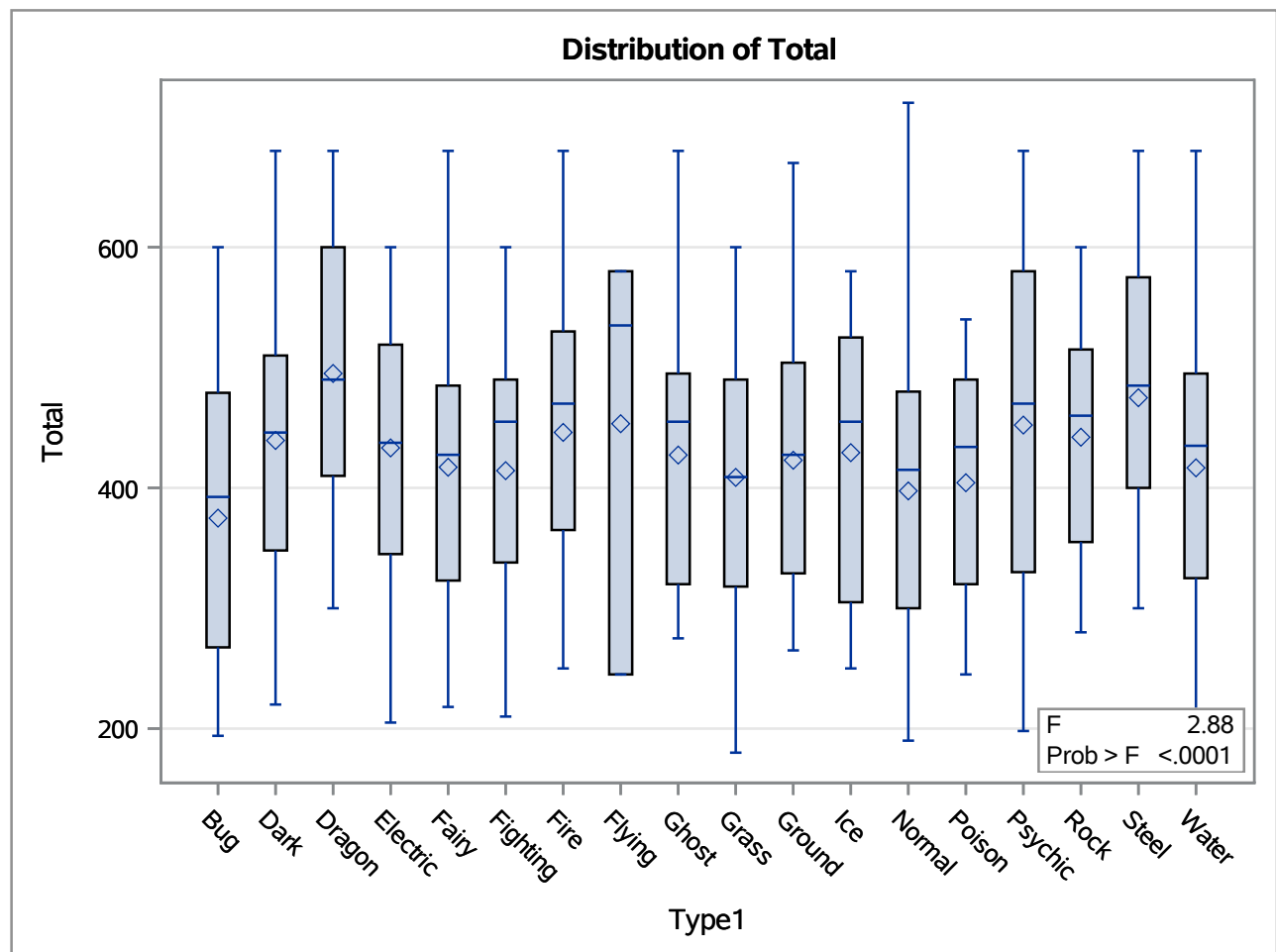
Dependent Variable: Total

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	17	580679.126	34157.596	2.88	<.0001
Error	789	9356856.495	11859.134		
Corrected Total	806	9937535.621			

R-Square	Coeff Var	Root MSE	Total Mean
0.058433	25.81220	108.8996	421.8922

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Type1	17	580679.1262	34157.5957	2.88	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Type1	17	580679.1262	34157.5957	2.88	<.0001



Levene's Test for Homogeneity of Total Variance ANOVA of Squared Deviations from Group Means					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Type1	17	4.5654E9	2.6855E8	1.69	0.0401
Error	789	1.256E11	1.5922E8		

Welch's ANOVA for Total			
Source	DF	F Value	Pr > F
Type1	17.0000	2.31	0.0049
Error	113.7		

Level of Type1	N	Total	
		Mean	Std Dev
Bug	72	374.875000	115.232397
Dark	29	439.413793	108.946749
Dragon	27	495.074074	135.046125
Electric	40	433.250000	106.326240
Fairy	18	417.166667	121.273269
Fighting	29	414.310345	98.132237
Fire	53	446.094340	101.525719
Flying	3	453.333333	181.819508
Ghost	27	427.296296	99.270731
Grass	78	408.730769	102.909956
Ground	32	422.968750	104.423296
Ice	23	429.260870	107.501466
Normal	105	397.485714	110.551860
Poison	34	404.294118	92.346032
Psychic	53	452.207547	132.321339
Rock	46	442.108696	95.078968
Steel	24	474.916667	110.424838
Water	114	416.657895	104.362271

Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Type1	Total LSMEAN	LSMEAN Number
Bug	374.875000	1
Dark	439.413793	2
Dragon	495.074074	3
Electric	433.250000	4
Fairy	417.166667	5
Fighting	414.310345	6
Fire	446.094340	7
Flying	453.333333	8
Ghost	427.296296	9
Grass	408.730769	10
Ground	422.968750	11
Ice	429.260870	12
Normal	397.485714	13
Poison	404.294118	14
Psychic	452.207547	15
Rock	442.108696	16
Steel	474.916667	17
Water	416.657895	18

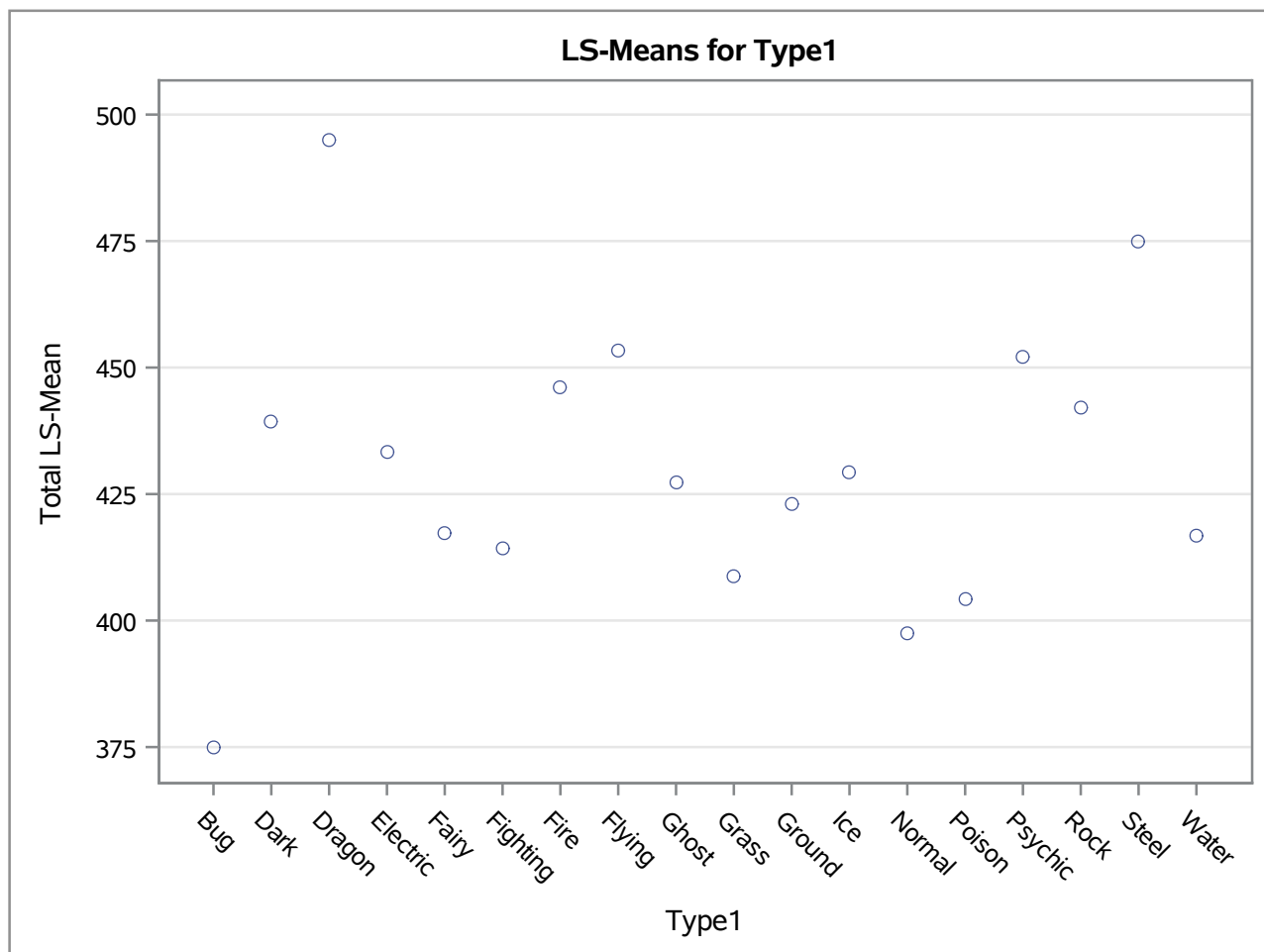
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Least Squares Means for effect Type1 Pr > t for H0: LSMean(i)=LSMean(j) Dependent Variable: Total												
i/j	1	2	3	4	5	6	7	8	9	10	11	12
1		0.3859	0.0002	0.3694	0.9922	0.9753	0.0346	0.9991	0.7961	0.9105	0.8279	0.8243
2	0.3859		0.9071	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9983	1.0000	1.0000
3	0.0002	0.9071		0.6982	0.6453	0.3323	0.9105	1.0000	0.6928	0.0425	0.5050	0.7981
4	0.3694	1.0000	0.6982		1.0000	1.0000	1.0000	1.0000	1.0000	0.9996	1.0000	1.0000
5	0.9922	1.0000	0.6453	1.0000		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
6	0.9753	1.0000	0.3323	1.0000	1.0000		0.9987	1.0000	1.0000	1.0000	1.0000	1.0000
7	0.0346	1.0000	0.9105	1.0000	1.0000	0.9987		1.0000	1.0000	0.9007	1.0000	1.0000
8	0.9991	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000		1.0000	1.0000	1.0000	1.0000
9	0.7961	1.0000	0.6928	1.0000	1.0000	1.0000	1.0000	1.0000		1.0000	1.0000	1.0000
10	0.9105	0.9983	0.0425	0.9996	1.0000	1.0000	0.9007	1.0000	1.0000		1.0000	1.0000
11	0.8279	1.0000	0.5050	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000		1.0000
12	0.8243	1.0000	0.7981	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
13	0.9970	0.9333	0.0047	0.9519	1.0000	1.0000	0.4185	1.0000	0.9987	1.0000	0.9996	0.9987
14	0.9982	0.9986	0.1107	0.9997	1.0000	1.0000	0.9568	1.0000	1.0000	1.0000	1.0000	1.0000
15	0.0115	1.0000	0.9725	1.0000	0.9995	0.9901	1.0000	1.0000	1.0000	0.7241	0.9993	1.0000
16	0.0998	1.0000	0.8658	1.0000	1.0000	0.9998	1.0000	1.0000	1.0000	0.9749	1.0000	1.0000
17	0.0127	0.9995	1.0000	0.9917	0.9662	0.8606	0.9998	1.0000	0.9858	0.4520	0.9522	0.9941
18	0.4935	0.9999	0.0761	1.0000	1.0000	1.0000	0.9782	1.0000	1.0000	1.0000	1.0000	1.0000

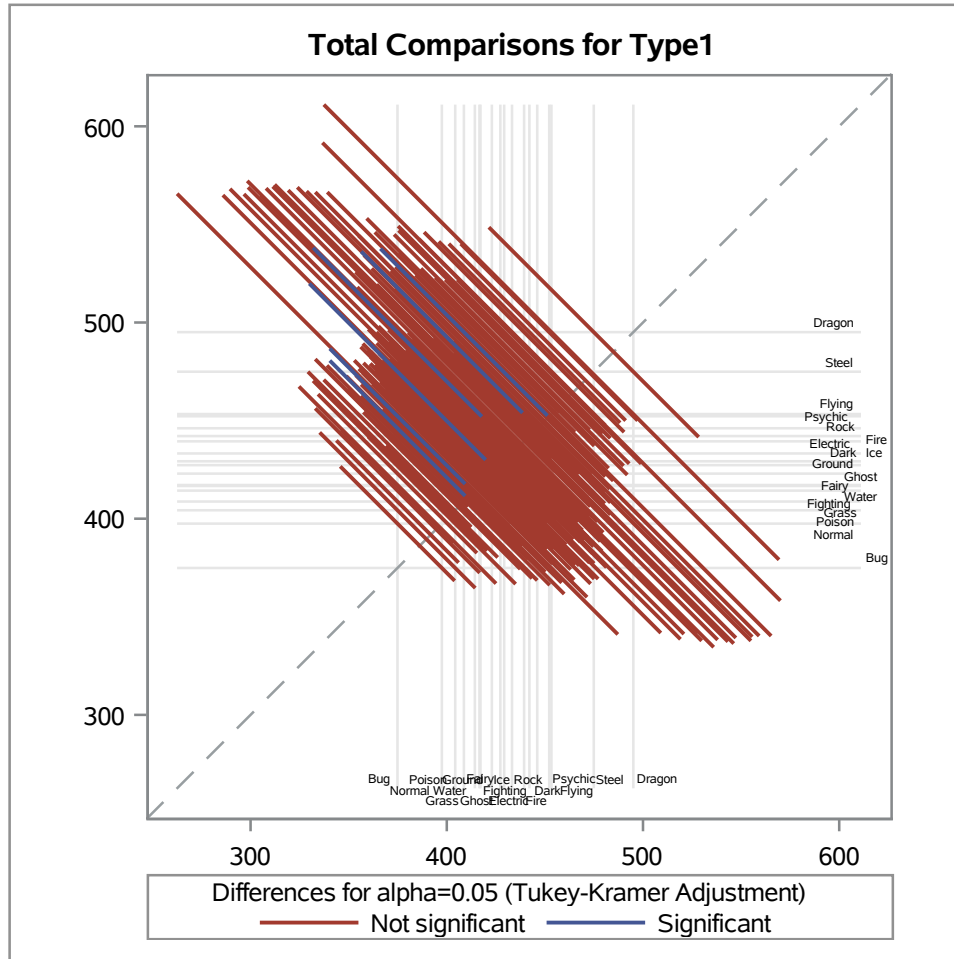
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Least Squares Means for effect Type1 Pr > t for H0: LSMean(i)=LSMean(j)						
Dependent Variable: Total						
i/j	13	14	15	16	17	18
1	0.9970	0.9982	0.0115	0.0998	0.0127	0.4935
2	0.9333	0.9986	1.0000	1.0000	0.9995	0.9999
3	0.0047	0.1107	0.9725	0.8658	1.0000	0.0761
4	0.9519	0.9997	1.0000	1.0000	0.9917	1.0000
5	1.0000	1.0000	0.9995	1.0000	0.9662	1.0000
6	1.0000	1.0000	0.9901	0.9998	0.8606	1.0000
7	0.4185	0.9568	1.0000	1.0000	0.9998	0.9782
8	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
9	0.9987	1.0000	1.0000	1.0000	0.9858	1.0000
10	1.0000	1.0000	0.7241	0.9749	0.4520	1.0000
11	0.9996	1.0000	0.9993	1.0000	0.9522	1.0000
12	0.9987	1.0000	1.0000	1.0000	0.9941	1.0000
13		1.0000	0.2113	0.6704	0.1417	0.9982
14	1.0000		0.8676	0.9879	0.5832	1.0000
15	0.2113	0.8676		1.0000	1.0000	0.8855
16	0.6704	0.9879	1.0000		0.9994	0.9974
17	0.1417	0.5832	1.0000	0.9994		0.6218
18	0.9982	1.0000	0.8855	0.9974	0.6218	

Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer



Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer



Class Level Information		
Class	Levels	Values
Type1	18	Bug Dark Dragon Electric Fairy Fighting Fire Flying Ghost Grass Ground Ice Normal Poison Psychic Rock Steel Water

Number of Observations Read	807
Number of Observations Used	807

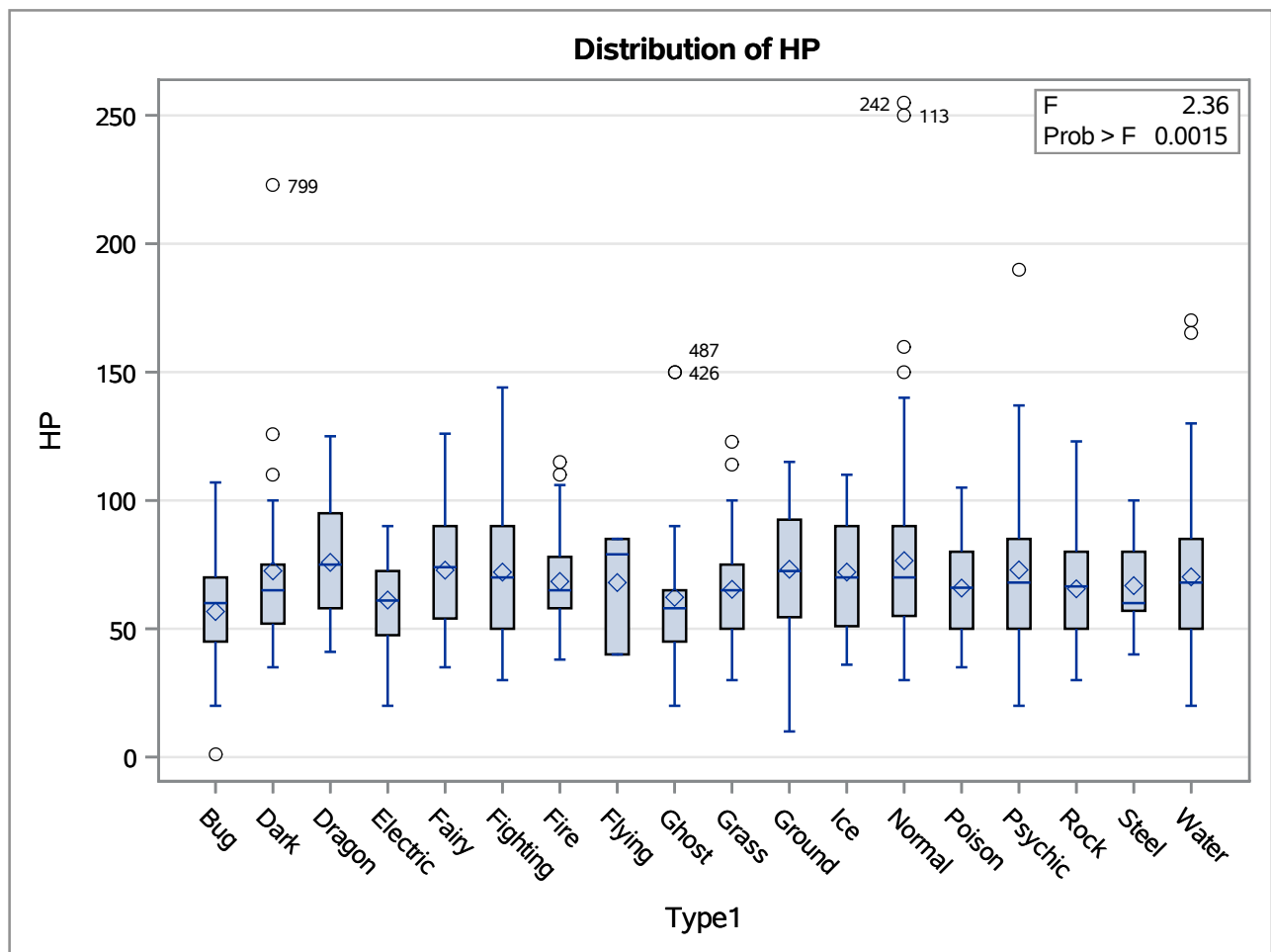
Dependent Variable: HP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	17	26406.7293	1553.3370	2.36	0.0015
Error	789	519374.6486	658.2695		
Corrected Total	806	545781.3779			

R-Square	Coeff Var	Root MSE	HP Mean
0.048383	37.33323	25.65676	68.72367

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Type1	17	26406.72930	1553.33702	2.36	0.0015

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Type1	17	26406.72930	1553.33702	2.36	0.0015



Levene's Test for Homogeneity of HP Variance ANOVA of Squared Deviations from Group Means					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Type1	17	90998843	5352873	1.37	0.1450
Error	789	3.088E9	3913789		

Welch's ANOVA for HP			
Source	DF	F Value	Pr > F
Type1	17.0000	2.77	0.0007
Error	114.0		

Level of Type1	N	HP	
		Mean	Std Dev
Bug	72	56.72222222	17.6525322
Dark	29	72.5517241	36.0630264
Dragon	27	75.8518519	22.8754213
Electric	40	61.2000000	17.8314042
Fairy	18	72.8333333	23.5228300
Fighting	29	72.0689655	26.5329055
Fire	53	68.4339623	19.1195726
Flying	3	68.0000000	24.4335834
Ghost	27	62.2592593	29.8117073
Grass	78	65.3589744	18.7214540
Ground	32	73.1875000	25.5184152
Ice	23	72.0869565	21.7609179
Normal	105	76.5333333	35.5238454
Poison	34	65.8529412	18.5654165
Psychic	53	72.9433962	31.5078837
Rock	46	65.5652174	21.1120315
Steel	24	66.7916667	17.7738919
Water	114	70.2192982	27.1419601

Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Type1	HP LSMEAN	LSMEAN Number
Bug	56.7222222	1
Dark	72.5517241	2
Dragon	75.8518519	3
Electric	61.2000000	4
Fairy	72.8333333	5
Fighting	72.0689655	6
Fire	68.4339623	7
Flying	68.0000000	8
Ghost	62.2592593	9
Grass	65.3589744	10
Ground	73.1875000	11
Ice	72.0869565	12
Normal	76.5333333	13
Poison	65.8529412	14
Psychic	72.9433962	15
Rock	65.5652174	16
Steel	66.7916667	17
Water	70.2192982	18

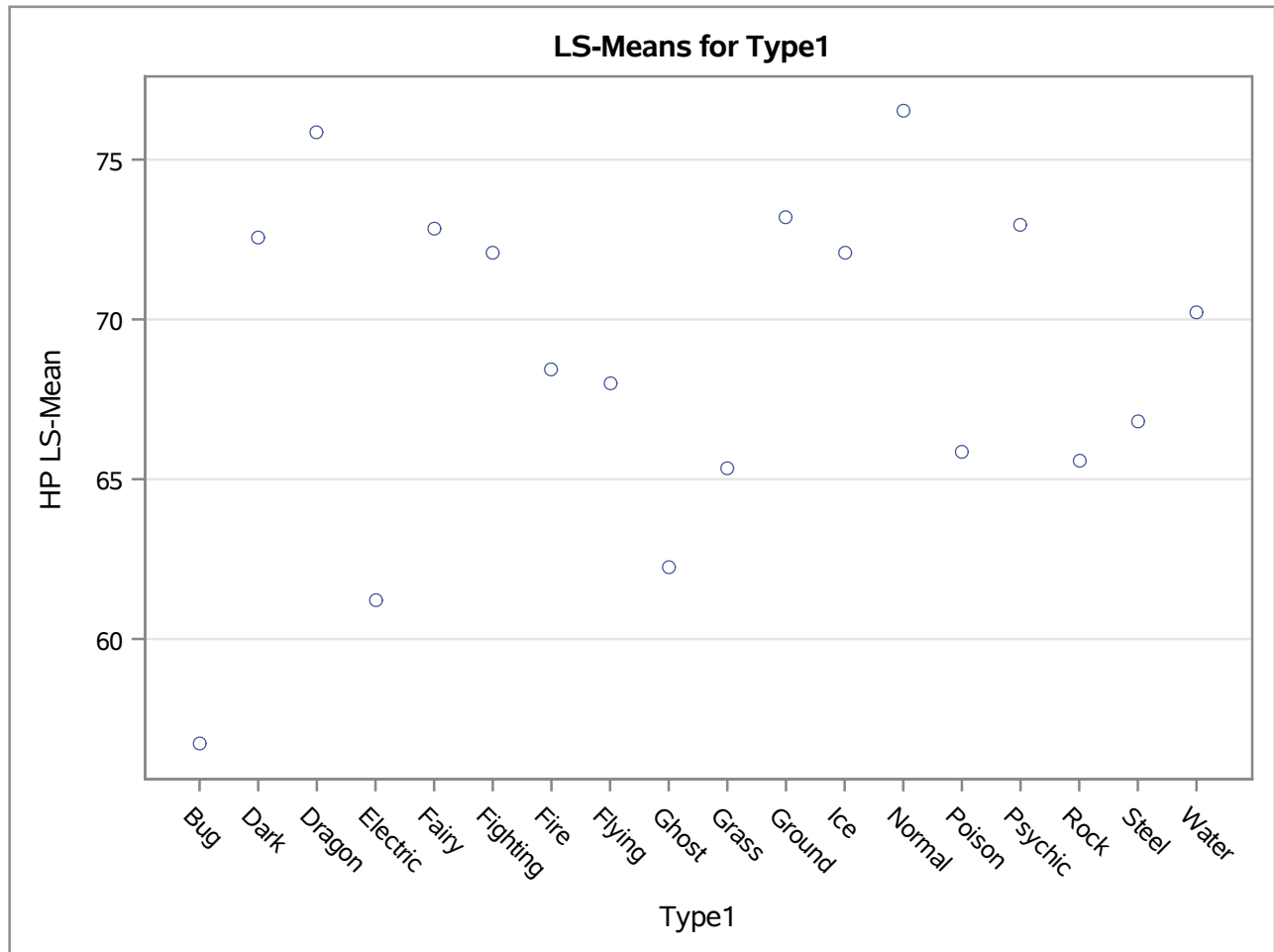
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Least Squares Means for effect Type1 Pr > t for H0: LSMean(i)=LSMean(j)												
Dependent Variable: HP												
i/j	1	2	3	4	5	6	7	8	9	10	11	12
1		0.3116	0.0908	1.0000	0.6212	0.3684	0.5140	1.0000	1.0000	0.8383	0.1928	0.5308
2	0.3116		1.0000	0.9396	1.0000	1.0000	1.0000	1.0000	0.9905	0.9984	1.0000	1.0000
3	0.0908	1.0000		0.6885	1.0000	1.0000	0.9991	1.0000	0.8929	0.9345	1.0000	1.0000
4	1.0000	0.9396	0.6885		0.9817	0.9589	0.9972	1.0000	1.0000	1.0000	0.8827	0.9787
5	0.6212	1.0000	1.0000	0.9817		1.0000	1.0000	1.0000	0.9970	0.9997	1.0000	1.0000
6	0.3684	1.0000	1.0000	0.9589	1.0000		1.0000	1.0000	0.9944	0.9993	1.0000	1.0000
7	0.5140	1.0000	0.9991	0.9972	1.0000	1.0000		1.0000	0.9999	1.0000	1.0000	1.0000
8	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000		1.0000	1.0000	1.0000	1.0000
9	1.0000	0.9905	0.8929	1.0000	0.9970	0.9944	0.9999	1.0000		1.0000	0.9776	0.9971
10	0.8383	0.9984	0.9345	1.0000	0.9997	0.9993	1.0000	1.0000	1.0000		0.9933	0.9998
11	0.1928	1.0000	1.0000	0.8827	1.0000	1.0000	1.0000	1.0000	0.9776	0.9933		1.0000
12	0.5308	1.0000	1.0000	0.9787	1.0000	1.0000	1.0000	1.0000	0.9971	0.9998	1.0000	
13	<.0001	1.0000	1.0000	0.1162	1.0000	1.0000	0.9209	1.0000	0.4711	0.2473	1.0000	1.0000
14	0.9644	0.9999	0.9897	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9996	1.0000
15	0.0512	1.0000	1.0000	0.7630	1.0000	1.0000	1.0000	1.0000	0.9534	0.9731	1.0000	1.0000
16	0.9361	0.9996	0.9742	1.0000	0.9999	0.9999	1.0000	1.0000	1.0000	1.0000	0.9983	0.9999
17	0.9724	1.0000	0.9988	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
18	0.0509	1.0000	0.9999	0.9065	1.0000	1.0000	1.0000	1.0000	0.9935	0.9984	1.0000	1.0000

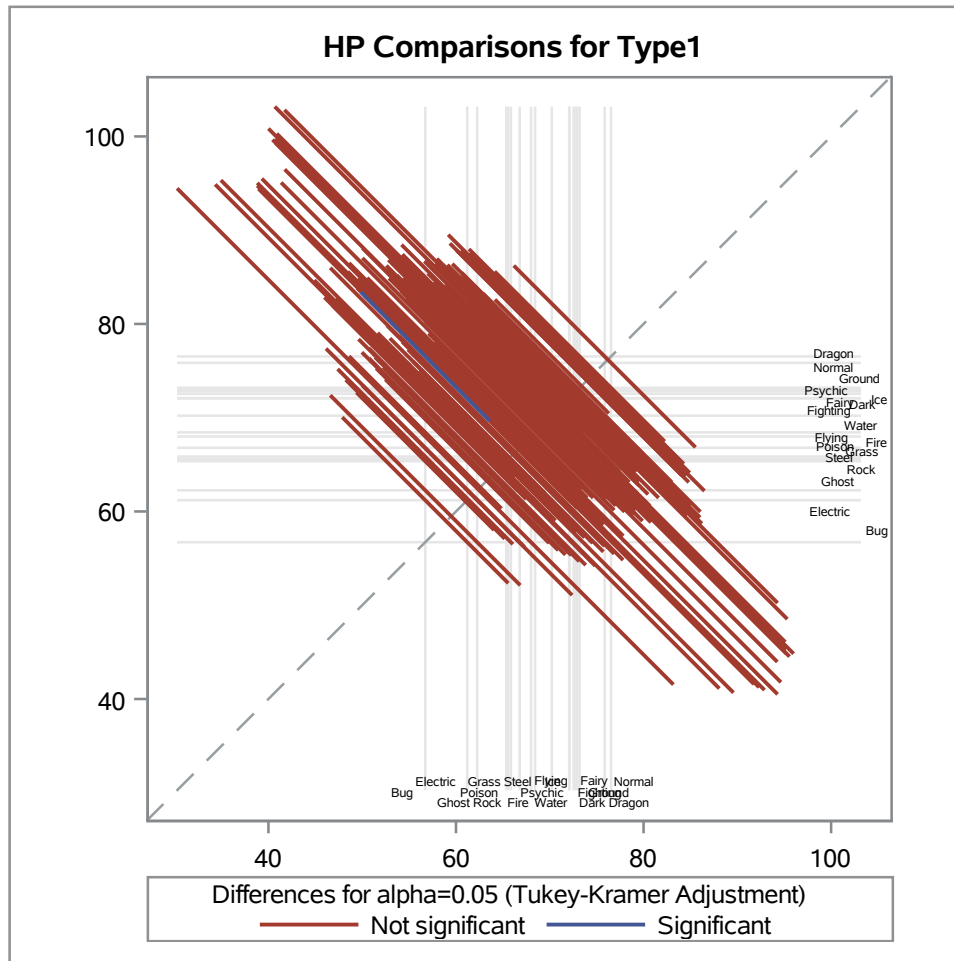
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Least Squares Means for effect Type1 Pr > t for H0: LSMean(i)=LSMean(j)						
Dependent Variable: HP						
i/j	13	14	15	16	17	18
1	<.0001	0.9644	0.0512	0.9361	0.9724	0.0509
2	1.0000	0.9999	1.0000	0.9996	1.0000	1.0000
3	1.0000	0.9897	1.0000	0.9742	0.9988	0.9999
4	0.1162	1.0000	0.7630	1.0000	1.0000	0.9065
5	1.0000	1.0000	1.0000	0.9999	1.0000	1.0000
6	1.0000	1.0000	1.0000	0.9999	1.0000	1.0000
7	0.9209	1.0000	1.0000	1.0000	1.0000	1.0000
8	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
9	0.4711	1.0000	0.9534	1.0000	1.0000	0.9935
10	0.2473	1.0000	0.9731	1.0000	1.0000	0.9984
11	1.0000	0.9996	1.0000	0.9983	1.0000	1.0000
12	1.0000	1.0000	1.0000	0.9999	1.0000	1.0000
13		0.8101	1.0000	0.5945	0.9703	0.9381
14	0.8101		0.9988	1.0000	1.0000	1.0000
15	1.0000	0.9988		0.9946	1.0000	1.0000
16	0.5945	1.0000	0.9946		1.0000	0.9999
17	0.9703	1.0000	1.0000	1.0000		1.0000
18	0.9381	1.0000	1.0000	0.9999	1.0000	

Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer



Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer



Class Level Information		
Class	Levels	Values
Type1	18	Bug Dark Dragon Electric Fairy Fighting Fire Flying Ghost Grass Ground Ice Normal Poison Psychic Rock Steel Water

Number of Observations Read	807
Number of Observations Used	807

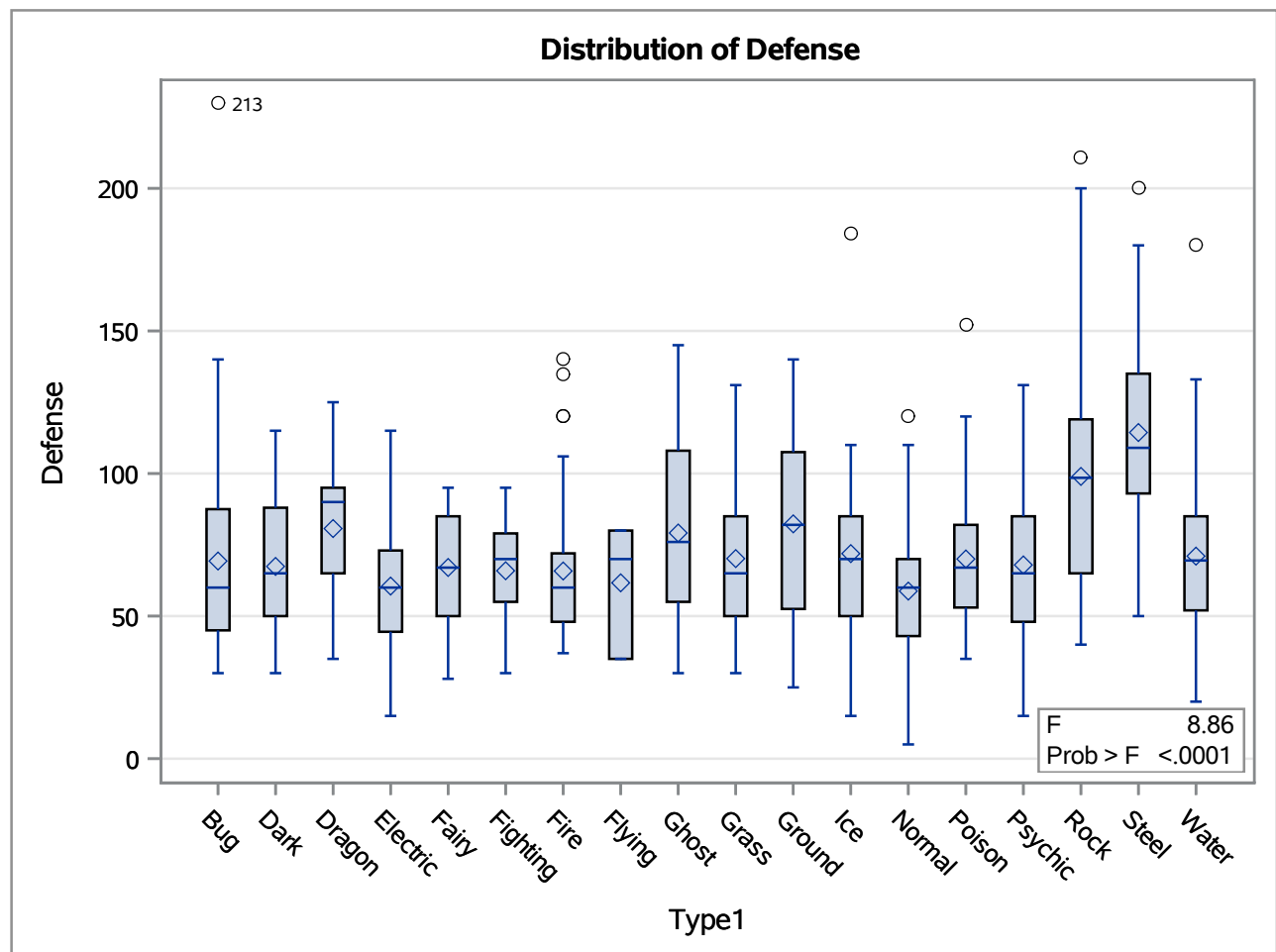
Dependent Variable: Defense

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	17	113336.9518	6666.8795	8.86	<.0001
Error	789	593408.3642	752.1019		
Corrected Total	806	706745.3160			

R-Square	Coeff Var	Root MSE	Defense Mean
0.160365	38.30115	27.42448	71.60223

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Type1	17	113336.9518	6666.8795	8.86	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Type1	17	113336.9518	6666.8795	8.86	<.0001



Levene's Test for Homogeneity of Defense Variance ANOVA of Squared Deviations from Group Means					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Type1	17	80613872	4741992	2.14	0.0047
Error	789	1.7472E9	2214448		

Welch's ANOVA for Defense			
Source	DF	F Value	Pr > F
Type1	17.0000	6.20	<.0001
Error	114.1		

Level of Type1	N	Defense	
		Mean	Std Dev
Bug	72	69.319444	33.2675142
Dark	29	67.413793	23.5319194
Dragon	27	80.703704	23.3053556
Electric	40	60.525000	19.9344921
Fairy	18	67.055556	19.2826415
Fighting	29	65.896552	18.0304204
Fire	53	65.811321	24.0664597
Flying	3	61.666667	23.6290781
Ghost	27	79.148148	32.9074503
Grass	78	70.166667	24.8603459
Ground	32	82.343750	31.0894748
Ice	23	71.913043	34.2861131
Normal	105	58.761905	22.4398871
Poison	34	70.029412	24.5115746
Psychic	53	67.943396	27.8963846
Rock	46	98.978261	40.6149885
Steel	24	114.375000	34.1503231
Water	114	71.026316	26.2326084

Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Type1	Defense LSMEAN	LSMEAN Number
Bug	69.319444	1
Dark	67.413793	2
Dragon	80.703704	3
Electric	60.525000	4
Fairy	67.055556	5
Fighting	65.896552	6
Fire	65.811321	7
Flying	61.666667	8
Ghost	79.148148	9
Grass	70.166667	10
Ground	82.343750	11
Ice	71.913043	12
Normal	58.761905	13
Poison	70.029412	14
Psychic	67.943396	15
Rock	98.978261	16
Steel	114.375000	17
Water	71.026316	18

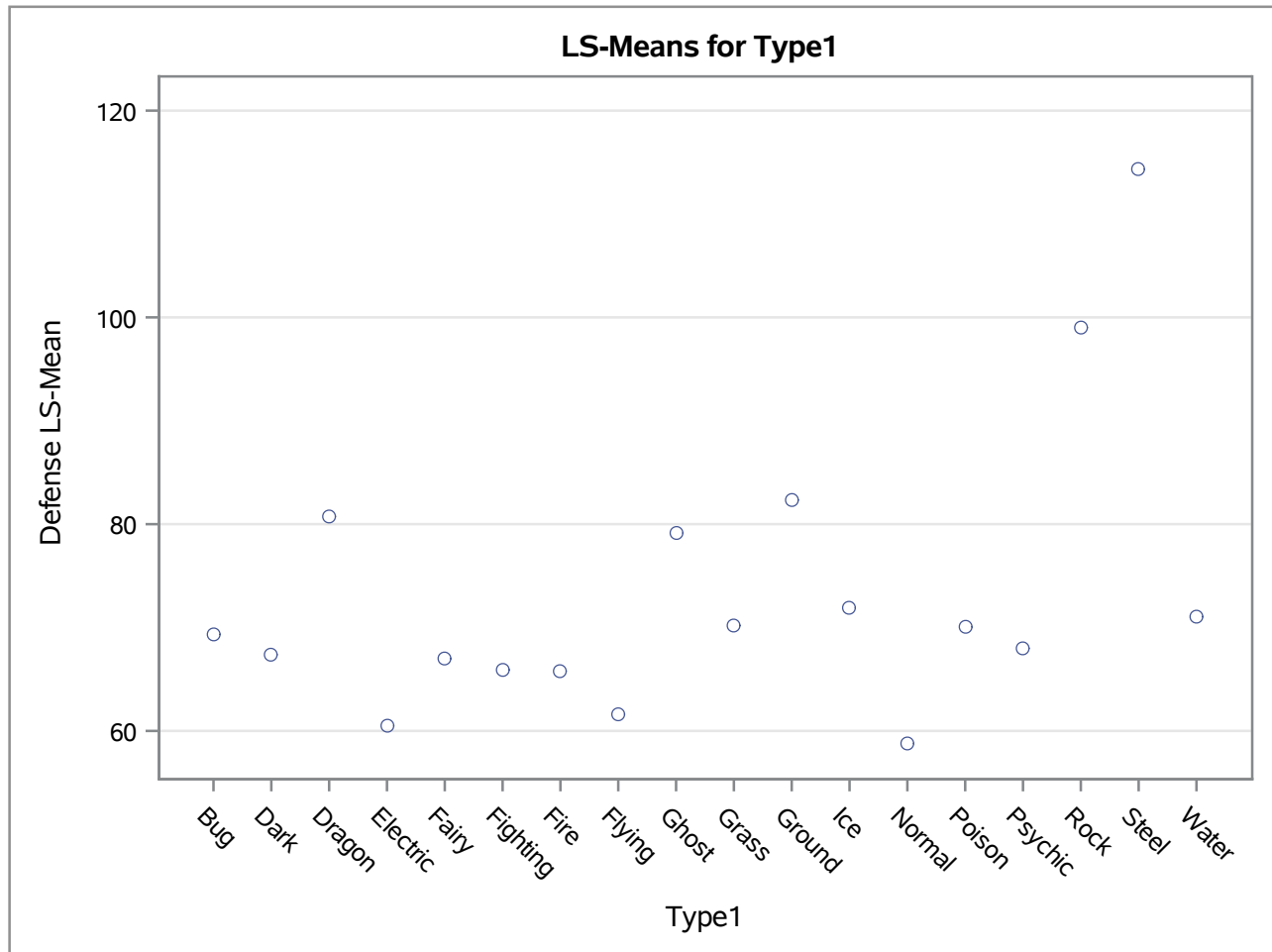
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Least Squares Means for effect Type1 Pr > t for H0: LSMean(i)=LSMean(j)												
Dependent Variable: Defense												
i/j	1	2	3	4	5	6	7	8	9	10	11	12
1		1.0000	0.9320	0.9781	1.0000	1.0000	1.0000	1.0000	0.9828	1.0000	0.7293	1.0000
2	1.0000		0.9402	0.9999	1.0000	1.0000	1.0000	1.0000	0.9814	1.0000	0.8020	1.0000
3	0.9320	0.9402		0.2256	0.9768	0.8595	0.6856	0.9997	1.0000	0.9623	1.0000	0.9997
4	0.9781	0.9999	0.2256		1.0000	1.0000	1.0000	1.0000	0.3638	0.9414	0.0783	0.9829
5	1.0000	1.0000	0.9768	1.0000		1.0000	1.0000	1.0000	0.9935	1.0000	0.9143	1.0000
6	1.0000	1.0000	0.8595	1.0000	1.0000		1.0000	1.0000	0.9417	1.0000	0.6542	1.0000
7	1.0000	1.0000	0.6856	1.0000	1.0000	1.0000		1.0000	0.8399	1.0000	0.3872	1.0000
8	1.0000	1.0000	0.9997	1.0000	1.0000	1.0000	1.0000		0.9999	1.0000	0.9989	1.0000
9	0.9828	0.9814	1.0000	0.3638	0.9935	0.9417	0.8399	0.9999		0.9926	1.0000	1.0000
10	1.0000	1.0000	0.9623	0.9414	1.0000	1.0000	1.0000	1.0000	0.9926		0.8069	1.0000
11	0.7293	0.8020	1.0000	0.0783	0.9143	0.6542	0.3872	0.9989	1.0000	0.8069		0.9959
12	1.0000	1.0000	0.9997	0.9829	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9959	
13	0.5187	0.9903	0.0251	1.0000	0.9994	0.9990	0.9887	1.0000	0.0595	0.3265	0.0030	0.8255
14	1.0000	1.0000	0.9898	0.9915	1.0000	1.0000	1.0000	1.0000	0.9983	1.0000	0.9370	1.0000
15	1.0000	1.0000	0.8836	0.9983	1.0000	1.0000	1.0000	1.0000	0.9609	1.0000	0.6495	1.0000
16	<.0001	0.0002	0.3487	<.0001	0.0041	<.0001	<.0001	0.6954	0.2112	<.0001	0.4288	0.0143
17	<.0001	<.0001	0.0018	<.0001	<.0001	<.0001	<.0001	0.1432	0.0008	<.0001	0.0023	<.0001
18	1.0000	1.0000	0.9749	0.8251	1.0000	1.0000	0.9996	1.0000	0.9962	1.0000	0.8367	1.0000

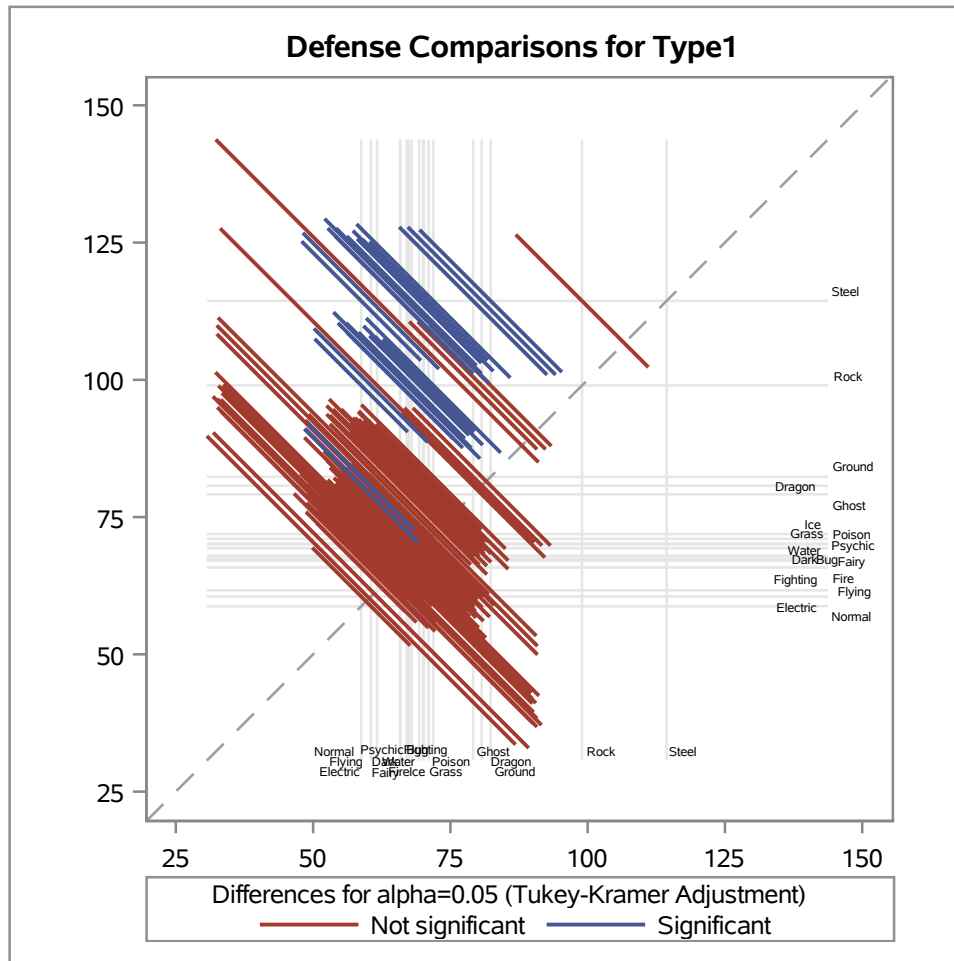
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Least Squares Means for effect Type1 Pr > t for H0: LSMean(i)=LSMean(j)						
Dependent Variable: Defense						
i/j	13	14	15	16	17	18
1	0.5187	1.0000	1.0000	<.0001	<.0001	1.0000
2	0.9903	1.0000	1.0000	0.0002	<.0001	1.0000
3	0.0251	0.9898	0.8836	0.3487	0.0018	0.9749
4	1.0000	0.9915	0.9983	<.0001	<.0001	0.8251
5	0.9994	1.0000	1.0000	0.0041	<.0001	1.0000
6	0.9990	1.0000	1.0000	<.0001	<.0001	1.0000
7	0.9887	1.0000	1.0000	<.0001	<.0001	0.9996
8	1.0000	1.0000	1.0000	0.6954	0.1432	1.0000
9	0.0595	0.9983	0.9609	0.2112	0.0008	0.9962
10	0.3265	1.0000	1.0000	<.0001	<.0001	1.0000
11	0.0030	0.9370	0.6495	0.4288	0.0023	0.8367
12	0.8255	1.0000	1.0000	0.0143	<.0001	1.0000
13		0.8260	0.8750	<.0001	<.0001	0.0902
14	0.8260		1.0000	0.0005	<.0001	1.0000
15	0.8750	1.0000		<.0001	<.0001	1.0000
16	<.0001	0.0005	<.0001		0.7332	<.0001
17	<.0001	<.0001	<.0001	0.7332		<.0001
18	0.0902	1.0000	1.0000	<.0001	<.0001	

Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer



Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer



Class Level Information		
Class	Levels	Values
Type1	18	Bug Dark Dragon Electric Fairy Fighting Fire Flying Ghost Grass Ground Ice Normal Poison Psychic Rock Steel Water

Number of Observations Read	807
Number of Observations Used	807

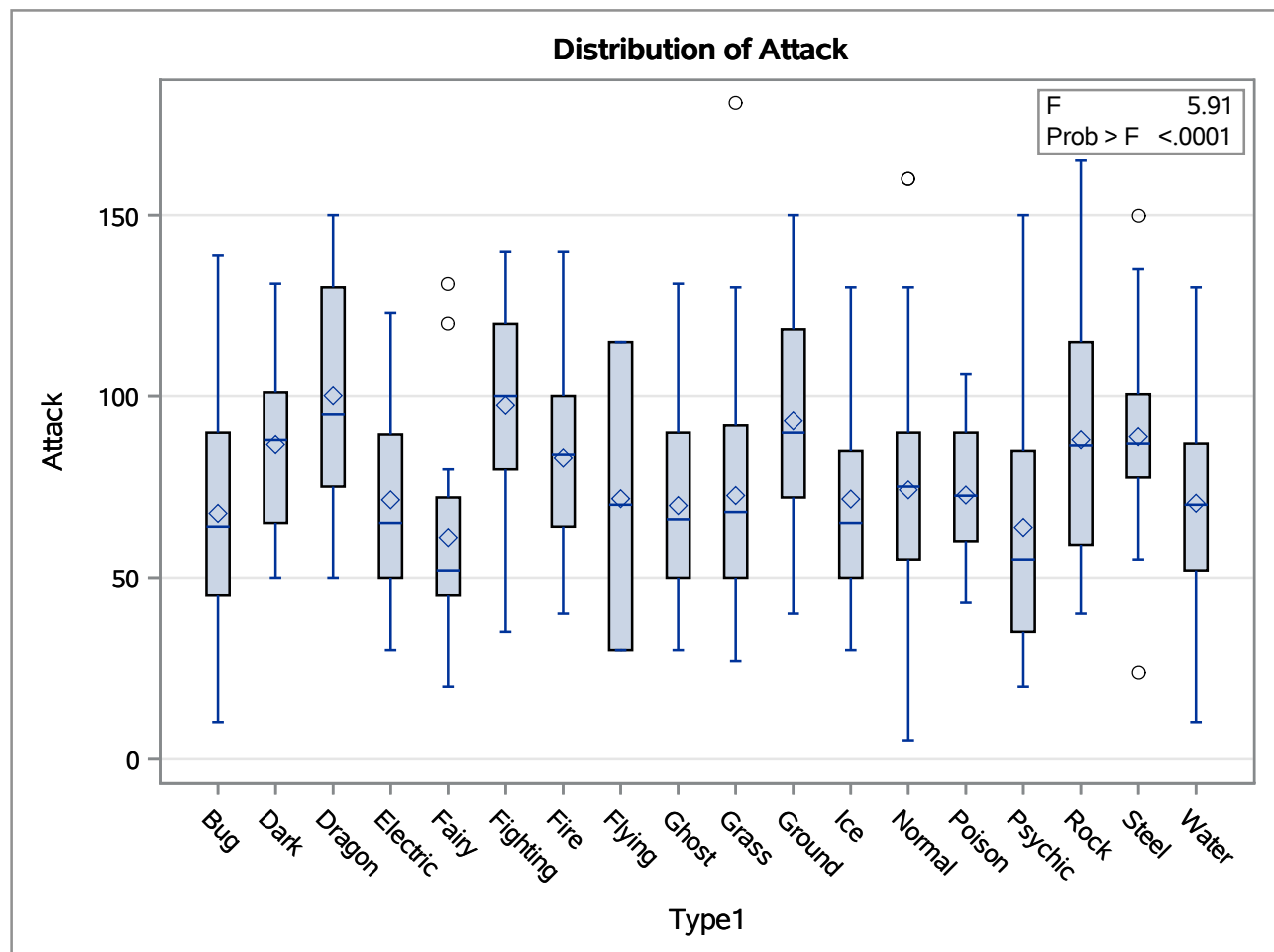
Dependent Variable: Attack

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	17	79979.2642	4704.6626	5.91	<.0001
Error	789	628334.9241	796.3687		
Corrected Total	806	708314.1884			

R-Square	Coeff Var	Root MSE	Attack Mean
0.112915	37.02895	28.22001	76.21066

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Type1	17	79979.26423	4704.66260	5.91	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Type1	17	79979.26423	4704.66260	5.91	<.0001



Levene's Test for Homogeneity of Attack Variance ANOVA of Squared Deviations from Group Means					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Type1	17	26542244	1561308	1.34	0.1605
Error	789	9.1959E8	1165508		

Welch's ANOVA for Attack			
Source	DF	F Value	Pr > F
Type1	17.0000	5.26	<.0001
Error	113.8		

Level of Type1	N	Attack	
		Mean	Std Dev
Bug	72	67.625000	32.4542744
Dark	29	86.758621	24.0544845
Dragon	27	100.111111	29.8229820
Electric	40	71.350000	26.3998349
Fairy	18	61.000000	28.9502616
Fighting	29	97.482759	27.5507592
Fire	53	83.094340	25.2291530
Flying	3	71.666667	42.5245027
Ghost	27	69.777778	26.8146535
Grass	78	72.538462	28.6209860
Ground	32	93.250000	28.2842712
Ice	23	71.565217	27.5958266
Normal	105	74.104762	29.2117349
Poison	34	72.676471	19.2601340
Psychic	53	63.773585	33.3528003
Rock	46	88.065217	32.1962056
Steel	24	88.916667	26.1682128
Water	114	70.412281	24.9380867

Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Type1	Attack LSMEAN	LSMEAN Number
Bug	67.625000	1
Dark	86.758621	2
Dragon	100.111111	3
Electric	71.350000	4
Fairy	61.000000	5
Fighting	97.482759	6
Fire	83.094340	7
Flying	71.666667	8
Ghost	69.777778	9
Grass	72.538462	10
Ground	93.250000	11
Ice	71.565217	12
Normal	74.104762	13
Poison	72.676471	14
Psychic	63.773585	15
Rock	88.065217	16
Steel	88.916667	17
Water	70.412281	18

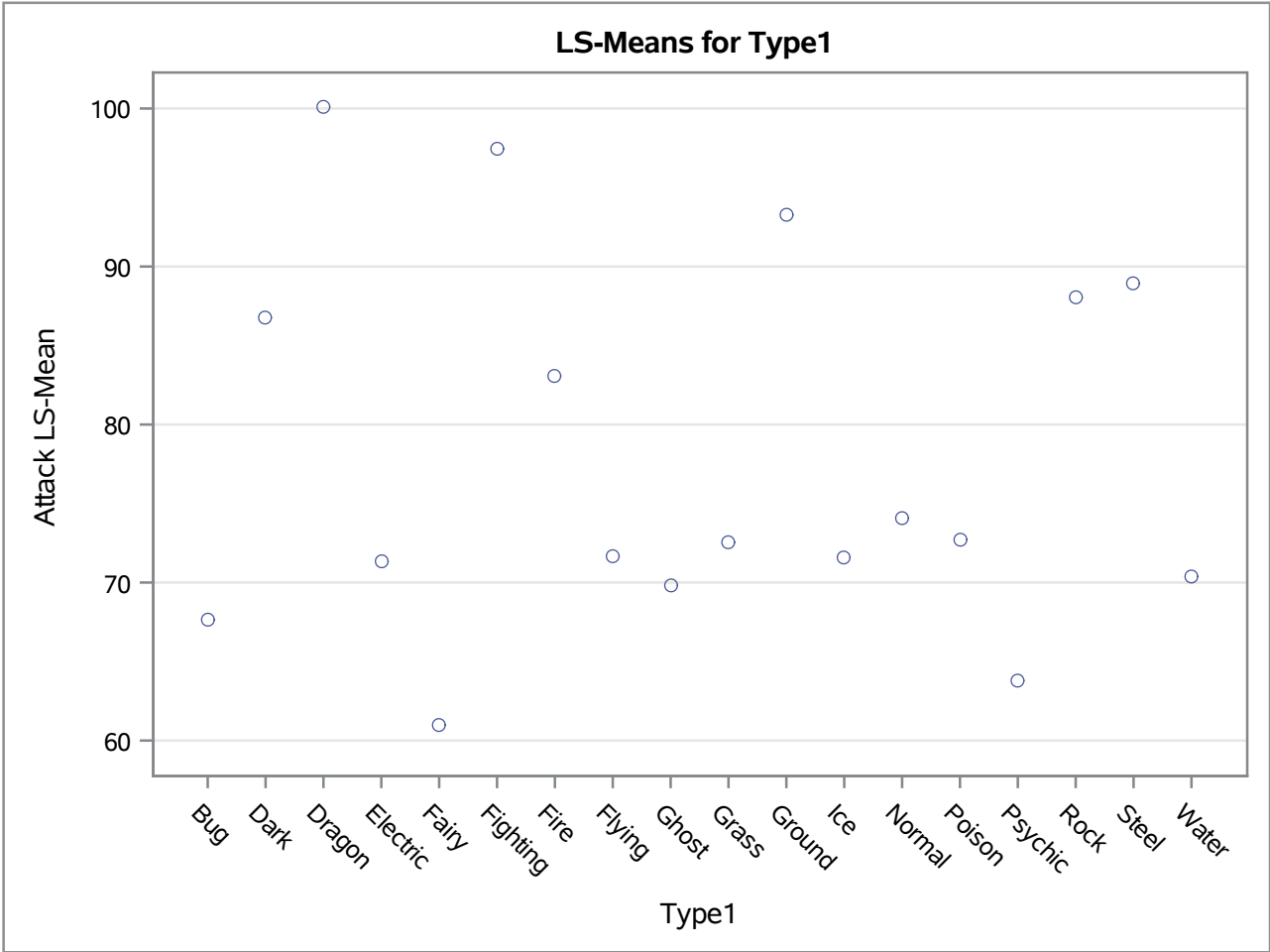
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Least Squares Means for effect Type1 Pr > t for H0: LSMean(i)=LSMean(j)												
Dependent Variable: Attack												
i/j	1	2	3	4	5	6	7	8	9	10	11	12
1		0.1653	<.0001	1.0000	1.0000	0.0003	0.1890	1.0000	1.0000	0.9999	0.0029	1.0000
2	0.1653		0.9515	0.7269	0.1830	0.9936	1.0000	1.0000	0.7190	0.6708	1.0000	0.9004
3	<.0001	0.9515		0.0060	0.0008	1.0000	0.4924	0.9738	0.0104	0.0019	1.0000	0.0406
4	1.0000	0.7269	0.0060		0.9983	0.0183	0.8749	1.0000	1.0000	1.0000	0.0995	1.0000
5	1.0000	0.1830	0.0008	0.9983		0.0025	0.2722	1.0000	0.9999	0.9853	0.0136	0.9994
6	0.0003	0.9936	1.0000	0.0183	0.0025		0.7483	0.9899	0.0285	0.0067	1.0000	0.0947
7	0.1890	1.0000	0.4924	0.8749	0.2722	0.7483		1.0000	0.8708	0.8150	0.9805	0.9767
8	1.0000	1.0000	0.9738	1.0000	1.0000	0.9899	1.0000		1.0000	1.0000	0.9987	1.0000
9	1.0000	0.7190	0.0104	1.0000	0.9999	0.0285	0.8708	1.0000		1.0000	0.1273	1.0000
10	0.9999	0.6708	0.0019	1.0000	0.9853	0.0067	0.8150	1.0000	1.0000		0.0507	1.0000
11	0.0029	1.0000	1.0000	0.0995	0.0136	1.0000	0.9805	0.9987	0.1273	0.0507		0.3080
12	1.0000	0.9004	0.0406	1.0000	0.9994	0.0947	0.9767	1.0000	1.0000	1.0000	0.3080	
13	0.9905	0.7934	0.0029	1.0000	0.9378	0.0104	0.9148	1.0000	1.0000	1.0000	0.0771	1.0000
14	1.0000	0.8808	0.0200	1.0000	0.9949	0.0538	0.9699	1.0000	1.0000	1.0000	0.2226	1.0000
15	1.0000	0.0460	<.0001	0.9985	1.0000	<.0001	0.0463	1.0000	1.0000	0.9572	0.0005	0.9998
16	0.0158	1.0000	0.9536	0.3546	0.0587	0.9953	1.0000	1.0000	0.4012	0.2227	1.0000	0.6908
17	0.1212	1.0000	0.9951	0.5998	0.1309	0.9998	1.0000	0.9999	0.5947	0.5416	1.0000	0.8116
18	1.0000	0.3245	0.0002	1.0000	0.9979	0.0007	0.3799	1.0000	1.0000	1.0000	0.0072	1.0000

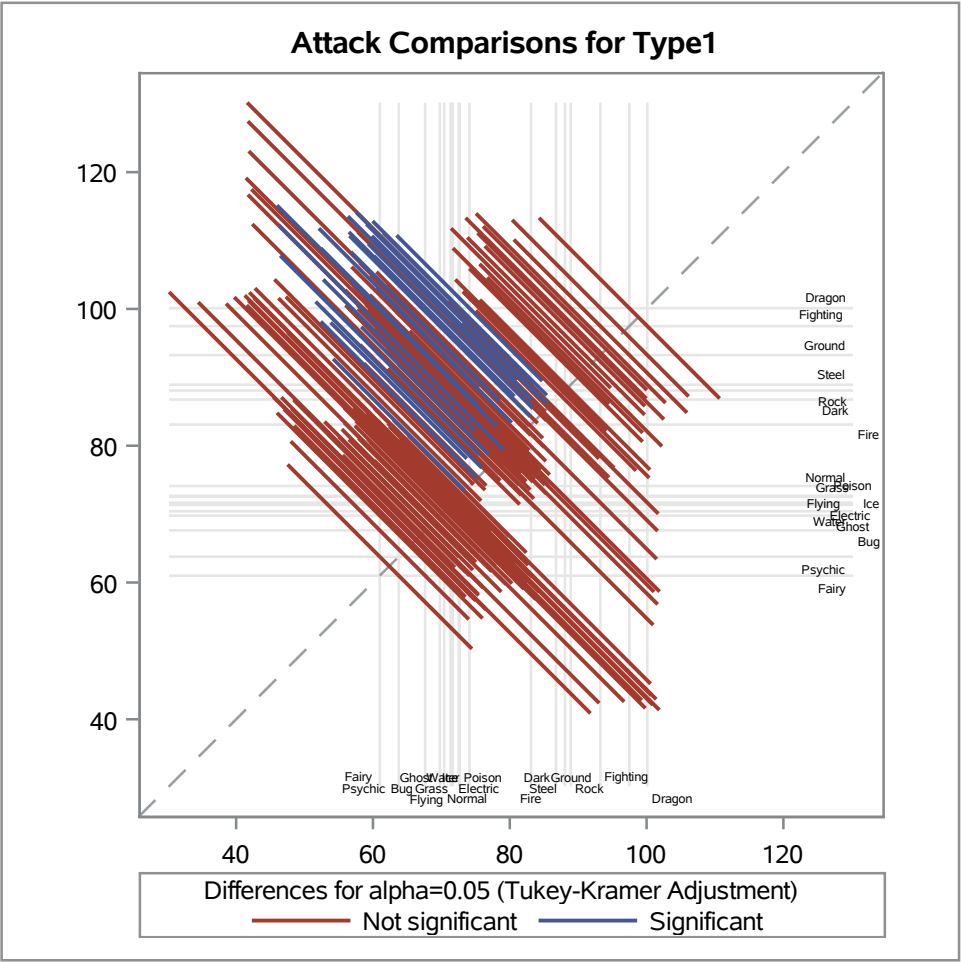
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Least Squares Means for effect Type1 Pr > t for H0: LSMean(i)=LSMean(j)						
Dependent Variable: Attack						
i/j	13	14	15	16	17	18
1	0.9905	1.0000	1.0000	0.0158	0.1212	1.0000
2	0.7934	0.8808	0.0460	1.0000	1.0000	0.3245
3	0.0029	0.0200	<.0001	0.9536	0.9951	0.0002
4	1.0000	1.0000	0.9985	0.3546	0.5998	1.0000
5	0.9378	0.9949	1.0000	0.0587	0.1309	0.9979
6	0.0104	0.0538	<.0001	0.9953	0.9998	0.0007
7	0.9148	0.9699	0.0463	1.0000	1.0000	0.3799
8	1.0000	1.0000	1.0000	1.0000	0.9999	1.0000
9	1.0000	1.0000	1.0000	0.4012	0.5947	1.0000
10	1.0000	1.0000	0.9572	0.2227	0.5416	1.0000
11	0.0771	0.2226	0.0005	1.0000	1.0000	0.0072
12	1.0000	1.0000	0.9998	0.6908	0.8116	1.0000
13		1.0000	0.7712	0.3163	0.6686	1.0000
14	1.0000		0.9942	0.5996	0.7802	1.0000
15	0.7712	0.9942		0.0029	0.0337	0.9951
16	0.3163	0.5996	0.0029		1.0000	0.0385
17	0.6686	0.7802	0.0337	1.0000		0.2440
18	1.0000	1.0000	0.9951	0.0385	0.2440	

Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer



Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer



Class Level Information		
Class	Levels	Values
Type1	18	Bug Dark Dragon Electric Fairy Fighting Fire Flying Ghost Grass Ground Ice Normal Poison Psychic Rock Steel Water

Number of Observations Read	807
Number of Observations Used	807

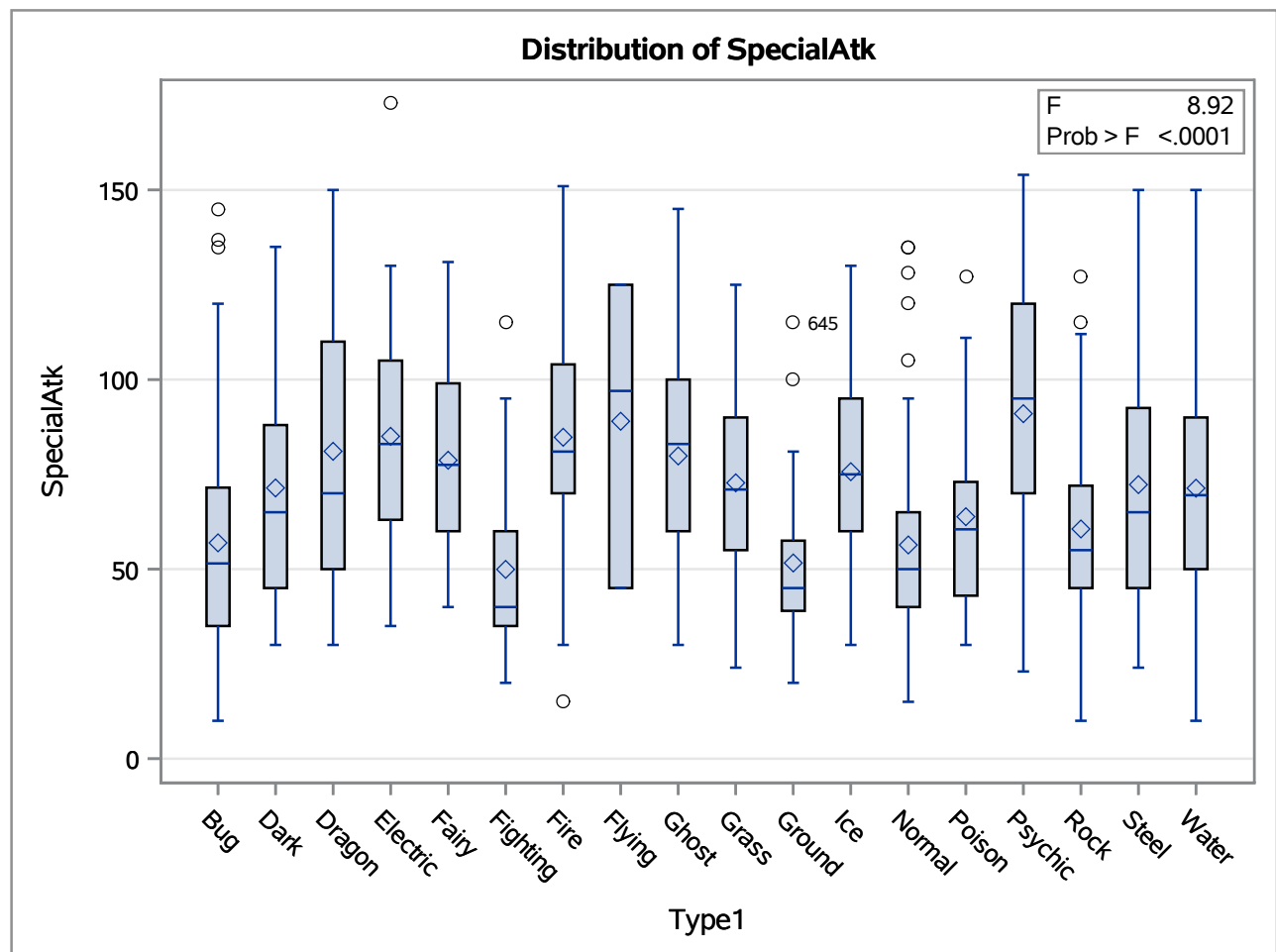
Dependent Variable: SpecialAtk

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	17	113619.1811	6683.4812	8.92	<.0001
Error	789	591028.6429	749.0857		
Corrected Total	806	704647.8240			

R-Square	Coeff Var	Root MSE	SpecialAtk Mean
0.161243	39.31773	27.36943	69.61090

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Type1	17	113619.1811	6683.4812	8.92	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Type1	17	113619.1811	6683.4812	8.92	<.0001



Levene's Test for Homogeneity of SpecialAtk Variance ANOVA of Squared Deviations from Group Means					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Type1	17	33775819	1986813	1.70	0.0371
Error	789	9.1964E8	1165580		

Welch's ANOVA for SpecialAtk			
Source	DF	F Value	Pr > F
Type1	17.0000	8.52	<.0001
Error	113.6		

Level of Type1	N	SpecialAtk	
		Mean	Std Dev
Bug	72	56.9305556	30.2865779
Dark	29	71.4137931	31.2015536
Dragon	27	81.0740741	35.3302289
Electric	40	85.0250000	29.8719382
Fairy	18	78.7222222	27.7081546
Fighting	29	49.9310345	22.1890112
Fire	53	84.7735849	26.2880797
Flying	3	89.0000000	40.5955663
Ghost	27	79.8518519	27.1090443
Grass	78	72.7564103	24.2712945
Ground	32	51.6250000	20.3354926
Ice	23	75.6956522	25.5830817
Normal	105	56.3714286	24.4262064
Poison	34	63.8235294	22.9009337
Psychic	53	91.0000000	33.0896219
Rock	46	60.5869565	25.3548821
Steel	24	72.2916667	35.2413778
Water	114	71.3421053	26.5819251

Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Type1	SpecialAtk LSMEAN	LSMEAN Number
Bug	56.9305556	1
Dark	71.4137931	2
Dragon	81.0740741	3
Electric	85.0250000	4
Fairy	78.7222222	5
Fighting	49.9310345	6
Fire	84.7735849	7
Flying	89.0000000	8
Ghost	79.8518519	9
Grass	72.7564103	10
Ground	51.6250000	11
Ice	75.6956522	12
Normal	56.3714286	13
Poison	63.8235294	14
Psychic	91.0000000	15
Rock	60.5869565	16
Steel	72.2916667	17
Water	71.3421053	18

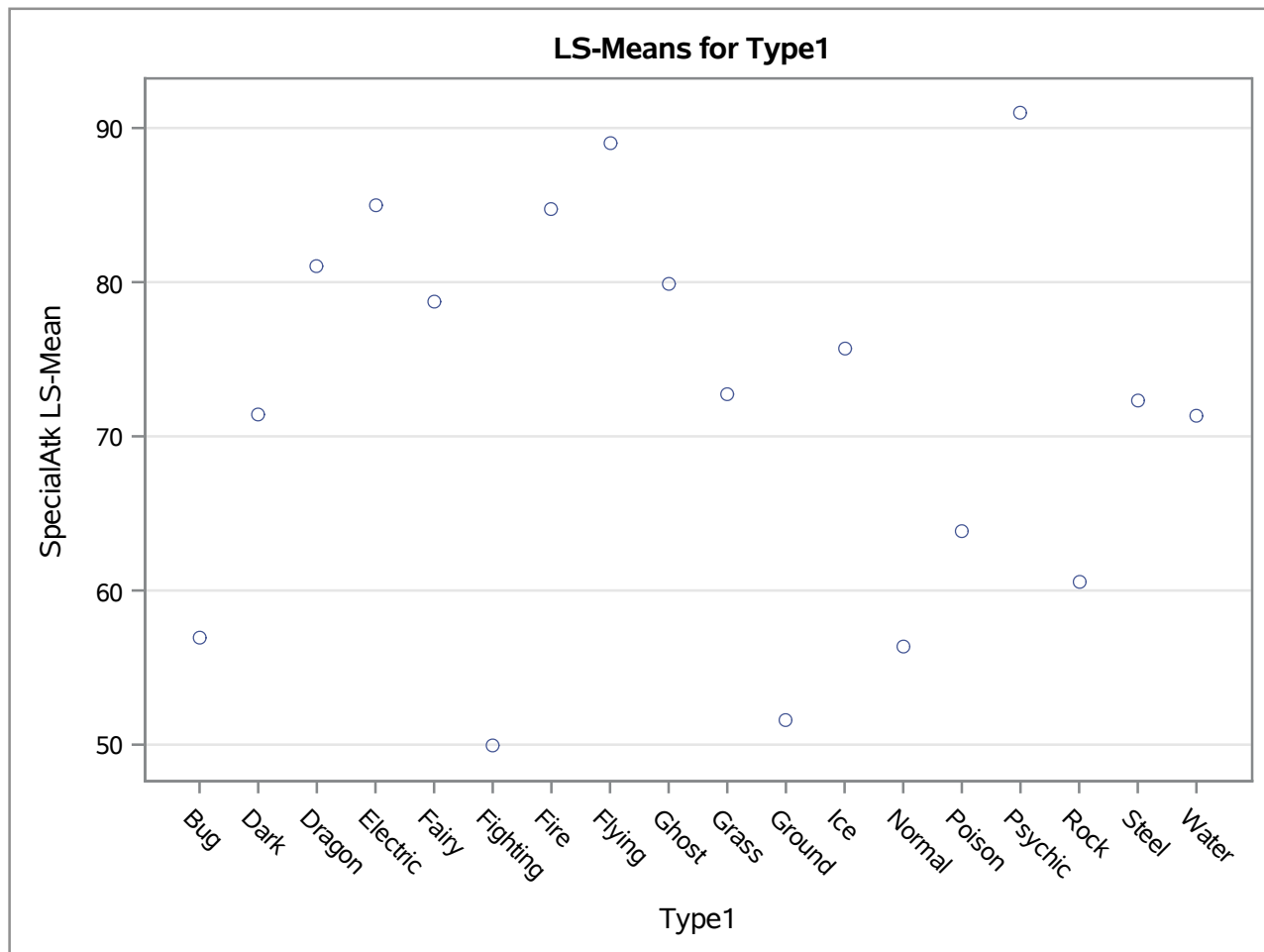
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Least Squares Means for effect Type1 Pr > t for H0: LSMean(i)=LSMean(j)												
Dependent Variable: SpecialAtk												
i/j	1	2	3	4	5	6	7	8	9	10	11	12
1		0.6035	0.0121	<.0001	0.1925	0.9996	<.0001	0.8742	0.0248	0.0443	1.0000	0.2765
2	0.6035		0.9978	0.8493	1.0000	0.2080	0.8080	0.9999	0.9996	1.0000	0.3023	1.0000
3	0.0121	0.9978		1.0000	1.0000	0.0031	1.0000	1.0000	1.0000	0.9968	0.0054	1.0000
4	<.0001	0.8493	1.0000		1.0000	<.0001	1.0000	1.0000	1.0000	0.6796	<.0001	0.9981
5	0.1925	1.0000	1.0000	1.0000		0.0492	1.0000	1.0000	1.0000	1.0000	0.0770	1.0000
6	0.9996	0.2080	0.0031	<.0001	0.0492		<.0001	0.6433	0.0061	0.0160	1.0000	0.0745
7	<.0001	0.8080	1.0000	1.0000	1.0000	<.0001		1.0000	1.0000	0.5569	<.0001	0.9976
8	0.8742	0.9999	1.0000	1.0000	1.0000	0.6433	1.0000		1.0000	0.9999	0.7109	1.0000
9	0.0248	0.9996	1.0000	1.0000	1.0000	0.0061	1.0000	1.0000		0.9996	0.0105	1.0000
10	0.0443	1.0000	0.9968	0.6796	1.0000	0.0160	0.5569	0.9999	0.9996		0.0278	1.0000
11	1.0000	0.3023	0.0054	<.0001	0.0770	1.0000	<.0001	0.7109	0.0105	0.0278		0.1160
12	0.2765	1.0000	1.0000	0.9981	1.0000	0.0745	0.9976	1.0000	1.0000	1.0000	0.1160	
13	1.0000	0.4399	0.0042	<.0001	0.1212	0.9997	<.0001	0.8509	0.0094	0.0084	1.0000	0.1721
14	0.9993	0.9998	0.5734	0.0865	0.9229	0.8649	0.0527	0.9885	0.7036	0.9827	0.9409	0.9806
15	<.0001	0.1590	0.9880	0.9999	0.9756	<.0001	0.9995	1.0000	0.9619	0.0220	<.0001	0.7264
16	1.0000	0.9719	0.1633	0.0051	0.6209	0.9759	0.0018	0.9578	0.2530	0.6144	0.9947	0.7783
17	0.6225	1.0000	0.9996	0.9431	1.0000	0.2222	0.9276	0.9999	1.0000	1.0000	0.3173	1.0000
18	0.0504	1.0000	0.9730	0.3679	0.9999	0.0208	0.2268	0.9998	0.9933	1.0000	0.0360	1.0000

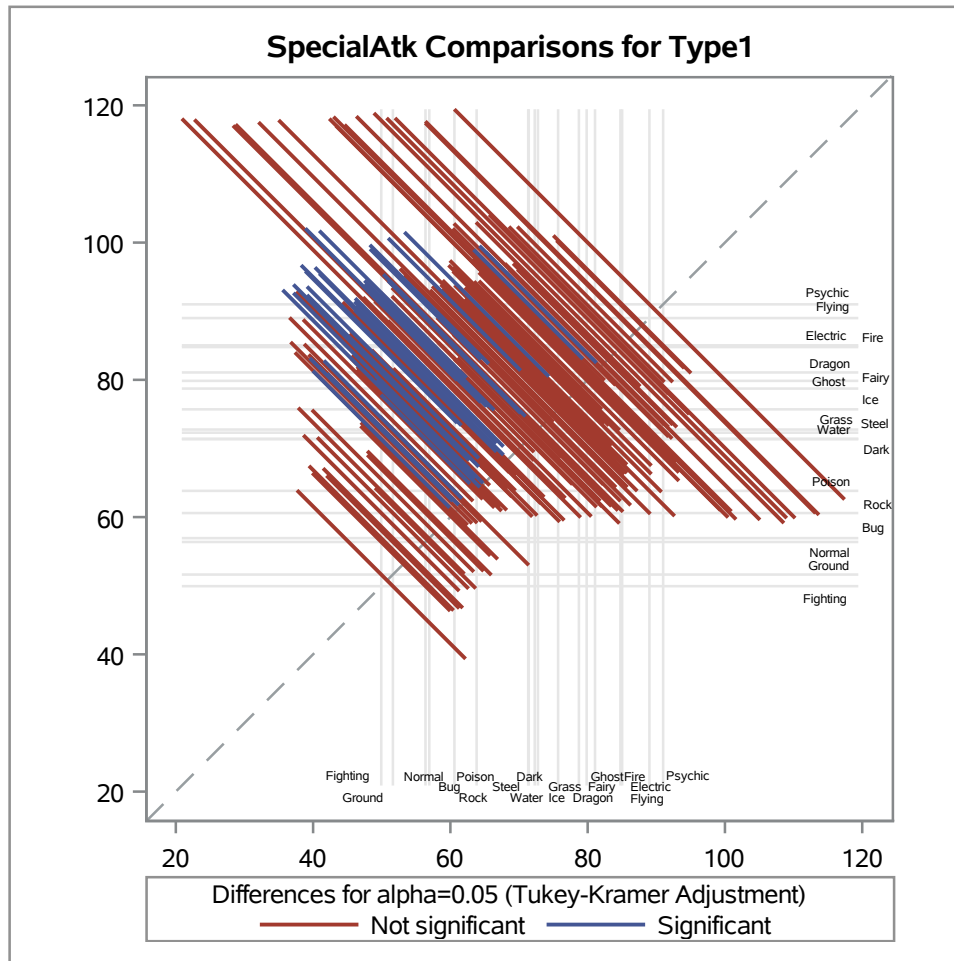
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Least Squares Means for effect Type1 Pr > t for H0: LSMean(i)=LSMean(j)						
Dependent Variable: SpecialAtk						
i/j	13	14	15	16	17	18
1	1.0000	0.9993	<.0001	1.0000	0.6225	0.0504
2	0.4399	0.9998	0.1590	0.9719	1.0000	1.0000
3	0.0042	0.5734	0.9880	0.1633	0.9996	0.9730
4	<.0001	0.0865	0.9999	0.0051	0.9431	0.3679
5	0.1212	0.9229	0.9756	0.6209	1.0000	0.9999
6	0.9997	0.8649	<.0001	0.9759	0.2222	0.0208
7	<.0001	0.0527	0.9995	0.0018	0.9276	0.2268
8	0.8509	0.9885	1.0000	0.9578	0.9999	0.9998
9	0.0094	0.7036	0.9619	0.2530	1.0000	0.9933
10	0.0084	0.9827	0.0220	0.6144	1.0000	1.0000
11	1.0000	0.9409	<.0001	0.9947	0.3173	0.0360
12	0.1721	0.9806	0.7264	0.7783	1.0000	1.0000
13		0.9963	<.0001	1.0000	0.4767	0.0072
14	0.9963		0.0010	1.0000	0.9996	0.9954
15	<.0001	0.0010		<.0001	0.3290	0.0024
16	1.0000	1.0000	<.0001		0.9667	0.7193
17	0.4767	0.9996	0.3290	0.9667		1.0000
18	0.0072	0.9954	0.0024	0.7193	1.0000	

Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer



Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer



Class Level Information		
Class	Levels	Values
Type1	18	Bug Dark Dragon Electric Fairy Fighting Fire Flying Ghost Grass Ground Ice Normal Poison Psychic Rock Steel Water

Number of Observations Read	807
Number of Observations Used	807

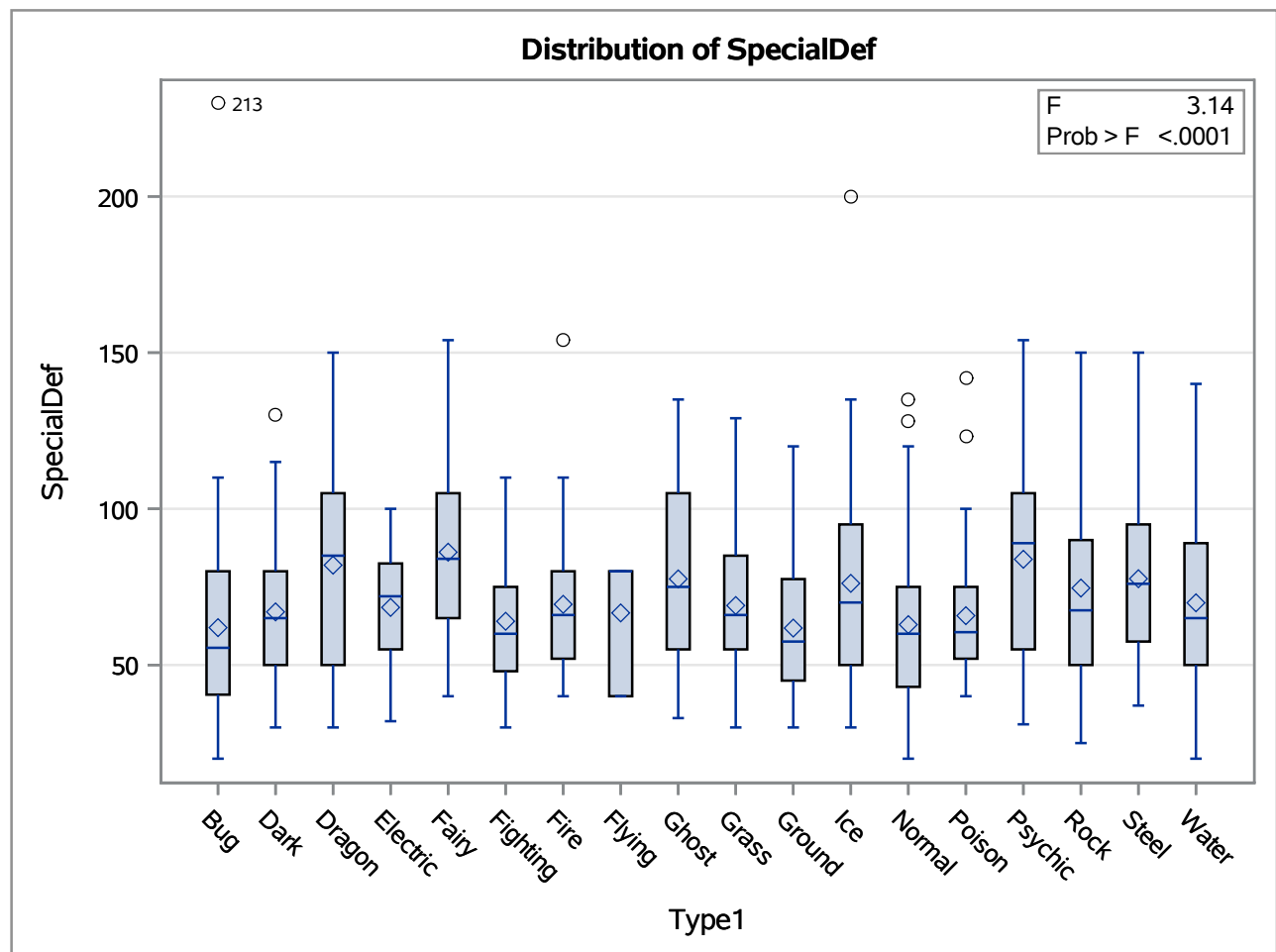
Dependent Variable: SpecialDef

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	17	37668.0174	2215.7657	3.14	<.0001
Error	789	556689.1673	705.5629		
Corrected Total	806	594357.1846			

R-Square	Coeff Var	Root MSE	SpecialDef Mean
0.063376	38.00621	26.56243	69.88971

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Type1	17	37668.01737	2215.76573	3.14	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Type1	17	37668.01737	2215.76573	3.14	<.0001



Levene's Test for Homogeneity of SpecialDef Variance ANOVA of Squared Deviations from Group Means					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Type1	17	43136428	2537437	1.24	0.2234
Error	789	1.6095E9	2039976		

Welch's ANOVA for SpecialDef			
Source	DF	F Value	Pr > F
Type1	17.0000	2.60	0.0014
Error	114.0		

Level of Type1	N	SpecialDef	
		Mean	Std Dev
Bug	72	61.9583333	31.2132319
Dark	29	67.0000000	23.8746728
Dragon	27	81.9629630	30.1821158
Electric	40	68.4250000	18.9193802
Fairy	18	86.1111111	29.4436429
Fighting	29	64.0000000	22.3431038
Fire	53	69.4150943	21.2751516
Flying	3	66.6666667	23.0940108
Ghost	27	77.5555556	28.1798255
Grass	78	69.0384615	21.6197615
Ground	32	61.8125000	20.8751087
Ice	23	76.1304348	38.0410118
Normal	105	62.9238095	24.6516871
Poison	34	65.7941176	23.0174893
Psychic	53	83.8490566	29.0426717
Rock	46	74.6304348	32.2775179
Steel	24	77.6250000	27.3349792
Water	114	69.9122807	28.2208614

Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Type1	SpecialDef LSMEAN	LSMEAN Number
Bug	61.9583333	1
Dark	67.0000000	2
Dragon	81.9629630	3
Electric	68.4250000	4
Fairy	86.1111111	5
Fighting	64.0000000	6
Fire	69.4150943	7
Flying	66.6666667	8
Ghost	77.5555556	9
Grass	69.0384615	10
Ground	61.8125000	11
Ice	76.1304348	12
Normal	62.9238095	13
Poison	65.7941176	14
Psychic	83.8490566	15
Rock	74.6304348	16
Steel	77.6250000	17
Water	69.9122807	18

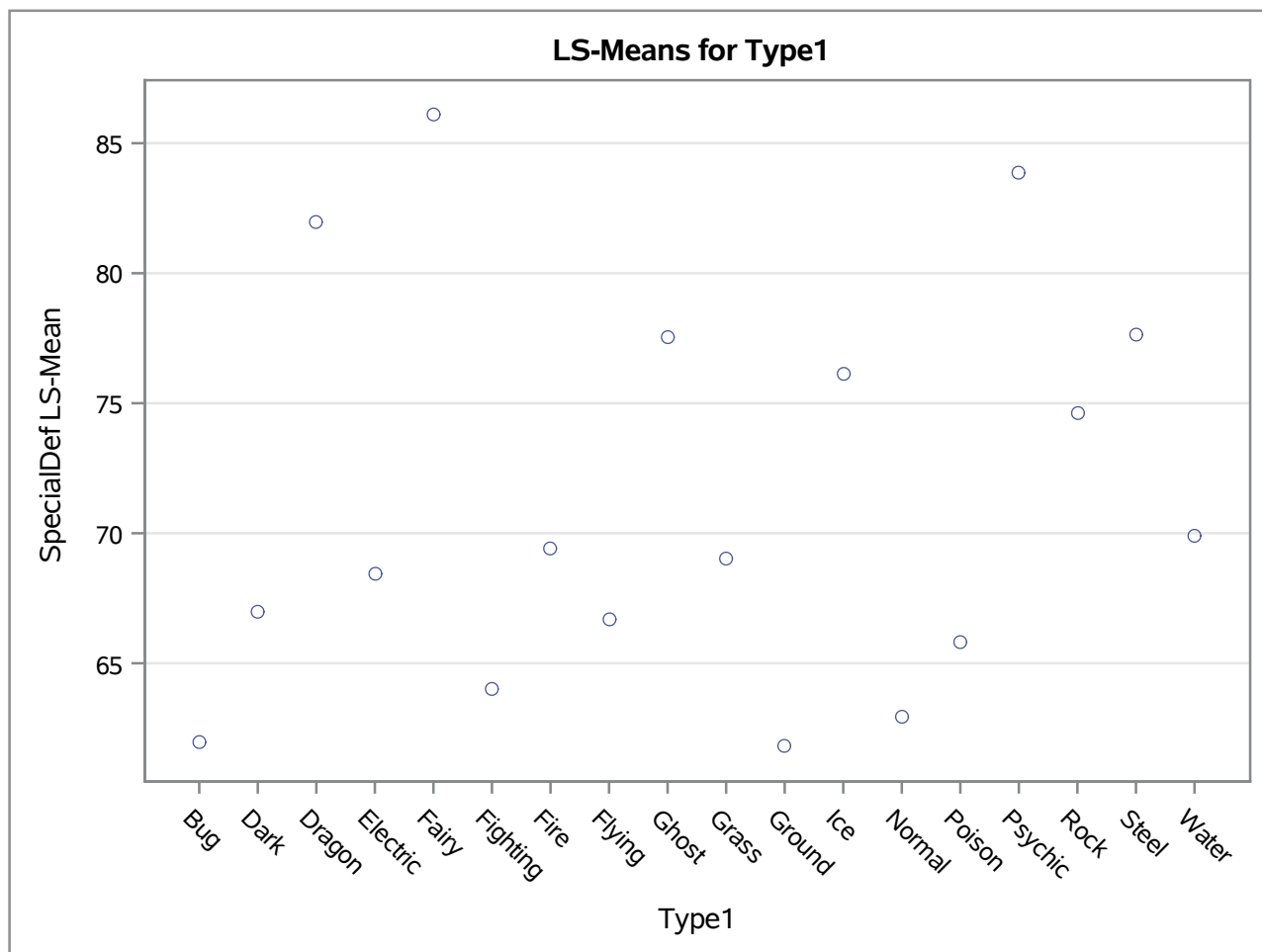
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Least Squares Means for effect Type1 Pr > t for H0: LSMean(i)=LSMean(j)												
Dependent Variable: SpecialDef												
i/j	1	2	3	4	5	6	7	8	9	10	11	12
1		1.0000	0.0824	0.9990	0.0585	1.0000	0.9865	1.0000	0.4533	0.9775	1.0000	0.7346
2	1.0000		0.8121	1.0000	0.6099	1.0000	1.0000	1.0000	0.9915	1.0000	1.0000	0.9991
3	0.0824	0.8121		0.8455	1.0000	0.5089	0.8698	1.0000	1.0000	0.7671	0.2532	1.0000
4	0.9990	1.0000	0.8455		0.6492	1.0000	1.0000	1.0000	0.9963	1.0000	0.9999	0.9998
5	0.0585	0.6099	1.0000	0.6492		0.3317	0.6803	0.9995	0.9999	0.5635	0.1563	0.9994
6	1.0000	1.0000	0.5089	1.0000	0.3317		1.0000	1.0000	0.9082	1.0000	1.0000	0.9768
7	0.9865	1.0000	0.8698	1.0000	0.6803	1.0000		1.0000	0.9982	1.0000	0.9985	0.9999
8	1.0000	1.0000	1.0000	1.0000	0.9995	1.0000	1.0000		1.0000	1.0000	1.0000	1.0000
9	0.4533	0.9915	1.0000	0.9963	0.9999	0.9082	0.9982	1.0000		0.9942	0.7063	1.0000
10	0.9775	1.0000	0.7671	1.0000	0.5635	1.0000	1.0000	1.0000	0.9942		0.9982	0.9997
11	1.0000	1.0000	0.2532	0.9999	0.1563	1.0000	0.9985	1.0000	0.7063	0.9982		0.8819
12	0.7346	0.9991	1.0000	0.9998	0.9994	0.9768	0.9999	1.0000	1.0000	0.9997	0.8819	
13	1.0000	1.0000	0.0862	0.9997	0.0639	1.0000	0.9935	1.0000	0.4905	0.9875	1.0000	0.7796
14	1.0000	1.0000	0.6375	1.0000	0.4369	1.0000	1.0000	1.0000	0.9630	1.0000	1.0000	0.9939
15	0.0008	0.3503	1.0000	0.3328	1.0000	0.1103	0.3167	0.9998	0.9999	0.1456	0.0252	0.9995
16	0.5099	0.9992	0.9997	0.9998	0.9862	0.9686	1.0000	1.0000	1.0000	0.9997	0.8179	1.0000
17	0.5292	0.9935	1.0000	0.9973	0.9999	0.9258	0.9988	1.0000	1.0000	0.9961	0.7503	1.0000
18	0.8739	1.0000	0.8042	1.0000	0.6047	0.9999	1.0000	1.0000	0.9973	1.0000	0.9888	0.9999

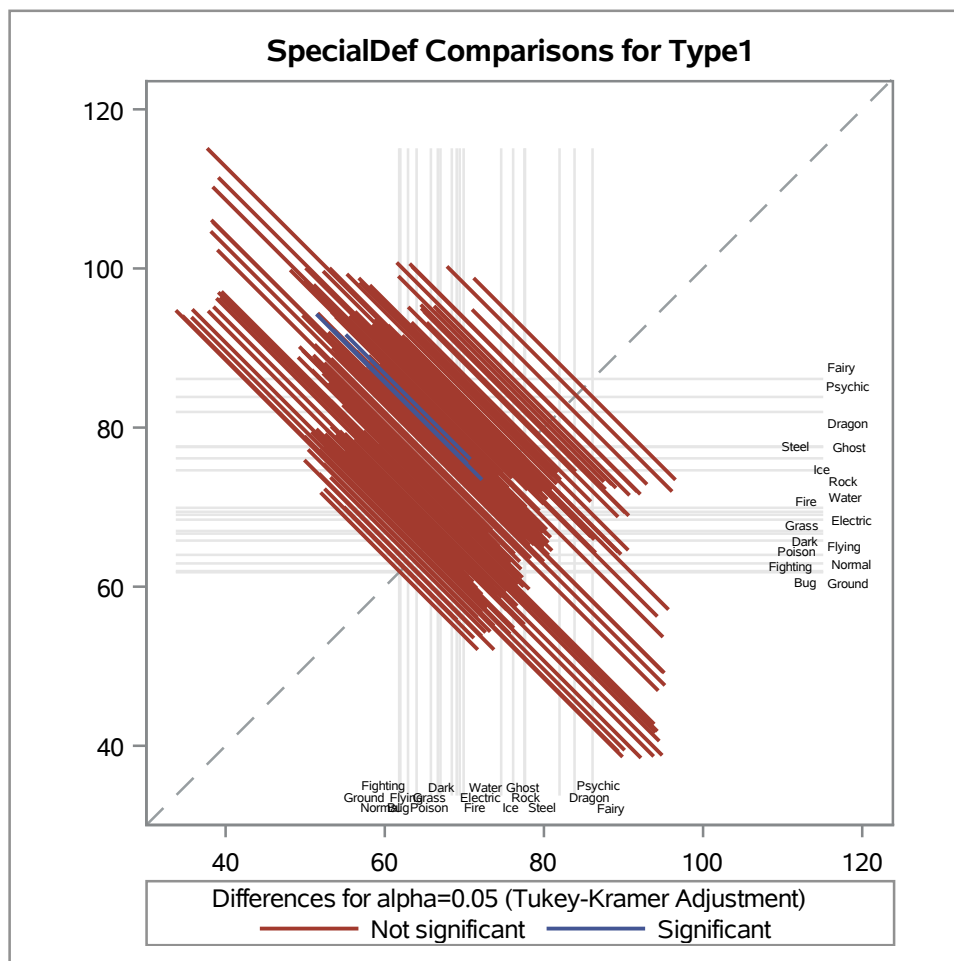
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Least Squares Means for effect Type1 Pr > t for H0: LSMean(i)=LSMean(j)						
Dependent Variable: SpecialDef						
i/j	13	14	15	16	17	18
1	1.0000	1.0000	0.0008	0.5099	0.5292	0.8739
2	1.0000	1.0000	0.3503	0.9992	0.9935	1.0000
3	0.0862	0.6375	1.0000	0.9997	1.0000	0.8042
4	0.9997	1.0000	0.3328	0.9998	0.9973	1.0000
5	0.0639	0.4369	1.0000	0.9862	0.9999	0.6047
6	1.0000	1.0000	0.1103	0.9686	0.9258	0.9999
7	0.9935	1.0000	0.3167	1.0000	0.9988	1.0000
8	1.0000	1.0000	0.9998	1.0000	1.0000	1.0000
9	0.4905	0.9630	0.9999	1.0000	1.0000	0.9973
10	0.9875	1.0000	0.1456	0.9997	0.9961	1.0000
11	1.0000	1.0000	0.0252	0.8179	0.7503	0.9888
12	0.7796	0.9939	0.9995	1.0000	1.0000	0.9999
13		1.0000	0.0005	0.5367	0.5726	0.8935
14	1.0000		0.1609	0.9924	0.9715	1.0000
15	0.0005	0.1609		0.9620	1.0000	0.1368
16	0.5367	0.9924	0.9620		1.0000	0.9999
17	0.5726	0.9715	1.0000	1.0000		0.9983
18	0.8935	1.0000	0.1368	0.9999	0.9983	

Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer



Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer



Class Level Information		
Class	Levels	Values
Type1	18	Bug Dark Dragon Electric Fairy Fighting Fire Flying Ghost Grass Ground Ice Normal Poison Psychic Rock Steel Water

Number of Observations Read	807
Number of Observations Used	807

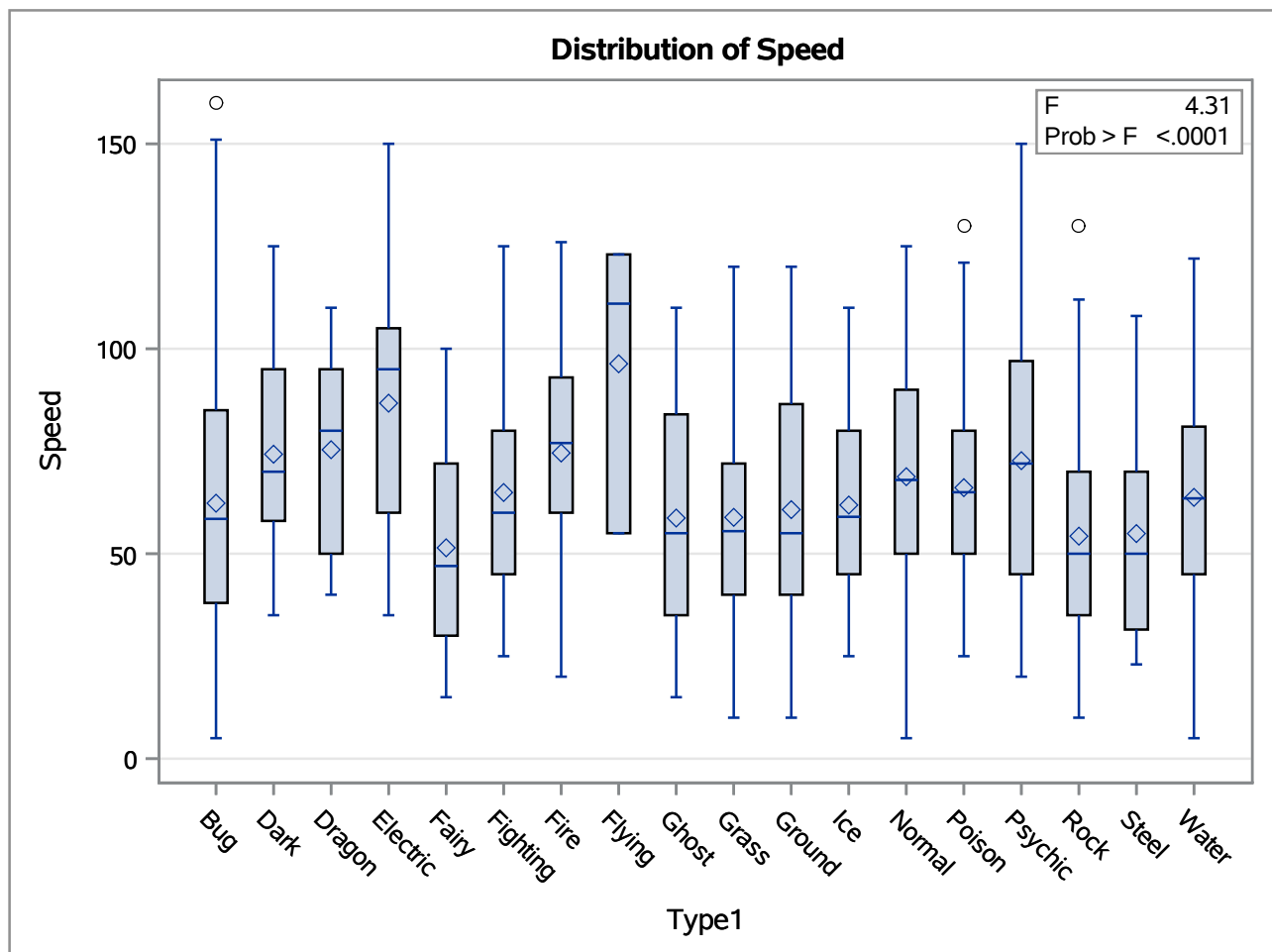
Dependent Variable: Speed

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	17	52706.4997	3100.3823	4.31	<.0001
Error	789	567941.5374	719.8245		
Corrected Total	806	620648.0372			

R-Square	Coeff Var	Root MSE	Speed Mean
0.084922	40.74032	26.82955	65.85502

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Type1	17	52706.49975	3100.38234	4.31	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Type1	17	52706.49975	3100.38234	4.31	<.0001



Levene's Test for Homogeneity of Speed Variance ANOVA of Squared Deviations from Group Means					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Type1	17	24021733	1413043	1.62	0.0546
Error	789	6.9033E8	874949		

Welch's ANOVA for Speed			
Source	DF	F Value	Pr > F
Type1	17.0000	3.83	<.0001
Error	113.8		

Level of Type1	N	Speed	
		Mean	Std Dev
Bug	72	62.3194444	33.4848405
Dark	29	74.2758621	25.3248841
Dragon	27	75.3703704	22.1136021
Electric	40	86.7250000	29.0357759
Fairy	18	51.4444444	25.6520203
Fighting	29	64.9310345	25.7459165
Fire	53	74.5660377	24.2403902
Flying	3	96.3333333	36.2950869
Ghost	27	58.7037037	28.4250902
Grass	78	58.8717949	25.7456888
Ground	32	60.7500000	27.1305090
Ice	23	61.8695652	23.7511805
Normal	105	68.7904762	26.2915222
Poison	34	66.1176471	25.3410252
Psychic	53	72.6981132	31.6188751
Rock	46	54.2826087	27.6989074
Steel	24	54.9166667	24.4787693
Water	114	63.7456140	23.2713168

Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Type1	Speed LSMEAN	LSMEAN Number
Bug	62.3194444	1
Dark	74.2758621	2
Dragon	75.3703704	3
Electric	86.7250000	4
Fairy	51.4444444	5
Fighting	64.9310345	6
Fire	74.5660377	7
Flying	96.3333333	8
Ghost	58.7037037	9
Grass	58.8717949	10
Ground	60.7500000	11
Ice	61.8695652	12
Normal	68.7904762	13
Poison	66.1176471	14
Psychic	72.6981132	15
Rock	54.2826087	16
Steel	54.9166667	17
Water	63.7456140	18

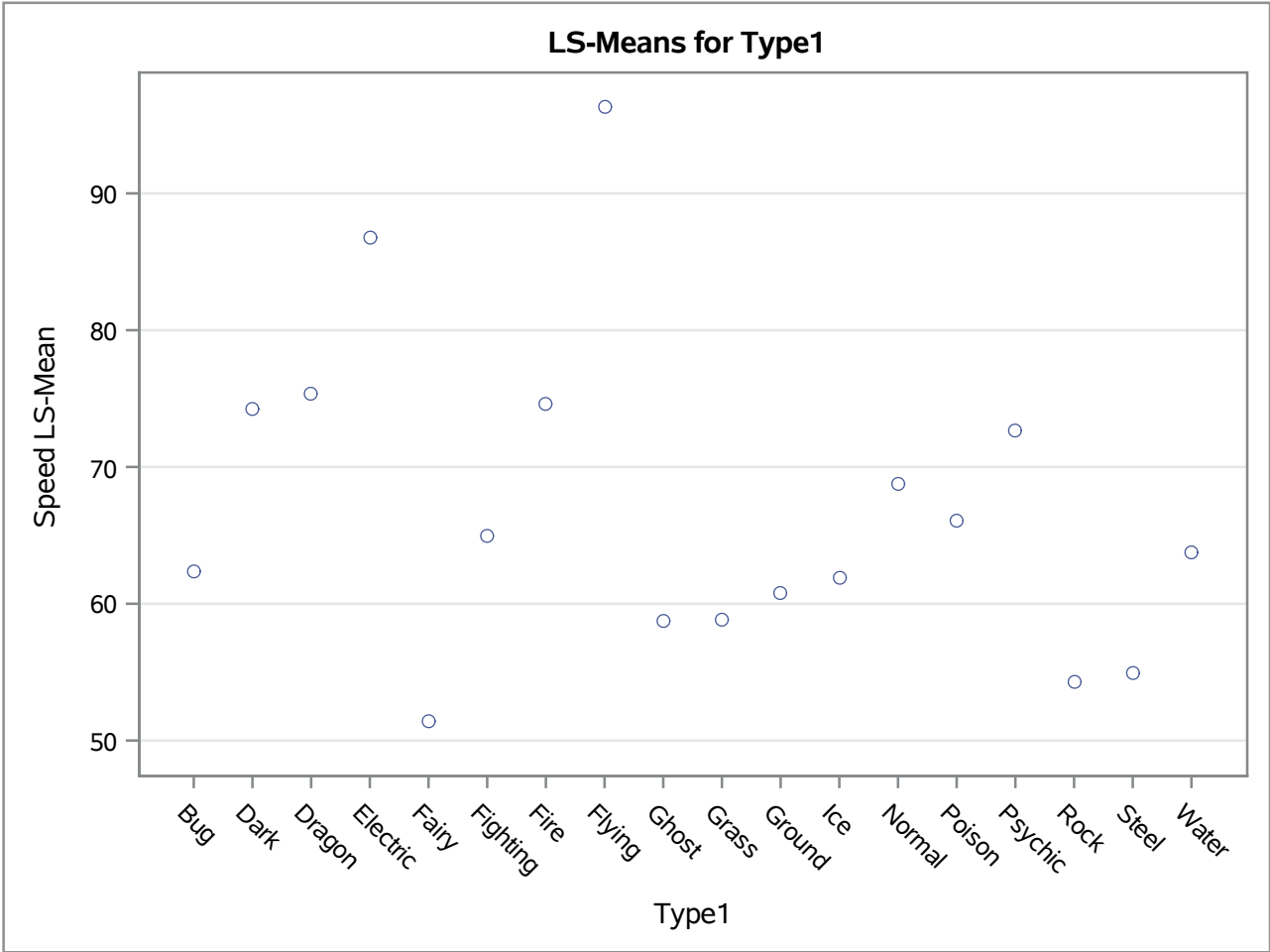
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Least Squares Means for effect Type1 Pr > t for H0: LSMean(i)=LSMean(j)												
Dependent Variable: Speed												
i/j	1	2	3	4	5	6	7	8	9	10	11	12
1		0.8559	0.7821	0.0006	0.9876	1.0000	0.5140	0.7847	1.0000	1.0000	1.0000	1.0000
2	0.8559		1.0000	0.9104	0.2925	0.9977	1.0000	0.9970	0.7727	0.4253	0.8843	0.9738
3	0.7821	1.0000		0.9665	0.2380	0.9932	1.0000	0.9984	0.6960	0.3450	0.8242	0.9505
4	0.0006	0.9104	0.9665		0.0006	0.0840	0.7769	1.0000	0.0040	<.0001	0.0062	0.0440
5	0.9876	0.2925	0.2380	0.0006		0.9707	0.1357	0.3941	1.0000	0.9999	0.9995	0.9990
6	1.0000	0.9977	0.9932	0.0840	0.9707		0.9861	0.8997	1.0000	0.9999	1.0000	1.0000
7	0.5140	1.0000	1.0000	0.7769	0.1357	0.9861		0.9967	0.5306	0.0956	0.6830	0.9131
8	0.7847	0.9970	0.9984	1.0000	0.3941	0.8997	0.9967		0.6798	0.6286	0.7556	0.8201
9	1.0000	0.7727	0.6960	0.0040	1.0000	1.0000	0.5306	0.6798		1.0000	1.0000	1.0000
10	1.0000	0.4253	0.3450	<.0001	0.9999	0.9999	0.0956	0.6286	1.0000		1.0000	1.0000
11	1.0000	0.8843	0.8242	0.0062	0.9995	1.0000	0.6830	0.7556	1.0000	1.0000		1.0000
12	1.0000	0.9738	0.9505	0.0440	0.9990	1.0000	0.9131	0.8201	1.0000	1.0000	1.0000	
13	0.9840	1.0000	0.9997	0.0364	0.5046	1.0000	0.9985	0.9553	0.9578	0.5517	0.9916	0.9997
14	1.0000	0.9993	0.9974	0.0938	0.9199	1.0000	0.9943	0.9221	0.9998	0.9979	1.0000	1.0000
15	0.7935	1.0000	1.0000	0.5340	0.2528	0.9988	1.0000	0.9916	0.7493	0.2577	0.8739	0.9794
16	0.9829	0.1416	0.1083	<.0001	1.0000	0.9710	0.0215	0.4323	1.0000	1.0000	0.9999	0.9998
17	0.9995	0.4437	0.3699	0.0007	1.0000	0.9971	0.2141	0.5150	1.0000	1.0000	1.0000	1.0000
18	1.0000	0.9161	0.8568	0.0005	0.9414	1.0000	0.5883	0.8291	1.0000	0.9990	1.0000	1.0000

Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Least Squares Means for effect Type1 Pr > t for H0: LSMean(i)=LSMean(j)						
Dependent Variable: Speed						
i/j	13	14	15	16	17	18
1	0.9840	1.0000	0.7935	0.9829	0.9995	1.0000
2	1.0000	0.9993	1.0000	0.1416	0.4437	0.9161
3	0.9997	0.9974	1.0000	0.1083	0.3699	0.8568
4	0.0364	0.0938	0.5340	<.0001	0.0007	0.0005
5	0.5046	0.9199	0.2528	1.0000	1.0000	0.9414
6	1.0000	1.0000	0.9988	0.9710	0.9971	1.0000
7	0.9985	0.9943	1.0000	0.0215	0.2141	0.5883
8	0.9553	0.9221	0.9916	0.4323	0.5150	0.8291
9	0.9578	0.9998	0.7493	1.0000	1.0000	1.0000
10	0.5517	0.9979	0.2577	1.0000	1.0000	0.9990
11	0.9916	1.0000	0.8739	0.9999	1.0000	1.0000
12	0.9997	1.0000	0.9794	0.9998	1.0000	1.0000
13		1.0000	1.0000	0.1758	0.6937	0.9960
14	1.0000		0.9997	0.8912	0.9851	1.0000
15	1.0000	0.9997		0.0671	0.3865	0.8654
16	0.1758	0.8912	0.0671		1.0000	0.8594
17	0.6937	0.9851	0.3865	1.0000		0.9927
18	0.9960	1.0000	0.8654	0.8594	0.9927	

Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer



Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

