

***Analysis on Shutdown Effect using Poisson Model
(14SEP07)
by Julie Yee***

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11:29 Friday, September 14, 2007

***Model AMKE fatalities per TURBINE, using SM raptor scavenging rates
Sampling unit is TURBINE***

The NLMIXED Procedure

Additional Estimates								
Label	Estimate	Standard Error	DF	t Value	Pr > t 	Alpha	Lower	Upper
Mean/TURBINE/Day (Winter)	0.000533	0.000145	27E3	3.67	0.0002	0.1	0.000294	0.000771
Mean/TURBINE/Day (Spring)	0.000444	0.000119	27E3	3.72	0.0002	0.1	0.000248	0.000641
Mean/TURBINE/Day (Summer)	0.000283	0.000107	27E3	2.64	0.0082	0.1	0.000107	0.000458
Mean/TURBINE/Day (Autumn)	0.000671	0.000238	27E3	2.82	0.0047	0.1	0.000280	0.001062
Aut. vs. Wint. Daily Rate	0.000139	0.000276	27E3	0.50	0.6157	0.1	-0.00032	0.000593
Mean/TURBINE/Yr w/o Shutdown	0.1641	0.02603	27E3	6.30	<.0001	0.1	0.1213	0.2069
Shutdown Effect	-0.7701	0.1475	27E3	-5.22	<.0001	0.1	-1.0127	-0.5275
Mean/TURBINE/Yr w/ 4-mo Shut	0.1133	0.02051	27E3	5.52	<.0001	0.1	0.07955	0.1470
Prop. change w/ 4-mo Shut	-0.3097	0.08958	27E3	-3.46	0.0005	0.1	-0.4571	-0.1624
Mean/TURBINE/Yr w/ 3-mo Shut	0.1272	0.02137	27E3	5.95	<.0001	0.1	0.09205	0.1623
Prop. change w/ 3-mo Shut	-0.2250	0.07344	27E3	-3.06	0.0022	0.1	-0.3458	-0.1042
Lockdown Effect	-0.9892	0.002629	27E3	-376.21	<.0001	0.1	-0.9935	-0.9848

output from e:\reviews\altamont\m\analyses\14sep07\analyze 14SEP07.sas

***Analysis on Shutdown Effect using Poisson Model
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11:29 Friday, September 14, 2007

***Model BUOW fatalities per TURBINE, using SM raptor scavenging rates
Sampling unit is TURBINE***

The NLMIXED Procedure

Additional Estimates								
Label	Estimate	Standard Error	DF	t Value	Pr > t 	Alpha	Lower	Upper
Mean/TURBINE/Day (Winter)	0.000758	0.000165	27E3	4.59	<.0001	0.1	0.000486	0.001030
Mean/TURBINE/Day (Spring)	0.000432	0.000108	27E3	4.01	<.0001	0.1	0.000255	0.000610
Mean/TURBINE/Day (Summer)	0.000509	0.000141	27E3	3.60	0.0003	0.1	0.000276	0.000741
Mean/TURBINE/Day (Autumn)	0.000861	0.000251	27E3	3.43	0.0006	0.1	0.000448	0.001275
Aut. vs. Wint. Daily Rate	0.000103	0.000286	27E3	0.36	0.7177	0.1	-0.00037	0.000574
Mean/TURBINE/Yr w/o Shutdown	0.2228	0.03086	27E3	7.22	<.0001	0.1	0.1720	0.2736
Shutdown Effect	0.4276	0.4012	27E3	1.07	0.2865	0.1	-0.2323	1.0875
Mean/TURBINE/Yr w/ 4-mo Shut	0.2623	0.03292	27E3	7.97	<.0001	0.1	0.2082	0.3165
Prop. change w/ 4-mo Shut	0.1775	0.1562	27E3	1.14	0.2556	0.1	-0.07934	0.4344
Mean/TURBINE/Yr w/ 3-mo Shut	0.2520	0.02888	27E3	8.73	<.0001	0.1	0.2045	0.2995
Prop. change w/ 3-mo Shut	0.1309	0.1136	27E3	1.15	0.2491	0.1	-0.05591	0.3177
Lockdown Effect	-0.9635	0.004754	27E3	-202.67	<.0001	0.1	-0.9714	-0.9557

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***Analysis on Shutdown Effect using Poisson Model
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***Model GOEA fatalities per TURBINE, using LG raptor scavenging rates
Sampling unit is TURBINE***

The NLMIXED Procedure

Additional Estimates								
Label	Estimate	Standard Error	DF	t Value	Pr > t 	Alpha	Lower	Upper
Mean/TURBINE/Day (Winter)	0.000028	0.000017	27E3	1.60	0.1097	0.1	-7.84E-7	0.000056
Mean/TURBINE/Day (Spring)	0.000024	0.000014	27E3	1.67	0.0949	0.1	3.608E-7	0.000047
Mean/TURBINE/Day (Summer)	0.000081	0.000026	27E3	3.15	0.0016	0.1	0.000039	0.000123
Mean/TURBINE/Day (Autumn)	0.000104	0.000043	27E3	2.44	0.0148	0.1	0.000034	0.000174
Aut. vs. Wint. Daily Rate	0.000076	0.000045	27E3	1.68	0.0929	0.1	1.616E-6	0.000151
Mean/TURBINE/Yr w/o Shutdown	0.01989	0.004466	27E3	4.45	<.0001	0.1	0.01255	0.02724
Shutdown Effect	-0.3744	0.6775	27E3	-0.55	0.5805	0.1	-1.4888	0.7399
Mean/TURBINE/Yr w/ 4-mo Shut	0.01822	0.004346	27E3	4.19	<.0001	0.1	0.01107	0.02537
Prop. change w/ 4-mo Shut	-0.08426	0.1690	27E3	-0.50	0.6181	0.1	-0.3622	0.1937
Mean/TURBINE/Yr w/ 3-mo Shut	0.01896	0.004078	27E3	4.65	<.0001	0.1	0.01225	0.02566
Prop. change w/ 3-mo Shut	-0.04704	0.1013	27E3	-0.46	0.6424	0.1	-0.2137	0.1196
Lockdown Effect	-0.9992	0.000288	27E3	-3468.5	<.0001	0.1	-0.9997	-0.9988

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***Analysis on Shutdown Effect using Poisson Model
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***Model RTHA fatalities per TURBINE, using LG raptor scavenging rates
Sampling unit is TURBINE***

The NLMIXED Procedure

Additional Estimates								
Label	Estimate	Standard Error	DF	t Value	Pr > t 	Alpha	Lower	Upper
Mean/TURBINE/Day (Winter)	0.000340	0.000062	27E3	5.51	<.0001	0.1	0.000239	0.000442
Mean/TURBINE/Day (Spring)	0.000289	0.000048	27E3	6.02	<.0001	0.1	0.000210	0.000368
Mean/TURBINE/Day (Summer)	0.000208	0.000041	27E3	5.09	<.0001	0.1	0.000141	0.000275
Mean/TURBINE/Day (Autumn)	0.000571	0.000098	27E3	5.81	<.0001	0.1	0.000410	0.000733
Aut. vs. Wint. Daily Rate	0.000231	0.000113	27E3	2.05	0.0407	0.1	0.000045	0.000417
Mean/TURBINE/Yr w/o Shutdown	0.1158	0.01135	27E3	10.20	<.0001	0.1	0.09712	0.1345
Shutdown Effect	0.1669	0.3148	27E3	0.53	0.5959	0.1	-0.3509	0.6847
Mean/TURBINE/Yr w/ 4-mo Shut	0.1232	0.01172	27E3	10.51	<.0001	0.1	0.1039	0.1425
Prop. change w/ 4-mo Shut	0.06383	0.1172	27E3	0.54	0.5860	0.1	-0.1290	0.2566
Mean/TURBINE/Yr w/ 3-mo Shut	0.1209	0.009836	27E3	12.29	<.0001	0.1	0.1047	0.1371
Prop. change w/ 3-mo Shut	0.04412	0.08008	27E3	0.55	0.5817	0.1	-0.08760	0.1758
Lockdown Effect	-0.9892	0.001075	27E3	-920.09	<.0001	0.1	-0.9910	-0.9874

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***Analysis on Shutdown Effect using Poisson Model
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***Model AMKEGOEARTHA fatalities per TURBINE, using SM raptor scavenging rates
Sampling unit is TURBINE***

The NLMIXED Procedure

Additional Estimates								
Label	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper
Mean/TURBINE/Day (Winter)	0.001812	0.000252	27E3	7.19	<.0001	0.1	0.001398	0.002227
Mean/TURBINE/Day (Spring)	0.001544	0.000207	27E3	7.46	<.0001	0.1	0.001204	0.001884
Mean/TURBINE/Day (Summer)	0.001625	0.000248	27E3	6.55	<.0001	0.1	0.001217	0.002033
Mean/TURBINE/Day (Autumn)	0.003574	0.000521	27E3	6.87	<.0001	0.1	0.002717	0.004430
Aut. vs. Wint. Daily Rate	0.001762	0.000559	27E3	3.15	0.0016	0.1	0.000841	0.002682
Mean/TURBINE/Yr w/o Shutdown	0.7047	0.05375	27E3	13.11	<.0001	0.1	0.6162	0.7931
Shutdown Effect	-0.1618	0.1667	27E3	-0.97	0.3317	0.1	-0.4361	0.1124
Mean/TURBINE/Yr w/ 4-mo Shut	0.6652	0.05034	27E3	13.22	<.0001	0.1	0.5824	0.7480
Prop. change w/ 4-mo Shut	-0.05601	0.05996	27E3	-0.93	0.3503	0.1	-0.1546	0.04262
Mean/TURBINE/Yr w/ 3-mo Shut	0.6783	0.04748	27E3	14.28	<.0001	0.1	0.6002	0.7564
Prop. change w/ 3-mo Shut	-0.03745	0.04073	27E3	-0.92	0.3578	0.1	-0.1044	0.02954
Lockdown Effect	-0.9291	0.006374	27E3	-145.77	<.0001	0.1	-0.9396	-0.9186

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***Model AMKEGOEARTHA fatalities per TURBINE, using LG raptor scavenging rates
Sampling unit is TURBINE***

The NLMIXED Procedure

Additional Estimates								
Label	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper
Mean/TURBINE/Day (Winter)	0.000499	0.000075	27E3	6.62	<.0001	0.1	0.000375	0.000623
Mean/TURBINE/Day (Spring)	0.000427	0.000059	27E3	7.25	<.0001	0.1	0.000331	0.000524
Mean/TURBINE/Day (Summer)	0.000343	0.000052	27E3	6.55	<.0001	0.1	0.000257	0.000429
Mean/TURBINE/Day (Autumn)	0.000814	0.000118	27E3	6.91	<.0001	0.1	0.000621	0.001008
Aut. vs. Wint. Daily Rate	0.000316	0.000137	27E3	2.31	0.0210	0.1	0.000091	0.000541
Mean/TURBINE/Yr w/o Shutdown	0.1734	0.01378	27E3	12.58	<.0001	0.1	0.1507	0.1960
Shutdown Effect	-0.09070	0.2235	27E3	-0.41	0.6849	0.1	-0.4583	0.2769
Mean/TURBINE/Yr w/ 4-mo Shut	0.1675	0.01341	27E3	12.49	<.0001	0.1	0.1454	0.1896
Prop. change w/ 4-mo Shut	-0.03378	0.08473	27E3	-0.40	0.6901	0.1	-0.1732	0.1056
Mean/TURBINE/Yr w/ 3-mo Shut	0.1693	0.01168	27E3	14.49	<.0001	0.1	0.1501	0.1885
Prop. change w/ 3-mo Shut	-0.02348	0.05932	27E3	-0.40	0.6923	0.1	-0.1211	0.07410
Lockdown Effect	-0.9867	0.001187	27E3	-831.24	<.0001	0.1	-0.9887	-0.9848

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