

OIL MILES	JERRY	SCOTT	ODOMETER	CAR	Car Name	Pont	Pont2	
Z	0	1	0	25994.25	Pontiac G6	Pontiac G6	1	0
A	6500	0	1	32867	Pontiac G6	Pontiac G6	1	0
Z	0	0.75	0.25	33088	Pontiac G6	Pontiac G6	1	0
C	6500	0	1	39962	Pontiac G6	Pontiac G6	1	0
Z	0	0	1	40172.75	Pontiac G6	Pontiac G6	1	0
D	6500	1	0	47048	Pontiac G6	Pontiac G6	1	0
Z	0	1	0	47259.75	Pontiac G6	Pontiac G6	1	0
B	6500	0.75	0.25	54137.75	Pontiac G6	Pontiac G6	1	0
Z	0	1	0	54313.75	Pontiac G6	Pontiac G6	1	0
G	6500	0	1	61189	Pontiac G6	Pontiac G6	1	0
Z	0	1	0	61429	Pontiac G6	Pontiac G6	1	0
I	6500	1	0	68301	Pontiac G6	Pontiac G6	1	0
Z	0	1	0	68481	Pontiac G6	Pontiac G6	1	0
Z	0	1	0	68642	Pontiac G6	Pontiac G6	1	0
E	6500	1	0	78016.75	Pontiac G6	Pontiac G6	1	0
Z	0	1	0	78121	Pontiac G6	Pontiac G6	1	0
Z	0	0	1	13036.5	Pontiac G6 (2)	Pontiac G6	0	1
G	6500	0	1	19951.75	Pontiac G6 (2)	Pontiac G6	0	1
Z	0	0	1	20149	Pontiac G6 (2)	Pontiac G6	0	1
I	6500	1	0	27043	Pontiac G6 (2)	Pontiac G6	0	1
Z	0	1	0	27203.5	Pontiac G6 (2)	Pontiac G6	0	1
H	6500	1	0	34030.75	Pontiac G6 (2)	Pontiac G6	0	1
Z	0	0.75	0.25	34228	Pontiac G6 (2)	Pontiac G6	0	1
J	6500	1	0	41105.75	Pontiac G6 (2)	Pontiac G6	0	1
Z	0	1	0	41281	Pontiac G6 (2)	Pontiac G6	0	1
K	6500	1	0	48152.25	Pontiac G6 (2)	Pontiac G6	0	1
Z	0	1	0	48314.75	Pontiac G6 (2)	Pontiac G6	0	1
E	6500	1	0	55190	Pontiac G6 (2)	Pontiac G6	0	1
Z	0	1	0	55379	Pontiac G6 (2)	Pontiac G6	0	1
Z	0	0.75	0.25	11547	Buick LaCrosse	Buick LaCrosse	0	0
A	6500	1	0	18503	Buick LaCrosse	Buick LaCrosse	0	0
Z	0	1	0	18725.5	Buick LaCrosse	Buick LaCrosse	0	0
C	6500	1	0	25604.25	Buick LaCrosse	Buick LaCrosse	0	0
Z	0	1	0	25813.25	Buick LaCrosse	Buick LaCrosse	0	0
D	6500	1	0	32691.25	Buick LaCrosse	Buick LaCrosse	0	0
Z	0	1	0	32849.5	Buick LaCrosse	Buick LaCrosse	0	0
B	6500	0.25	0.75	39743.75	Buick LaCrosse	Buick LaCrosse	0	0
Z	0	1	0	39948.75	Buick LaCrosse	Buick LaCrosse	0	0
J	6500	1	0	46810	Buick LaCrosse	Buick LaCrosse	0	0
Z	0	1	0	46966.75	Buick LaCrosse	Buick LaCrosse	0	0
E	6500	1	0	53848	Buick LaCrosse	Buick LaCrosse	0	0
Z	0	1	0	7871.25	Buick LaCrosse (2)	Buick LaCrosse	0	0
G	6500	1	0	14732	Buick LaCrosse (2)	Buick LaCrosse	0	0
Z	0	0	1	14943	Buick LaCrosse (2)	Buick LaCrosse	0	0
I	6500	1	0	21817.25	Buick LaCrosse (2)	Buick LaCrosse	0	0
Z	0	1	0	22027.5	Buick LaCrosse (2)	Buick LaCrosse	0	0
H	6500	0.75	0.25	28895.33333	Buick LaCrosse (2)	Buick LaCrosse	0	0
Z	0	1	0	29060.75	Buick LaCrosse (2)	Buick LaCrosse	0	0
J	6500	0.25	0.75	35922.25	Buick LaCrosse (2)	Buick LaCrosse	0	0
Z	0	1	0	36128.75	Buick LaCrosse (2)	Buick LaCrosse	0	0
K	6500	1	0	42990.25	Buick LaCrosse (2)	Buick LaCrosse	0	0

E	6500	1	0	49832 Buick LaCrosse (2)	Buick LaCrosse	0	0
Z	0	1	0	50063 Buick LaCrosse (2)	Buick LaCrosse	0	0
Z	0	1	0	10849.25 Chevy SSR	Chevy SSR	0	0
A	6500	0	1	17608 Chevy SSR	Chevy SSR	0	0
Z	0	1	0	17804 Chevy SSR	Chevy SSR	0	0
C	6500	0.75	0.25	24684.5 Chevy SSR	Chevy SSR	0	0
Z	0	0.75	0.25	24906.5 Chevy SSR	Chevy SSR	0	0
D	6500	0.75	0.25	31765 Chevy SSR	Chevy SSR	0	0
Z	0	0	1	31967 Chevy SSR	Chevy SSR	0	0
B	6500	0	1	38915 Chevy SSR	Chevy SSR	0	0
Z	0	0	1	39121 Chevy SSR	Chevy SSR	0	0
G	6500	1	0	46055 Chevy SSR	Chevy SSR	0	0
Z	0	1	0	46281 Chevy SSR	Chevy SSR	0	0
I	6500	0.5	0.5	53179.75 Chevy SSR	Chevy SSR	0	0
Z	0	1	0	53392.75 Chevy SSR	Chevy SSR	0	0
J	6500	1	0	60288 Chevy SSR	Chevy SSR	0	0
Z	0	1	0	60459 Chevy SSR	Chevy SSR	0	0
E	6500	1	0	67329 Chevy SSR	Chevy SSR	0	0
Z	0	1	0	67559 Chevy SSR	Chevy SSR	0	0
Z	0	1	0	11567 Saab Aero	Saab Aero	0	0
C	6500	0.5	0.5	18428.5 Saab Aero	Saab Aero	0	0
Z	0	1	0	18645 Saab Aero	Saab Aero	0	0
D	6500	0.75	0.25	25553 Saab Aero	Saab Aero	0	0
Z	0	1	0	25842.75 Saab Aero	Saab Aero	0	0
B	6500	1	0	32738 Saab Aero	Saab Aero	0	0
Z	0	1	0	32948 Saab Aero	Saab Aero	0	0

General Linear Model: FTP Mean versus Car Name, OIL, Vehicle

Factor	Type	Levels	Values
Car Name	fixed	4	Buick LaCrosse, Chevy SSR, Pontiac G6, Saab Aero
Vehicle(Car Name)	fixed	6	1, 2, 1, 1, 2, 1
OIL	fixed	11	A, B, C, D, E, G, H, I, J, K, Z

General Linear Model

Factor	Type	Levels	Values
Car Name	fixed	4	Buick LaCrosse, Chevy SSR, Pontiac G6, Saab Aero
Vehicle(Car Name)	fixed	6	1, 2, 1, 1, 2, 1
OIL	fixed	11	A, B, C, D, E, G, H, I, J, K, Z

Analysis of Variance for FTP Mean, using Adjusted SS for Tests

Source	DF	Seq SS	Adj SS	Adj MS	F	P
LNLNOD	1	6.365	0.357	0.357	15.22	0.000
SCOTT	1	2.991	0.234	0.234	9.96	0.003
Step1	1	16.433	0.514	0.514	21.90	0.000
pScott	1	25.609	0.436	0.436	18.60	0.000
p2Scott	1	42.138	0.093	0.093	3.95	0.053
bScott	1	3.525	0.276	0.276	11.74	0.001
b2Scott	1	14.011	0.533	0.533	22.72	0.000
sScott	1	17.496	0.068	0.068	2.92	0.094
tpOd	1	20.878	0.001	0.001	0.02	0.880
tp2Od	1	82.775	0.027	0.027	1.17	0.285
tbOd	1	13.906	0.000	0.000	0.00	0.998
tb2Od	1	33.988	0.029	0.029	1.24	0.271

Analysis of Variance for FTP Mean, using Adjusted SS for Tests

Source	DF	Seq SS	Adj SS	Adj MS	F	P
LNLNOD	1	6.365	0.357	0.357	15.22	0.000
SCOTT	1	2.991	0.234	0.234	9.96	0.003
Step1	1	16.433	0.514	0.514	21.90	0.000
pScott	1	25.609	0.436	0.436	18.60	0.000
p2Scott	1	42.138	0.093	0.093	3.95	0.053
bScott	1	3.525	0.276	0.276	11.74	0.001
b2Scott	1	14.011	0.533	0.533	22.72	0.000
sScott	1	17.496	0.068	0.068	2.92	0.094
tpOd	1	20.878	0.001	0.001	0.02	0.880
tp2Od	1	82.775	0.027	0.027	1.17	0.285
tbOd	1	13.906	0.000	0.000	0.00	0.998
tb2Od	1	33.988	0.029	0.029	1.24	0.271

tsOd	1	86.842	0.054	0.054	2.31	0.135
Car Name	3	0.089	0.173	0.058	2.46	0.074
Vehicle(Car Name)	2	0.015	0.028	0.014	0.59	0.559
OIL	10	3.596	3.596	0.360	15.32	0.000
Error	48	1.126	1.126	0.023		
Total	76	371.785				

tsOd	1	629
Car Name	3	
Vehicle(Car Name)	2	
OIL	10	5.7
Error	48	3.6
Total	76	172

S = 0.153193 R-Sq = 99.70% R-Sq(adj) = 99.52%

S = 0.276232 R-Sq =

Term	Coef	SE Coef	T	P
Constant	13.498	1.497	9.01	0.000
LNLNOD	3.1231	0.8006	3.90	0.000
SCOTT	0.3177	0.1007	3.16	0.003
Step1	0.5839	0.1248	4.68	0.000
pScott	-0.6433	0.1492	-4.31	0.000
p2Scott	-0.4569	0.2300	-1.99	0.053
bScott	-0.8622	0.2516	-3.43	0.001
b2Scott	-0.8449	0.1773	-4.77	0.000
sScott	-0.6583	0.3855	-1.71	0.094
tpOd	0.290	1.917	0.15	0.880
tp2Od	2.336	2.159	1.08	0.285
tbOd	-0.003	1.285	-0.00	0.998
tb2Od	1.305	1.171	1.11	0.271
tsOd	-2.878	1.895	-1.52	0.135
Car Name				
Buick LaCrosse	-1.753	1.797	-0.98	0.334
Chevy SSR	-4.262	1.893	-2.25	0.029
Pontiac G6	-1.567	2.601	-0.60	0.550
(Car Name)Vehicle				
Buick LaCrosse 1	1.432	1.587	0.90	0.371
Pontiac G6 1	2.113	3.242	0.65	0.518
OIL				
A	0.02291	0.09920	0.23	0.818
B	-0.03922	0.09401	-0.42	0.678
C	0.01570	0.08843	0.18	0.860
D	0.14017	0.07845	1.79	0.080
E	0.06700	0.07387	0.91	0.369
G	0.05588	0.08420	0.66	0.510
H	0.1313	0.1075	1.22	0.228
I	-0.03105	0.08109	-0.38	0.703
J	-0.02853	0.08111	-0.35	0.727
K	0.0908	0.1096	0.83	0.411

Term	Coef
Constant	23.81
LNLNOD	0.6
SCOTT	0.19
Step1	1.0238
pScott	-0.4656
p2Scott	-0.298
bScott	-1.3053
b2Scott	-1.271
sScott	1.1004
tpOd	5.629
tp2Od	7.728
tbOd	3.913
tb2Od	4.461
tsOd	2.348
Car Name	
Buick LaCrosse	-1
Chevy SSR	-0.9
Pontiac G6	-5.3
(Car Name)Vehicle	
Buick LaCrosse 1	C
Pontiac G6 1	2.0
OIL	
A	-0.0347
B	0.0032
C	-0.1265
D	0.1177
E	0.3242
G	-0.0329
H	0.0911
I	0.0780
J	-0.0337
K	0.1233

Unusual Observations for FTP Mean

Unusual Observations

Obs	FTP Mean	Fit	SE Fit	Residual	St Resid
35	20.3725	20.6223	0.0899	-0.2498	-2.01 R
38	19.7850	20.1167	0.0611	-0.3317	-2.36 R
39	20.8300	20.5595	0.0967	0.2705	2.28 R

Obs	FFE Mean	Fi
35	33.8500	34.3030
38	33.0425	33.7630
40	34.4575	33.8330

54 15.4750 15.7725 0.1122 -0.2975 -2.85 R
 56 16.2475 15.9347 0.0773 0.3128 2.37 R
 65 16.5675 16.8185 0.0932 -0.2510 -2.06 R

R denotes an observa

R denotes an observation with a large standardized residual.

Means for Covariates

Means for Covariates

Covariate	Mean	StDev	Covariate	Mean	StDev
LNLNOD	2.34335	0.05027	sScott	0.00974	0.06337
SCOTT	0.21753	0.37247	tpOd	0.49517	0.97328
Step1	0.05195	0.22338	tp2Od	0.39528	0.88296
pScott	0.05844	0.22542	tbOd	0.36345	0.85160
p2Scott	0.04221	0.19619	tb2Od	0.36121	0.84645
bScott	0.01299	0.08974	tsOd	0.20942	0.66668
b2Scott	0.02597	0.14387			

Covariate	Mean	StDev
LNLNOD	2.34335	
SCOTT	0.21753	
Step1	0.05195	0.22338
pScott	0.05844	0.22542
p2Scott	0.04221	0.19619
bScott	0.01299	0.08974
b2Scott	0.02597	0.14387

Least Squares Means for FTP Mean

OIL	Mean	SE Mean
A	21.78	0.7706
B	21.72	0.7750
C	21.77	0.7580
D	21.89	0.7657
E	21.82	0.7506
G	21.81	0.7498
H	21.89	0.7653
I	21.72	0.7586
J	21.73	0.7560
K	21.85	0.7553
Z	21.33	0.7546

Car Name

Buick LaCrosse	20.00	1.6933
Chevy SSR	17.49	1.9145
Pontiac G6	20.19	2.0858
Saab Aero	29.34	3.8588

Tukey Simultaneous Tests

Response Variable FTP Mean

All Pairwise Comparisons among Levels of OIL

OIL = A subtracted from:

OIL	Difference of Means	SE of Difference	Adjusted T-Value	P-Value
B	-0.0621	0.1426	-0.436	1.0000
C	-0.0072	0.1278	-0.056	1.0000
D	0.1173	0.1304	0.899	0.9978
E	0.0441	0.1350	0.327	1.0000
G	0.0330	0.1351	0.244	1.0000

Least Squares Means

OIL	Mean	SE Mean
A	34.80	1.30
B	34.84	1.30
C	34.71	1.30
D	34.96	1.30
E	35.16	1.30
G	34.81	1.30
H	34.93	1.30
I	34.92	1.30
J	34.81	1.30
K	34.96	1.30
Z	34.33	1.30

Car Name

Buick LaCrosse	33.7
Chevy SSR	33.85
Pontiac G6	29.51
Saab Aero	42.23

Tukey Simultaneous Tests

Response Variable FF

All Pairwise Comparisons

OIL = A subtracted from:

OIL	Difference of Means	SE of Difference
B	0.0379	0.25
C	-0.0918	0.23
D	0.1524	0.23
E	0.3588	0.24
G	0.0018	0.24
H	0.1258	0.28
I	0.1127	0.250
J	0.0010	0.25

H	0.1084	0.1592	0.681	0.9998
I	-0.0540	0.1387	-0.389	1.0000
J	-0.0514	0.1396	-0.369	1.0000
K	0.0679	0.1611	0.422	1.0000
Z	-0.4479	0.1062	-4.218	0.0047

K	0.1580	0.29
Z	-0.4752	0.19

OIL = B subtracted from:

OIL = B subtracted from:

OIL	Difference of Means	SE of Difference	Adjusted T-Value	P-Value
C	0.0549	0.1389	0.395	1.0000
D	0.1794	0.1249	1.437	0.9325
E	0.1062	0.1263	0.841	0.9987
G	0.0951	0.1320	0.721	0.9997
H	0.1705	0.1540	1.107	0.9886
I	0.0082	0.1261	0.065	1.0000
J	0.0107	0.1321	0.081	1.0000
K	0.1300	0.1563	0.832	0.9988
Z	-0.3858	0.1015	-3.800	0.0160

OIL	Difference of Means	SE of Difference
C	-0.1297	0.25
D	0.1145	0.22
E	0.3210	0.22
G	-0.0361	0.23
H	0.0879	0.27
I	0.0748	0.227
J	-0.0369	0.238
K	0.1201	0.28
Z	-0.5131	0.18

OIL = C subtracted from:

OIL = C subtracted from:

OIL	Difference of Means	SE of Difference	Adjusted T-Value	P-Value
D	0.1245	0.11628	1.070	0.9911
E	0.0513	0.12315	0.417	1.0000
G	0.0402	0.12466	0.322	1.0000
H	0.1156	0.15193	0.761	0.9995
I	-0.0467	0.12988	-0.360	1.0000
J	-0.0442	0.12812	-0.345	1.0000
K	0.0751	0.15363	0.489	1.0000
Z	-0.4407	0.09678	-4.554	0.0017

OIL	Difference of Means	SE of Difference
D	0.2442	0.20
E	0.4506	0.22
G	0.0936	0.22
H	0.2176	0.27
I	0.2045	0.234
J	0.0927	0.237
K	0.2498	0.27
Z	-0.3834	0.17

OIL = D subtracted from:

OIL = D subtracted from:

OIL	Difference of Means	SE of Difference	Adjusted T-Value	P-Value
E	-0.0732	0.11288	-0.648	0.9999
G	-0.0843	0.12116	-0.696	0.9998
H	-0.0088	0.14418	-0.061	1.0000
I	-0.1712	0.11792	-1.452	0.9280
J	-0.1687	0.11837	-1.425	0.9358
K	-0.0493	0.14622	-0.337	1.0000
Z	-0.5652	0.08531	-6.625	0.0000

OIL	Difference of Means	SE of Difference
E	0.2064	0.20
G	-0.1506	0.21
H	-0.0266	0.26
I	-0.0397	0.212
J	-0.1514	0.215
K	0.0056	0.26
Z	-0.6276	0.15

OIL = E subtracted from:

OIL = E subtracted from:

OIL	Difference of Means	SE of Difference
G	-0.3570	0.21
H	-0.2331	0.24

OIL	Difference of Means	SE of Difference
G	-0.3570	0.21
H	-0.2331	0.24

OIL	of Means	Difference	T-Value	P-Value
G	-0.0111	0.11644	-0.096	1.0000
H	0.0643	0.13644	0.471	1.0000
I	-0.0981	0.11462	-0.855	0.9985
J	-0.0955	0.10790	-0.885	0.9981
K	0.0238	0.13321	0.179	1.0000
Z	-0.4920	0.08015	-6.139	0.0000

I	-0.2461	0.206
J	-0.3579	0.194
K	-0.2008	0.24
Z	-0.8340	0.14

OIL = G subtracted from:

OIL	of Means	Difference	SE of Difference	Adjusted T-Value	P-Value
H	0.0755	0.14708	0.513	1.0000	
I	-0.0869	0.12058	-0.721	0.9997	
J	-0.0844	0.12437	-0.679	0.9998	
K	0.0350	0.14784	0.236	1.0000	
Z	-0.4809	0.09070	-5.302	0.0002	

OIL = G subtracted fr

OIL	of Means	Difference	SE of Difference
H	0.1240	0.26	
I	0.1109	0.217	
J	-0.0009	0.224	
K	0.1562	0.26	
Z	-0.4770	0.16	

OIL = H subtracted from:

OIL	of Means	Difference	SE of Difference	Adjusted T-Value	P-Value
I	-0.1624	0.1378	-1.179	0.9820	
J	-0.1599	0.1380	-1.158	0.9841	
K	-0.0405	0.1585	-0.256	1.0000	
Z	-0.5563	0.1182	-4.709	0.0010	

OIL = H subtracted fr

OIL	of Means	Difference	SE of Difference
I	-0.0131	0.248	
J	-0.1248	0.244	
K	0.0322	0.28	
Z	-0.6010	0.21	

OIL = I subtracted from:

OIL	of Means	Difference	SE of Difference	Adjusted T-Value	P-Value
J	0.0025	0.11954	0.021	1.0000	
K	0.1219	0.14435	0.844	0.9987	
Z	-0.3940	0.08838	-4.458	0.0023	

OIL = I subtracted fro

OIL	of Means	Difference	SE of Difference
J	-0.1117	0.214	
K	0.0453	0.26	
Z	-0.5879	0.15	

OIL = J subtracted from:

OIL	of Means	Difference	SE of Difference	Adjusted T-Value	P-Value
K	0.1194	0.14101	0.846	0.9987	
Z	-0.3965	0.08873	-4.468	0.0022	

OIL = J subtracted fr

OIL	of Means	Difference	SE of Difference
K	0.1571	0.25	
Z	-0.4761	0.16	

OIL = K subtracted from:

OIL	of Means	Difference	SE of Difference	Adjusted T-Value	P-Value
Z	-0.5158	0.1206	-4.276	0.0039	

OIL = K subtracted fr

OIL	of Means	Difference	SE of Difference
Z	-0.6332	0.21	

Tukey Simultaneous T

Tukey Simultaneous Tests
 Response Variable FTP Mean
 All Pairwise Comparisons among Levels of Car Name
 Car Name = Buick LaCrosse subtracted from:

Car Name	Difference of Means	SE of Difference	Adjusted T-Value	P-Value
Chevy SSR	-2.509	2.399	-1.046	0.7235
Pontiac G6	0.185	3.493	0.053	0.9999
Saab Aero	9.335	4.296	2.173	0.1456

Car Name = Chevy SSR subtracted from:

Car Name	Difference of Means	SE of Difference	Adjusted T-Value	P-Value
Pontiac G6	2.695	3.586	0.7516	0.8756
Saab Aero	11.844	4.383	2.7025	0.0453

Car Name = Pontiac G6 subtracted from:

Car Name	Difference of Means	SE of Difference	Adjusted T-Value	P-Value
Saab Aero	9.149	5.049	1.812	0.2803

Response Variable FF
 All Pairwise Comparisons
 Car Name = Buick LaCrosse

Car Name	Difference of Means
Chevy SSR	0.080
Pontiac G6	-4.262
Saab Aero	8.464

Car Name = Chevy SSR

Car Name	Difference of Means
Pontiac G6	-4.342
Saab Aero	8.383

Car Name = Pontiac G6

Car Name	Difference of Means
Saab Aero	12.73

0	1	0	0	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	1	0
0	0	1	0	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	0.25	0
0	0	1	0	0	0	0	0	0	0.25	0
0	0	1	0	0	0	0	0	0	0.25	0
0	0	1	0	0	0	0	0	0	1	0
0	0	1	0	0	0	0	0	0	1	0
0	0	1	0	0	0	0	0	0	1	0
0	0	1	0	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	0.5	0
0	0	1	0	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0.5
0	0	0	1	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0.25
0	0	0	1	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0

Model: FFE Mean versus Car Name, OIL, Vehicle

Levels Values
 d 4 Buick LaCrosse, Chevy SSR, Pontiac G6, Saab
 Aero
 fixed 6 1, 2, 1, 1, 2, 1
 11 A, B, C, D, E, G, H, I, J, K, Z

Model for FFE Mean, using Adjusted SS for Tests

Seq SS	Adj SS	Adj MS	F	P
0.101	0.018	0.018	0.23	0.631
42.763	0.086	0.086	1.12	0.295
3.483	1.580	1.580	20.71	0.000
6.135	0.229	0.229	3.00	0.090
15.140	0.040	0.040	0.52	0.475
17.234	0.632	0.632	8.28	0.006
8.586	1.208	1.208	15.83	0.000
5.231	0.191	0.191	2.51	0.120
11.188	0.202	0.202	2.65	0.110
13.193	0.301	0.301	3.94	0.053
14.117	0.218	0.218	2.85	0.098
19.568	0.340	0.340	4.46	0.040

General Linear Model: COMB Mean versus

Factor Type Levels Values
 Car Name fixed 4 Buick LaCrosse,
 Aero
 Vehicle(Car Name) fixed 6 1, 2, 1, 1, 2
 OIL fixed 11 A, B, C, D, E, G, H, I, J, K, Z

Analysis of Variance for COMB Mean, using

Source	DF	Seq SS	Adj SS	Adj MS
LNLNOD	1	3.869	0.243	0.243
SCOTT	1	9.178	0.199	0.199
Step1	1	27.125	0.794	0.794
pScott	1	46.252	0.408	0.408
p2Scott	1	65.012	0.082	0.082
bScott	1	8.083	0.378	0.378
b2Scott	1	27.903	0.724	0.724
sScott	1	41.362	0.011	0.011
tpOd	1	30.795	0.019	0.019
tp2Od	1	117.486	0.078	0.078
tbOd	1	28.129	0.017	0.017
tb2Od	1	61.298	0.090	0.090

3.191 0.036 0.036 0.47 0.495
 0.179 0.150 0.050 0.65 0.584
 2 0.010 0.012 0.006 0.08 0.924
 748 5.748 0.575 7.53 0.000
 .663 3.663 0.076
 !1.531

= 99.79% R-Sq(adj) = 99.66%

Term	Coef	SE Coef	T	P
19	2.700	8.82	0.000	
398	1.444	0.48	0.631	
324	0.1815	1.06	0.295	
8	0.2250	4.55	0.000	
6	0.2690	-1.73	0.090	
39	0.4148	-0.72	0.475	
3	0.4536	-2.88	0.006	
18	0.3197	-3.98	0.000	
4	0.6951	1.58	0.120	
1	3.456	1.63	0.110	
3	3.894	1.98	0.053	
1	2.316	1.69	0.098	
1	2.112	2.11	0.040	
	3.417	0.69	0.495	

1.071 3.241 -0.33 0.743
 990 3.413 -0.29 0.773
 32 4.690 -1.14 0.261

0.640 2.861 0.22 0.824
 100 5.845 0.34 0.734

0.1789 -0.19 0.847
 0.1695 0.02 0.985
 0.1594 -0.79 0.432
 0.1415 0.83 0.409
 0.1332 2.43 0.019
 0.1518 -0.22 0.830
 0.1938 0.47 0.640
 0.1462 0.53 0.596
 0.1463 -0.23 0.819
 0.1976 0.62 0.536

s for FFE Mean

Obs	SE Fit	Residual	St Resid
10	0.1620	-0.4530	-2.02 R
15	0.1102	-0.7210	-2.85 R
14	0.1280	0.6241	2.55 R

tsOd	1	188.452	0.018	0.018	0
Car Name	3	0.101	0.161	0.054	
Vehicle(Car Name)	2	0.012	0.026	0.0	
OIL	10	4.427	4.427	0.443	13.
Error	48	1.559	1.559	0.032	
Total	76	661.042			

S = 0.180208 R-Sq = 99.76% R-Sq(adj) =

Term	Coef	SE Coef	T	P
Constant	16.838	1.761	9.56	0.000
LNLNOD	2.5755	0.9418	2.73	0.008
SCOTT	0.2934	0.1184	2.48	0.017
Step1	0.7258	0.1468	4.95	0.000
pScott	-0.6218	0.1755	-3.54	0.000
p2Scott	-0.4292	0.2706	-1.59	0.111
bScott	-1.0093	0.2959	-3.41	0.000
b2Scott	-0.9844	0.2085	-4.72	0.000
sScott	-0.2685	0.4534	-0.59	0.551
tpOd	1.741	2.255	0.77	0.444
tp2Od	3.936	2.540	1.55	0.128
tbOd	1.083	1.511	0.72	0.477
tb2Od	2.296	1.378	1.67	0.102
tsOd	-1.643	2.229	-0.74	0.465
Car Name				
Buick LaCrosse	-1.753	2.114	-0.83	0.409
Chevy SSR	-3.498	2.226	-1.57	0.117
Pontiac G6	-2.653	3.059	-0.87	0.383
(Car Name)Vehicle				
Buick LaCrosse 1	1.339	1.866	0.72	0.469
Pontiac G6 1	2.230	3.813	0.58	0.556
OIL				
A	0.0089	0.1167	0.08	0.940
B	-0.0291	0.1106	-0.26	0.793
C	-0.0208	0.1040	-0.20	0.842
D	0.13952	0.09229	1.51	0.137
E	0.13411	0.08690	1.54	0.129
G	0.03609	0.09905	0.36	0.717
H	0.1302	0.1265	1.03	0.308
I	-0.00322	0.09539	-0.03	0.973
J	-0.03105	0.09542	-0.33	0.746
K	0.1037	0.1289	0.80	0.425

Unusual Observations for COMB Mean

Obs	COMB Mean	Fit	SE Fit	Residual	St Resid
35	24.8193	25.1283	0.1057	-0.3090	-1.80 R
38	24.1442	24.5905	0.0719	-0.4463	-3.00 R
40	24.9728	24.6460	0.0835	0.3269	1.97 R

ation with a large standardized residual.

;

StDev	Covariate	Mean	StDev
0.05027	sScott	0.00974	0.06337
0.37247	tpOd	0.49517	0.97328
22338	tp2Od	0.39528	0.88296
22542	tbOd	0.36345	0.85160
.19619	tb2Od	0.36121	0.84645
08974	tsOd	0.20942	0.66668
.14387			

s for FFE Mean

E Mean

389
397
367
381
353
352
380
368
363
362
361
7 3.053
5 3.452
3.761
6.958

Tests

FE Mean

sons among Levels of OIL

rom:

	of	Adjusted
Difference	T-Value	P-Value
371	0.147	1.0000
305	-0.398	1.0000
351	0.648	0.9999
334	1.474	0.9212
436	0.007	1.0000
371	0.438	1.0000
01	0.451	1.0000
16	0.004	1.0000

54 18.3477 18.6125 0.1319 -0.2649

R denotes an observation with a large stanc

Means for Covariates

Covariate	Mean	StDev	Covariate	Me
LNLNOD	2.34335	0.05027	sScott	0.0
SCOTT	0.21753	0.37247	tpOd	0.49
Step1	0.05195	0.22338	tp2Od	0.395
pScott	0.05844	0.22542	tbOd	0.363
p2Scott	0.04221	0.19619	tb2Od	0.36
bScott	0.01299	0.08974	tsOd	0.209
b2Scott	0.02597	0.14387		

Least Squares Means for COMB Mean

OIL	Mean	SE Mean
-----	------	---------

A	26.18	0.9065
B	26.15	0.9117
C	26.15	0.8917
D	26.31	0.9007
E	26.31	0.8829
G	26.21	0.8821
H	26.31	0.9003
I	26.17	0.8924
J	26.14	0.8893
K	26.28	0.8885
Z	25.71	0.8876

Car Name

Buick LaCrosse	24.42	1.9919
Chevy SSR	22.68	2.2522
Pontiac G6	23.52	2.4537
Saab Aero	34.08	4.5392

Tukey Simultaneous Tests

Response Variable COMB Mean

All Pairwise Comparisons among Levels of

OIL = A subtracted from:

OIL	Difference of Means	SE of Difference	Adjusted T-Value	P-Val
B	-0.0380	0.1677	-0.227	1.0000
C	-0.0297	0.1504	-0.197	1.0000
D	0.1306	0.1534	0.852	0.9986
E	0.1252	0.1588	0.789	0.9993
G	0.0272	0.1589	0.171	1.0000
H	0.1213	0.1873	0.648	0.9999
I	-0.0121	0.1632	-0.074	1.0000

305	0.544	1.0000
315	-2.482	0.3403

from:

	Difference	Adjusted T-Value	P-Value
305	-0.518	1.0000	
3251	0.509	1.0000	
3278	1.409	0.9402	
3379	-0.152	1.0000	
3478	0.316	1.0000	
3574	0.329	1.0000	
3682	-0.155	1.0000	
3718	0.426	1.0000	
3830	-2.803	0.1880	

from:

	Difference	Adjusted T-Value	P-Value
397	1.165	0.9834	
421	2.029	0.6303	
4248	0.416	1.0000	
43740	0.794	0.9992	
4442	0.873	0.9983	
4510	0.401	1.0000	
4670	0.902	0.9977	
4745	-2.197	0.5178	

from:

	Difference	Adjusted T-Value	P-Value
4835	1.014	0.9942	
49185	-0.689	0.9998	
50300	-0.102	1.0000	
5126	-0.187	1.0000	
5234	-0.710	0.9997	
5337	0.021	1.0000	
5438	-4.080	0.0071	

from:

	Difference	Adjusted T-Value	P-Value
55100	-1.701	0.8278	
56460	-0.947	0.9966	

J	-0.0399	0.1642	-0.243	1.0000
K	0.0948	0.1895	0.500	1.0000
Z	-0.4771	0.1249	-3.819	0.0152

OIL = B subtracted from:

	Difference of Means	SE of Difference	Adjusted T-Value	P-Value
C	0.0083	0.1634	0.051	1.0000
D	0.1687	0.1469	1.148	0.9851
E	0.1633	0.1486	1.098	0.9892
G	0.0652	0.1552	0.420	1.0000
H	0.1593	0.1812	0.879	0.9982
I	0.0259	0.1483	0.175	1.0000
J	-0.0019	0.1554	-0.012	1.0000
K	0.1328	0.1838	0.723	0.9997
Z	-0.4391	0.1194	-3.677	0.0226

OIL = C subtracted from:

	Difference of Means	SE of Difference	Adjusted T-Value	P-Value
D	0.1603	0.1368	1.172	0.9827
E	0.1549	0.1449	1.069	0.9912
G	0.0569	0.1466	0.388	1.0000
H	0.1510	0.1787	0.845	0.9987
I	0.0176	0.1528	0.115	1.0000
J	-0.0103	0.1507	-0.068	1.0000
K	0.1245	0.1807	0.689	0.9998
Z	-0.4474	0.1138	-3.930	0.0111

OIL = D subtracted from:

	Difference of Means	SE of Difference	Adjusted T-Value	P-Value
E	-0.0054	0.1328	-0.041	1.0000
G	-0.1034	0.1425	-0.726	0.9996
H	-0.0094	0.1696	-0.055	1.0000
I	-0.1427	0.1387	-1.029	0.9935
J	-0.1706	0.1392	-1.225	0.9763
K	-0.0358	0.1720	-0.208	1.0000
Z	-0.6077	0.1004	-6.056	0.0000

OIL = E subtracted from:

	Difference of Means	SE of Difference	Adjusted T-Value	P-Value
G	-0.0980	0.13697	-0.716	0.9997

67	-1.191	0.9806
146	-1.839	0.7512
102	-0.836	0.9988
145	-5.771	0.0001

from:

of	Adjusted	
Difference	T-Value	P-Value
352	0.467	1.0000
74	0.510	1.0000
143	-0.004	1.0000
366	0.586	0.9999
335	-2.917	0.1483

from:

of	Adjusted	
Difference	T-Value	P-Value
84	-0.053	1.0000
188	-0.502	1.0000
357	0.113	1.0000
130	-2.821	0.1813

from:

of	Adjusted	
Difference	T-Value	P-Value
55	-0.518	1.0000
303	0.174	1.0000
394	-3.689	0.0219

from:

of	Adjusted	
Difference	T-Value	P-Value
343	0.618	0.9999
300	-2.976	0.1304

from:

of	Adjusted	
Difference	T-Value	P-Value
175	-2.911	0.1501

Tests

H	-0.0040	0.16049	-0.025	1.0000
I	-0.1373	0.13483	-1.019	0.9940
J	-0.1652	0.12693	-1.301	0.9642
K	-0.0304	0.15671	-0.194	1.0000
Z	-0.6023	0.09428	-6.389	0.0000

OIL = G subtracted from:

	Difference	SE of	Adjusted	
OIL	of Means	Difference	T-Value	P-Val
H	0.0941	0.1730	0.544	1.0000
I	-0.0393	0.1418	-0.277	1.0000
J	-0.0671	0.1463	-0.459	1.0000
K	0.0676	0.1739	0.389	1.0000
Z	-0.5043	0.1067	-4.727	0.0010

OIL = H subtracted from:

	Difference	SE of	Adjusted	
OIL	of Means	Difference	T-Value	P-Val
I	-0.1334	0.1621	-0.823	0.9989
J	-0.1612	0.1623	-0.993	0.9951
K	-0.0265	0.1864	-0.142	1.0000
Z	-0.5984	0.1390	-4.305	0.0036

OIL = I subtracted from:

	Difference	SE of	Adjusted	
OIL	of Means	Difference	T-Value	P-Val
J	-0.0278	0.1406	-0.198	1.0000
K	0.1069	0.1698	0.629	0.9999
Z	-0.4650	0.1040	-4.472	0.0022

OIL = J subtracted from:

	Difference	SE of	Adjusted	
OIL	of Means	Difference	T-Value	P-Val
K	0.1347	0.1659	0.812	0.9991
Z	-0.4372	0.1044	-4.188	0.0052

OIL = K subtracted from:

	Difference	SE of	Adjusted	
OIL	of Means	Difference	T-Value	P-Val
Z	-0.5719	0.1419	-4.030	0.0083

FE Mean
 comparisons among Levels of Car Name
 LaCrosse subtracted from:

	SE of Differences	Adjusted T-Value	P-Value
0	4.326	0.0186	1.0000
1	6.299	-0.6766	0.9055
2	7.747	1.0925	0.6958

SSR subtracted from:

	SE of Differences	Adjusted T-Value	P-Value
1	6.466	-0.6716	0.9073
2	7.903	1.0608	0.7147

G6 subtracted from:

	SE of Differences	Adjusted T-Value	P-Value
2	9.104	1.398	0.5069

Tukey Simultaneous Tests
 Response Variable COMB Mean
 All Pairwise Comparisons among Levels of
 Car Name = Buick LaCrosse subtracted from

Car Name	Difference of Means	SE of Difference	Adjusted T-Value
Chevy SSR	-1.745	2.822	-0.6181
Pontiac G6	-0.899	4.109	-0.2189
Saab Aero	9.657	5.054	1.9109

Car Name = Chevy SSR subtracted from:

Car Name	Difference of Means	SE of Difference	Adjusted T-Value
Pontiac G6	0.8453	4.218	0.2004
Saab Aero	11.4018	5.156	2.2116

Car Name = Pontiac G6 subtracted from:

Car Name	Difference of Means	SE of Difference	Adjusted T-Value
Saab Aero	10.56	5.939	1.777

pOd	p2Od	bOd	b2Od	rOd	sOd	Make	Vehicle	FTP Mean	STDEV(FTP)	
25994.25		0	0	0	0	0	-1	1	21.645	0.059160798
32867		0	0	0	0	0	-1	1	21.77	0.035590261
33088		0	0	0	0	0	-1	1	21.4125	0.168399327
39962		0	0	0	0	0	-1	1	21.7275	0.015
40172.75		0	0	0	0	0	-1	1	21.3825	0.060207973
47048		0	0	0	0	0	-1	1	22.215	0.019148542
47259.75		0	0	0	0	0	-1	1	21.78	0.085244746
54137.75		0	0	0	0	0	-1	1	22.145	0.193304596
54313.75		0	0	0	0	0	-1	1	21.65	0.070237692
61189		0	0	0	0	0	-1	1	21.975	0.038729833
61429		0	0	0	0	0	-1	1	21.8025	0.114418821
68301		0	0	0	0	0	-1	1	22.325	0.075938572
68481		0	0	0	0	0	-1	1	22.45	0.217408985
68642		0	0	0	0	0	-1	1	22.345	0.162992842
78016.75		0	0	0	0	0	-1	1	22.9325	0.110867789
78121		0	0	0	0	0	-1	1	22.56	0.141421356
0	13036.5		0	0	0	0	-1	2	21.5475	0.076757193
0	19951.75		0	0	0	0	-1	2	22.17	0.066833126
0	20149		0	0	0	0	-1	2	21.815	0.075055535
0	27043		0	0	0	0	-1	2	22.50667	0.045092498
0	27203.5		0	0	0	0	-1	2	22.125	0.096090235
0	34030.75		0	0	0	0	-1	2	22.69	0.090553851
0	34228		0	0	0	0	-1	2	22.26	0.389957263
0	41105.75		0	0	0	0	-1	2	22.61	0.102306728
0	41281		0	0	0	0	-1	2	22.275	0.055075705
0	48152.25		0	0	0	0	-1	2	22.84	0.148772757
0	48314.75		0	0	0	0	-1	2	22.2	0.084852814
0	55190		0	0	0	0	-1	2	23	0.0678233
0	55379		0	0	0	0	-1	2	22.613	0.129
0	0	11547		0	0	0	-3	1	19.705	0.331109247
0	0	18503		0	0	0	-3	1	20.4225	0.125266383
0	0	18725.5		0	0	0	-3	1	19.9125	0.035939764
0	0	25604.25		0	0	0	-3	1	20.4325	0.089953692
0	0	25813.25		0	0	0	-3	1	19.835	0.040414519
0	0	32691.25		0	0	0	-3	1	20.3725	0.18373441
0	0	32849.5		0	0	0	-3	1	19.9725	0.055602758
0	0	39743.75		0	0	0	-3	1	20.055	0.252652594
0	0	39948.75		0	0	0	-3	1	19.785	0.112694277
0	0	46810		0	0	0	-3	1	20.83	0.070710678
0	0	46966.75		0	0	0	-3	1	20.3825	0.067019898
0	0	53848		0	0	0	-3	1	20.82	0.063
0	0	0	7871.25		0	0	-3	2	19.465	0.058022984
0	0	0	14732		0	0	-3	2	20.46	0.10033278
0	0	0	14943		0	0	-3	2	19.43	0.080415587
0	0	0	21817.25		0	0	-3	2	20.6	0.068313005
0	0	0	22027.5		0	0	-3	2	20.2375	0.07410578
0	0	0	28895.33		0	0	-3	2	20.69	0.069282032
0	0	0	29060.75		0	0	-3	2	20.0925	0.097082439
0	0	0	35922.25		0	0	-3	2	20.2125	0.343644681
0	0	0	36128.75		0	0	-3	2	20.09	0.10198039
0	0	0	42990.25		0	0	-3	2	20.9375	0.117295922

0	0	0	49832	0	0	-3	2	20.845	0.120692447
0	0	0	50063	0	0	-3	2	20.5425	0.079739158
0	0	0	0	10849.25	0	3	1	15.475	0.059721576
0	0	0	0	17608	0	3	1	16.568	0.144464529
0	0	0	0	17804	0	3	1	16.2475	0.102428837
0	0	0	0	24684.5	0	3	1	16.685	0.108474267
0	0	0	0	24906.5	0	3	1	16.0925	0.212661703
0	0	0	0	31765	0	3	1	16.94	0.087559504
0	0	0	0	31967	0	3	1	16.5625	0.061305247
0	0	0	0	38915	0	3	1	16.8975	0.020615528
0	0	0	0	39121	0	3	1	16.53	0.080829038
0	0	0	0	46055	0	3	1	16.7	0.146515073
0	0	0	0	46281	0	3	1	16.3675	0.038622101
0	0	0	0	53179.75	0	3	1	16.5675	0.041932485
0	0	0	0	53392.75	0	3	1	16.1875	0.069940451
0	0	0	0	60288	0	3	1	16.5925	0.033040379
0	0	0	0	60459	0	3	1	16.26	0.060553007
0	0	0	0	67329	0	3	1	16.7425	0.052519838
0	0	0	0	67559	0	3	1	16.405	0.042031734
0	0	0	0	0	11567	1	1	21.24667	0.265015723
0	0	0	0	0	18428.5	1	1	21.4125	0.166007028
0	0	0	0	0	18645	1	1	21.13	0.055075705
0	0	0	0	0	25553	1	1	21.85	0.063770422
0	0	0	0	0	25842.75	1	1	21.26	0.065828059
0	0	0	0	0	32738	1	1	21.565	0.054467115
0	0	0	0	0	32948	1	1	21.2125	0.109658561

Car Name, OIL, Vehicle

Chevy SSR, Pontiac G6, Saab

2, 1
H, I, J, K, Z

Adjusted SS for Tests

S	F	P
7.48	0.009	
6.14	0.017	
4.46	0.000	
2.55	0.001	
2.52	0.119	
1.63	0.001	
22.28	0.000	
1.35	0.557	
1.60	0.444	
2.40	0.128	
1.51	0.477	
2.78	0.102	

0.54 0.465
1.65 0.189
0.13 0.41 0.668
0.63 0.000

= 99.63%

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0.411
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St Resid
-2.12 R
-2.70 R
2.05 R

-2.16 R

standardized residual.

mean	StDev
10974	0.06337
9517	0.97328
528	0.88296
145	0.85160
121	0.84645
142	0.66668

OIL

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Car Name
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e P-Value
0.9258
0.9962
0.2372

l
e P-Value
0.9971
0.1347

» P-Value
.2966

FTPWT	FFE Mean	STDEV(FFE)	FFEWT	COMB Mean	STDEV(COMB)	COMBWT	W1
285.7142857	34.715	0.375632799	7.087172	26.05973002	0.121521648	67.71622	1
789.4736842	35.155	0.15609826	41.03967	26.27110133	0.066058004	229.1654	1
35.26300323	34.6475	0.198053023	25.49395	25.85711949	0.174708705	32.76204	1
4444.444444	35.01	0.132413494	57.03422	26.20058325	0.041272773	587.0468	1
275.862069	34.405	0.103440804	93.45794	25.77209694	0.033947891	867.7096	1
2727.272727	35.6225	0.167605688	35.59775	26.74463818	0.040278882	616.3752	1
137.6146789	35.155	0.173108829	33.37041	26.27902282	0.090581961	121.8755	1
26.7618198	35.7775	0.302475894	10.92996	26.72784102	0.223686527	19.98575	1
202.7027027	34.9625	0.07804913	164.1587	26.12663179	0.071926658	193.2948	1
666.6666667	35.4225	0.219298123	20.79362	26.50244866	0.085176875	137.8341	1
76.38446849	34.92	0.201328918	24.67105	26.23746311	0.105901071	89.166	1
173.4104046	35.8825	0.282533184	12.5274	26.89800394	0.089936329	123.6317	0
21.15655853	36.13	0.305832198	10.69138	27.06069032	0.248179662	16.23557	0
37.64115433	36.09	0.248596058	16.18123	26.96647223	0.175157341	32.59442	0
81.3559322	37.145	0.110905365	81.30081	27.70219954	0.10659992	88.00072	0
50	36.6225	0.138894444	51.83585	27.27232276	0.127409955	61.60178	0
169.7312588	34.775	0.119023807	70.58824	25.99741892	0.0883641	128.0703	1
223.880597	35.725	0.093273791	114.9425	26.73468436	0.064045582	243.7932	1
177.5147929	35.1975	0.130735101	58.50804	26.31785533	0.091960995	118.2477	1
491.8032787	36.20333333	0.080208063	155.4404	27.12445823	0.016197382	3811.627	1
108.3032491	35.595	0.126622799	62.37006	26.6658205	0.081789644	149.487	1
121.9512195	36.42	0.095568475	109.4891	27.32553299	0.06279993	253.5605	1
6.57606313	35.645	0.310537169	10.36986	26.78562754	0.372528853	7.205766	1
95.54140127	36.365	0.099833194	100.3344	27.24789384	0.105768935	89.38893	1
329.6703297	35.8125	0.245136017	16.64124	26.84045695	0.066331561	227.2791	1
45.18072289	36.435	0.092556289	116.7315	27.44879353	0.136565007	53.6193	1
138.8888889	35.8	0.096263527	107.9137	26.77750969	0.066950459	223.0966	1
217.3913043	36.955	0.191224127	27.34731	27.70841742	0.092149376	117.7647	1
60.09254252	36.49	0.135	54.86968	27.282	0.123	66.09822	1
9.121313469	33.195	0.327871926	9.302326	24.11480652	0.350527106	8.138733	1
63.72809347	33.9825	0.241436672	17.15511	24.89215265	0.153654319	42.35556	1
774.1935484	33.54	0.262678511	14.49275	24.36757064	0.061590091	263.62	1
123.5839341	33.97	0.148548533	45.31722	24.89735177	0.106386224	88.35461	1
612.244898	33.1575	0.115578256	74.85964	24.21284639	0.057116313	306.5347	1
29.62231548	33.85	0.292460824	11.69135	24.81933757	0.218836244	20.88149	1
323.4501348	33.59	0.054772256	333.3333	24.42911856	0.052138268	367.8636	1
15.66579634	33.345	0.39306488	6.472492	24.4378021	0.290050463	11.88647	1
78.74015748	33.0425	0.285817541	12.24115	24.14420449	0.155941583	41.12218	1
200	34.51	0.27141604	13.57466	25.35233255	0.119284696	70.2798	1
222.6345083	34.4575	0.051881275	371.517	24.97282796	0.067107133	222.0561	1
251.9526329	35.153	0.081	152.4158	25.498	0.053	355.9986	1
297.029703	32.955	0.117331439	72.63923	23.86015939	0.070894032	198.9668	1
99.33774834	33.6225	0.255783111	15.28468	24.83475893	0.104564041	91.46086	1
154.6391753	32.255	0.14571662	47.09576	23.66411548	0.100211786	99.57777	1
214.2857143	34.1975	0.223215143	20.07025	25.08893427	0.082048812	148.5441	1
182.0940819	33.76	0.090553851	121.9512	24.68724386	0.070709649	200.0058	1
208.3333333	33.86666667	0.10214369	95.84665	25.08130253	0.07434635	180.9175	1
106.1007958	33.3175	0.112952792	78.38014	24.46184168	0.089853677	123.8592	1
8.467998024	33.34	0.360092581	7.712082	24.56491202	0.366683125	7.437349	1
96.15384615	33.2825	0.228965063	19.07487	24.45126516	0.121077839	68.21355	1
72.68322229	34.6575	0.192764969	26.91186	25.47576841	0.132213204	57.20715	1

68.64988558	34.545	0.132287566	57.14286	25.37313443	0.1281427	60.89929	1
157.2739187	34.34	0.123558353	65.50218	25.07625169	0.039588916	638.0472	1
280.3738318	23.7325	0.090691786	121.5805	18.34766104	0.048032484	433.4409	1
47.91566842	24.33	0.103682207	93.02326	19.34516079	0.134007418	55.68553	1
95.31374106	24.045	0.06244998	256.4103	19.02352669	0.090199496	122.9113	1
84.98583569	24.54	0.070710678	200	19.49268778	0.100292149	99.41825	1
22.1116639	23.9275	0.137204227	53.12085	18.87321127	0.189585667	27.82204	1
130.4347826	24.735	0.116761866	73.34963	19.73916082	0.079556001	157.9989	1
266.075388	24.4375	0.083815273	142.3488	19.37162742	0.068504383	213.0901	1
2352.941176	24.675	0.054467115	337.0787	19.69032134	0.007725407	16755.49	1
153.0612245	24.19	0.081240384	151.5152	19.27682222	0.072457319	190.4739	1
46.58385093	24.46	0.127279221	61.7284	19.48115577	0.145081018	47.50932	1
670.3910615	24.1675	0.051234754	380.9524	19.14856587	0.042791843	546.1073	1
568.7203791	24.4	0.104880885	90.90909	19.36475704	0.059003662	287.2381	1
204.4293015	24.0025	0.073654599	184.3318	18.96624197	0.04580059	476.7139	1
916.0305344	24.32	0.106458129	88.23529	19.36066288	0.018745614	2845.776	1
272.7272727	24.025	0.079372539	158.7302	19.02736996	0.065125689	235.7737	1
362.5377644	24.5925	0.028722813	1212.121	19.55077695	0.043607881	525.8599	1
566.0377358	24.1275	0.057373048	303.7975	19.16535945	0.022418745	1989.653	1
14.23825344	37.42333333	0.762911091	1.718115	26.37511162	0.264057727	14.34175	1
36.28666465	38.51	0.201494417	24.63054	26.758447	0.177296179	31.81275	1
329.6703297	37.885	0.133166562	56.39098	26.38000197	0.076292944	171.8032	1
245.9016393	39.0725	0.081802608	149.4396	27.25635621	0.070707019	200.0207	1
230.7692308	37.705	0.175594229	32.43243	26.45142618	0.064820057	238.0023	1
337.0786517	38.1975	0.160494029	38.82239	26.82016735	0.042051346	565.5099	1
83.16008316	37.7325	0.047871355	436.3636	26.41705037	0.094334181	112.373	1

W2	Step1	Step2	LNLNOD	tpOd	tp2Od	tbOd	tb2Od	trOd
1	0	0	2.319012	2.319012		0	0	0
1	0	0	2.341827	2.341827		0	0	0
1	0	0	2.342472	2.342472		0	0	0
1	0	0	2.360447	2.360447		0	0	0
1	0	0	2.360943	2.360943		0	0	0
1	0	0	2.375736	2.375736		0	0	0
1	0	0	2.376153	2.376153		0	0	0
1	0	0	2.388697	2.388697		0	0	0
1	0	0	2.388995	2.388995		0	0	0
1	0	0	2.399868	2.399868		0	0	0
1	0	0	2.400223	2.400223		0	0	0
0.5	0	1	2.409795	2.409795		0	0	0
0.5	1	1	2.410031	2.410031		0	0	0
0.5	1	1	2.410242	2.410242		0	0	0
0.5	1	1	2.421672	2.421672		0	0	0
0.5	1	1	2.421791	2.421791		0	0	0
1	0	0	2.24871		0 2.24871	0	0	0
1	0	0	2.292643		0 2.292643	0	0	0
1	0	0	2.293636		0 2.293636	0	0	0
1	0	0	2.322896		0 2.322896	0	0	0
1	0	0	2.323475		0 2.323475	0	0	0
1	0	0	2.345167		0 2.345167	0	0	0
1	0	0	2.345721		0 2.345721	0	0	0
1	0	0	2.363106		0 2.363106	0	0	0
1	0	0	2.363507		0 2.363507	0	0	0
1	0	0	2.377889		0 2.377889	0	0	0
1	0	0	2.378202		0 2.378202	0	0	0
1	0	0	2.390462		0 2.390462	0	0	0
1	0	0	2.390775		0 2.390775	0	0	0
1	0	0	2.235823		0 0 2.235823	0	0	0
1	0	0	2.285		0 0 2.285	0	0	0
1	0	0	2.286216		0 0 2.286216	0	0	0
1	0	0	2.317524		0 0 2.317524	0	0	0
1	0	0	2.318325		0 0 2.318325	0	0	0
1	0	0	2.341312		0 0 2.341312	0	0	0
1	0	0	2.341776		0 0 2.341776	0	0	0
1	0	0	2.35993		0 0 2.35993	0	0	0
1	0	0	2.360415		0 0 2.360415	0	0	0
1	0	0	2.375264		0 0 2.375264	0	0	0
1	0	0	2.375575		0 0 2.375575	0	0	0
1	0	0	2.388205		0 0 2.388205	0	0	0
1	0	0	2.193994		0 0 0 2.193994	0	0	0
1	0	0	2.261532		0 0 0 2.261532	0	0	0
1	0	0	2.263012		0 0 0 2.263012	0	0	0
1	0	0	2.30163		0 0 0 2.30163	0	0	0
1	0	0	2.30259		0 0 0 2.30259	0	0	0
1	0	0	2.329367		0 0 0 2.329367	0	0	0
1	0	0	2.329922		0 0 0 2.329922	0	0	0
1	0	0	2.350338		0 0 0 2.350338	0	0	0
1	0	0	2.350884		0 0 0 2.350884	0	0	0
1	0	0	2.367317		0 0 0 2.367317	0	0	0

1	0	0	2.381065	0	0	0	2.381065	0
1	0	0	2.381492	0	0	0	2.381492	0
1	0	0	2.229138	0	0	0	0	2.229138
1	0	0	2.279942	0	0	0	0	2.279942
1	0	0	2.281073	0	0	0	0	2.281073
1	0	0	2.313914	0	0	0	0	2.313914
1	0	0	2.314799	0	0	0	0	2.314799
1	0	0	2.338543	0	0	0	0	2.338543
1	0	0	2.339154	0	0	0	0	2.339154
1	0	0	2.357938	0	0	0	0	2.357938
1	0	0	2.358437	0	0	0	0	2.358437
1	0	0	2.373751	0	0	0	0	2.373751
1	0	0	2.374207	0	0	0	0	2.374207
1	0	0	2.387058	0	0	0	0	2.387058
1	0	0	2.387425	0	0	0	0	2.387425
1	0	0	2.398521	0	0	0	0	2.398521
1	0	0	2.398779	0	0	0	0	2.398779
1	0	0	2.408507	0	0	0	0	2.408507
1	0	0	2.408813	0	0	0	0	2.408813
1	0	0	2.236008	0	0	0	0	0
1	0	0	2.28459	0	0	0	0	0
1	0	0	2.285778	0	0	0	0	0
1	0	0	2.317327	0	0	0	0	0
1	0	0	2.318437	0	0	0	0	0
1	0	0	2.341449	0	0	0	0	0
1	0	0	2.342064	0	0	0	0	0

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