

APPENDIX C

ANOVA RESULTS (DRIVER SECOND FACTOR)

This appendix contains the results obtained from the analysis of variance described in chapter three using “driver” as the second factor.

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The SAS System          09:20 Friday, March 13, 1998 649
                        General Linear Models Procedure
                        Class Level Information

Class   Levels   values
ICCENBL    2      0 1
DRIVER     37     3 5 6 9 10 12 14 17 19 20 21 23 30 33 39 41 43 47 53 59 60 74 76 78 79 80
                        84 87 88 89 91 100 103 105 110 111 117
                        Number of observations in data set = 74

Dependent Variable: MDIST
Source          DF          Sum of Squares          Mean Square   F Value   Pr > F
Model          37          55874.84552570          1510.13096015   106.02   0.0001
Error          36          512.77077176           14.24363255
Corrected Total 73          56387.61629746

R-Square          C.V.          Root MSE          MDIST Mean
0.990906          10.59370          3.77407373          35.62563546

Source          DF          Type III SS          Mean Square   F Value   Pr > F
ICCENBL         1           5.67595441           5.67595441     0.40    0.5319
DRIVER          36          55869.16957129          1551.92137698   108.96   0.0001

Dependent Variable: MRDIST
Source          DF          Sum of Squares          Mean Square   F Value   Pr > F
Model          37          295109.52467253          7975.93309926   172.42   0.0001
Error          36          1665.28163435          46.25782318
Corrected Total 73          296774.80630688

R-Square          C.V.          Root MSE          MRDIST Mean
0.994389          4.589008          6.80131040          148.20873820

Source          DF          Type III SS          Mean Square   F Value   Pr > F
ICCENBL         1          19.57816371           19.57816371     0.42    0.5195
DRIVER          36          295089.94650882          8196.94295858   177.20   0.0001

Dependent Variable: MENGAGE
Source          DF          Sum of Squares          Mean Square   F Value   Pr > F
Model          37          2.33601804             0.06313562     6.44    0.0001
Error          36          0.35315866             0.00980996
Corrected Total 73          2.68917671

R-Square          C.V.          Root MSE          MENGAGE Mean
0.868674          22.20816          0.09904526          0.44598595

Source          DF          Type III SS          Mean Square   F Value   Pr > F
ICCENBL         1          0.22782839             0.22782839     23.22   0.0001
DRIVER          36          2.10818965             0.05856082     5.97    0.0001

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Dependent Variable: MICCONP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	2940852.21561992	79482.49231405	0.96	0.5539
Error	36	2992023.46559214	83111.76293312		
Corrected Total	73	5932875.68121207			
	R-Square	C.V.	Root MSE	MICCONP Mean	
	0.495687	434.2640	288.29110797	66.38614410	
Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	39262.15781378	39262.15781378	0.47	0.4963
DRIVER	36	2901590.05780615	80599.72382795	0.97	0.5364

Dependent Variable: MRICCONP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	331104.84702289	8948.77964927	9.83	0.0001
Error	36	32758.24024468	909.95111791		
Corrected Total	73	363863.08726758			
	R-Square	C.V.	Root MSE	MRICCONP Mean	
	0.909971	23.06994	30.16539603	130.75629826	
Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	4815.80961873	4815.80961873	5.29	0.0273
DRIVER	36	326289.03740416	9063.58437234	9.96	0.0001

Dependent Variable: MSETP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	2735883.35386936	73942.79334782	0.99	0.5184
Error	36	2701894.70198243	75052.63061062		
Corrected Total	73	5437778.05585178			
	R-Square	C.V.	Root MSE	MSETP Mean	
	0.503125	431.1192	273.95735181	63.54561327	
Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	72596.73445823	72596.73445823	0.97	0.3319
DRIVER	36	2663286.61941112	73980.18387253	0.99	0.5171

Dependent Variable: MRSETP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	281750.10494532	7614.86770122	5.95	0.0001
Error	36	46040.97390044	1278.91594168		
Corrected Total	73	327791.07884576			
	R-Square	C.V.	Root MSE	MRSETP Mean	
	0.859542	26.31848	35.76193426	135.88145378	
Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	1475.24273318	1475.24273318	1.15	0.2900
DRIVER	36	280274.86221214	7785.41283923	6.09	0.0001

Dependent Variable: MCOASTP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	2786535.49710469	75311.77019202	1.01	0.4835
Error	36	2672671.49404002	74240.87483444		
Corrected Total	73	5459206.99114471			
	R-Square	C.V.	Root MSE	MCOASTP Mean	
	0.510429	352.0078	272.47178723	77.40503170	
Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	119944.37715591	119944.37715591	1.62	0.2119

DRIVER	36	2666591.11994878	74071.97555413	1.00	0.5027
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Dependent Variable: MRCOASTP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	313956.39882588	8485.30807638	5.23	0.0001
Error	36	58444.67436725	1623.46317687		
Corrected Total	73	372401.07319313			
	R-Square	C.V.	Root MSE	MRCOASTP Mean	
	0.843060	30.31204	40.29222229	132.92482840	
Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	20393.95642684	20393.95642684	12.56	0.0011
DRIVER	36	293562.44239905	8154.51228886	5.02	0.0001

Dependent Variable: MRESUMP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	54980.28748230	1485.95371574	1.55	0.0944
Error	36	34429.28558863	956.36904413		
Corrected Total	73	89409.57307093			
	R-Square	C.V.	Root MSE	MRESUMP Mean	
	0.614926	161.7371	30.92521696	19.12067075	
Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	287.69417149	287.69417149	0.30	0.5868
DRIVER	36	54692.59331081	1519.23870308	1.59	0.0849

Dependent Variable: MRRESUMP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	230377.85047331	6226.42839117	2.93	0.0008
Error	36	76490.11410224	2124.72539173		
Corrected Total	73	306867.96457555			
	R-Square	C.V.	Root MSE	MRRESUMP Mean	
	0.750739	34.82231	46.09474365	132.37129451	
Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	232.01641182	232.01641182	0.11	0.7430
DRIVER	36	230145.83406148	6392.93983504	3.01	0.0007

Dependent Variable: MACCELP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	191652.88603576	5179.80773070	4.76	0.0001
Error	36	39174.09354225	1088.16926506		
Corrected Total	73	230826.97957801			
	R-Square	C.V.	Root MSE	MACCELP Mean	
	0.830288	71.66072	32.98741071	46.03276452	
Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	895.20458811	895.20458811	0.82	0.3704
DRIVER	36	190757.68144765	5298.82448466	4.87	0.0001

Dependent Variable: MRACCELP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	240799.70772710	6508.10020884	4.05	0.0001
Error	36	57832.21453971	1606.45040388		
Corrected Total	73	298631.92226681			
	R-Square	C.V.	Root MSE	MRACCELP Mean	
	0.806343	31.15464	40.08054895	128.65035393	

Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	1011.54532849	1011.54532849	0.63	0.4327
DRIVER	36	239788.16239861	6660.78228885	4.15	0.0001

Dependent Variable: MCANCLP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	49256.59921364	1331.25943821	3.01	0.0006
Error	36	15915.75310485	442.10425291		
Corrected Total	73	65172.35231849			

	R-Square	C.V.	Root MSE	MCANCLP Mean
	0.755790	245.9506	21.02627530	8.54898421

Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	99.46825233	99.46825233	0.22	0.6381
DRIVER	36	49157.13096130	1365.47586004	3.09	0.0005

Dependent Variable: MRCANCLP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	139383.11746277	3767.11128278	2.67	0.0020
Error	36	50857.71387123	1412.71427420		
Corrected Total	73	190240.83133400			

	R-Square	C.V.	Root MSE	MRCANCLP Mean
	0.732667	27.12011	37.58609150	138.59120817

Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	97.25126287	97.25126287	0.07	0.7945
DRIVER	36	139285.86619990	3869.05183889	2.74	0.0016

Dependent Variable: MBRAKEP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	288639.84357776	7801.07685345	8.83	0.0001
Error	36	31805.75383004	883.49316195		
Corrected Total	73	320445.59740780			

	R-Square	C.V.	Root MSE	MBRAKEP Mean
	0.900745	23.95704	29.72361287	124.07047933

Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	593.17660195	593.17660195	0.67	0.4180
DRIVER	36	288046.66697581	8001.29630488	9.06	0.0001

Dependent Variable: MCCBIP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	8776.85749320	237.21236468	1.97	0.0219
Error	36	4327.45612422	120.20711456		
Corrected Total	73	13104.31361742			

	R-Square	C.V.	Root MSE	MCCBIP Mean
	0.669769	102.7839	10.96390052	10.66694357

Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	8.14619977	8.14619977	0.07	0.7961
DRIVER	36	8768.71129343	243.57531371	2.03	0.0186

Dependent Variable: MCCNEP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	71717.00707285	1938.29748846	0.95	0.5584
Error	36	73244.10009023	2034.55833584		
Corrected Total	73	144961.10716309			

	R-Square	C.V.	Root MSE	MCCNEP Mean	
	0.494733	427.8991	45.10607870	10.54128828	
Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	1539.41028188	1539.41028188	0.76	0.3901
DRIVER	36	70177.59679098	1949.37768864	0.96	0.5507

Dependent Variable: MRCNEP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	150928.44041169	4079.14703815	2.63	0.0023
Error	36	55862.61432755	1551.73928688		
Corrected Total	73	206791.05473924			

	R-Square	C.V.	Root MSE	MRCNEP Mean	
	0.729860	30.04443	39.39212214	131.11291559	
Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	212.43290461	212.43290461	0.14	0.7136
DRIVER	36	150716.00750708	4186.55576409	2.70	0.0019

Dependent Variable: MRCANCLP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	139383.11746277	3767.11128278	2.67	0.0020
Error	36	50857.71387123	1412.71427420		
Corrected Total	73	190240.83133400			

	R-Square	C.V.	Root MSE	MRCANCLP Mean	
	0.732667	27.12011	37.58609150	138.59120817	
Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	97.25126287	97.25126287	0.07	0.7945
DRIVER	36	139285.86619990	3869.05183889	2.74	0.0016

Dependent Variable: MBRAKEP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	288639.84357776	7801.07685345	8.83	0.0001
Error	36	31805.75383004	883.49316195		
Corrected Total	73	320445.59740780			

	R-Square	C.V.	Root MSE	MBRAKEP Mean	
	0.900745	23.95704	29.72361287	124.07047933	
Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	593.17660195	593.17660195	0.67	0.4180
DRIVER	36	288046.66697581	8001.29630488	9.06	0.0001

Dependent Variable: MCCBIP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	8776.85749320	237.21236468	1.97	0.0219
Error	36	4327.45612422	120.20711456		
Corrected Total	73	13104.31361742			

	R-Square	C.V.	Root MSE	MCCBIP Mean	
	0.669769	102.7839	10.96390052	10.66694357	
Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	8.14619977	8.14619977	0.07	0.7961
DRIVER	36	8768.71129343	243.57531371	2.03	0.0186

Dependent Variable: MCCNEP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	71717.00707285	1938.29748846	0.95	0.5584
Error	36	73244.10009023	2034.55833584		

Corrected Total	73	144961.10716309			
	R-Square	C.V.	Root MSE	MCCNEP Mean	
	0.494733	427.8991	45.10607870	10.54128828	
Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	1539.41028188	1539.41028188	0.76	0.3901
DRIVER	36	70177.59679098	1949.37768864	0.96	0.5507

Dependent Variable: MRCCNEP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	150928.44041169	4079.14703815	2.63	0.0023
Error	36	55862.61432755	1551.73928688		
Corrected Total	73	206791.05473924			
	R-Square	C.V.	Root MSE	MRCCNEP Mean	
	0.729860	30.04443	39.39212214	131.11291559	
Source	DF	Type III SS	Mean Square	F Value	Pr > F
ICCENBL	1	212.43290461	212.43290461	0.14	0.7136
DRIVER	36	150716.00750708	4186.55576409	2.70	0.0019

----- ICCENBL=0 -----					
Variable	N	Mean	Std Dev	Minimum	Maximum
DRIVER	37	55.0270270	36.5174893	3.0000000	117.0000000
TYPE	37	0	0	0	0
FREQ	37	2.7837838	2.3586146	1.0000000	12.0000000
MDIST	37	35.9025869	28.4235333	9.2416667	147.8500000
MRDIST	37	148.7231017	63.4361176	27.7083333	258.0000000
MENGAGE	37	0.3904994	0.1830747	0.0020000	0.8750000
MICCONP	37	89.4202427	383.4394897	0.7730191	2347.42
MRICCONP	37	138.8234234	78.0185726	4.0000000	266.0000000
MSETP	37	94.8671227	382.8475502	0.7730191	2347.42
MRSETP	37	140.3463964	69.9745009	7.5000000	266.0000000
MCOASTP	37	117.6650610	381.6084446	0	2347.42
MRCOASTP	37	149.5258526	74.2295963	8.5000000	266.0000000
MRESUMP	37	21.0924109	38.4017878	0	218.3406114
MRRESUMP	37	134.1419884	68.1797182	56.0000000	264.0000000
MACCELP	37	42.5546387	48.3370343	0	218.3406114
MRACCELP	37	124.9531210	66.0603402	25.0000000	258.0000000
MCANCLP	37	7.3896027	17.8045441	0	75.6143667
MRCANCLP	37	137.4448198	53.5106951	104.5000000	264.0000000
MBRAKEP	37	126.9017158	68.6067590	23.3385301	271.7704986
MCCBIP	37	10.9987323	16.4789303	0	71.3976942
MCCNEP	37	5.9802751	9.6926771	0	37.8071834
MRCCNEP	37	129.4185972	56.7922198	80.0000000	258.0000000

----- ICCENBL=1 -----					
Variable	N	Mean	Std Dev	Minimum	Maximum
DRIVER	37	55.0270270	36.5174893	3.0000000	117.0000000
TYPE	37	0	0	0	0
FREQ	37	4.4054054	4.0308495	1.0000000	20.0000000
MDIST	37	35.3486840	27.5366622	8.2400000	148.3600000
MRDIST	37	147.6943747	64.9542898	13.7250000	261.0000000
MENGAGE	37	0.5014725	0.1866934	0.0080000	0.8250000
MICCONP	37	43.3520455	129.1729247	1.4123655	706.2146893
MRICCONP	37	122.6891731	62.3429051	12.7000000	264.0000000
MSETP	37	32.2241039	49.6041104	1.9199065	235.4048964
MRSETP	37	131.4165112	64.5592597	17.4000000	261.0000000
MCOASTP	37	37.1450024	51.8444345	0	235.4048964
MRCOASTP	37	116.3238042	65.3294918	8.5000000	260.0000000
MRESUMP	37	17.1489306	31.6371687	0	174.8541626
MRRESUMP	37	130.6006006	62.2028235	56.0000000	262.5000000
MACCELP	37	49.5108903	63.6437339	0	341.8598402
MRACCELP	37	132.3475869	62.4761086	25.0000000	259.6666667
MCANCLP	37	9.7083658	38.6080085	0	235.4048964
MRCANCLP	37	139.7375965	49.1769420	104.5000000	266.0000000
MBRAKEP	37	121.2392428	64.6366931	27.4205840	292.2374429
MCCBIP	37	10.3351548	9.6035037	0	36.8863138
MCCNEP	37	15.1023015	62.3697686	0	381.6793893
MRCCNEP	37	132.8072340	50.1292212	80.0000000	251.0000000