

The NLMIXED Procedure

Specifications	
Data Set	WORK.AMKE4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	311.6
AIC (smaller is better)	315.6
AICC (smaller is better)	315.6
BIC (smaller is better)	330.9

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.000225	0.000055	15E3	4.10	<.0001	0.05	0.000117	0.000333	-0.01439
b	0.2399	0.1566	15E3	1.53	0.1256	0.05	-0.06706	0.5468	-4.4E-6

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.08213	0.02004	15E3	4.10	<.0001	0.05	0.04284	0.1214
Shutdown Effect	-0.7601	0.1566	15E3	-4.85	<.0001	0.05	-1.0671	-0.4532

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.AMKE4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	317.9
AIC (smaller is better)	321.9
AICC (smaller is better)	321.9
BIC (smaller is better)	337.2

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.002070	0.000506	15E3	4.09	<.0001	0.05	0.001078	0.003063	0.001384
b	0.2845	0.1839	15E3	1.55	0.1218	0.05	-0.07589	0.6449	3.397E-6

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

Model AMKE fatalities per MW, using SM raptor scavenging rates

Sampling unit is TURBINE

20:51 Tuesday, September 11, 2007

**Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.7556	0.1849	15E3	4.09	<.0001	0.05	0.3933	1.1180
Shutdown Effect	-0.7155	0.1839	15E3	-3.89	0.0001	0.05	-1.0759	-0.3551

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is $(1-b) \times 100\%$

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

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

The NLMIXED Procedure

Specifications	
Data Set	WORK.AMKE5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	215.2
AIC (smaller is better)	219.2
AICC (smaller is better)	219.2
BIC (smaller is better)	230.4

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.000224	0.000055	1992	4.08	<.0001	0.05	0.000116	0.000332	-0.00205
b	0.2472	0.1616	1992	1.53	0.1263	0.05	-0.06980	0.5642	-7.19E-7

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.08172	0.02005	1992	4.08	<.0001	0.05	0.04239	0.1210
Shutdown Effect	-0.7528	0.1616	1992	-4.66	<.0001	0.05	-1.0698	-0.4358

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.AMKE5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	221.5
AIC (smaller is better)	225.5
AICC (smaller is better)	225.5
BIC (smaller is better)	236.7

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.002058	0.000507	1992	4.06	<.0001	0.05	0.001064	0.003052	-0.00003
b	0.2944	0.1906	1992	1.54	0.1226	0.05	-0.07941	0.6683	-9.94E-8

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

Model AMKE fatalities per MW, using SM raptor scavenging rates

Sampling unit is STRING

20:51 Tuesday, September 11, 2007

**Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.7511	0.1849	1992	4.06	<.0001	0.05	0.3885	1.1138
Shutdown Effect	-0.7056	0.1906	1992	-3.70	0.0002	0.05	-1.0794	-0.3317

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is $(1-b) \times 100\%$

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.BUOW4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	657.1
AIC (smaller is better)	661.1
AICC (smaller is better)	661.1
BIC (smaller is better)	676.3

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.000249	0.000061	15E3	4.06	<.0001	0.05	0.000129	0.000370	-0.00301
b	1.8351	0.6070	15E3	3.02	0.0025	0.05	0.6453	3.0249	2.188E-6

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.09099	0.02239	15E3	4.06	<.0001	0.05	0.04711	0.1349
Shutdown Effect	0.8351	0.6070	15E3	1.38	0.1689	0.05	-0.3547	2.0249

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.BUOW4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	666.2
AIC (smaller is better)	670.2
AICC (smaller is better)	670.2
BIC (smaller is better)	685.4

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.002253	0.000561	15E3	4.02	<.0001	0.05	0.001154	0.003352	0.003021
b	2.1879	0.7267	15E3	3.01	0.0026	0.05	0.7636	3.6123	4.132E-6

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

Model BUOW fatalities per MW, using SM raptor scavenging rates

Sampling unit is TURBINE

20:51 Tuesday, September 11, 2007

**Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.8224	0.2046	15E3	4.02	<.0001	0.05	0.4212	1.2235
Shutdown Effect	1.1879	0.7267	15E3	1.63	0.1021	0.05	-0.2364	2.6123

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

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

The NLMIXED Procedure

Specifications	
Data Set	WORK.BUOW5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	444.1
AIC (smaller is better)	448.1
AICC (smaller is better)	448.1
BIC (smaller is better)	459.3

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.000249	0.000061	1992	4.06	<.0001	0.05	0.000129	0.000370	-0.003
b	1.8351	0.6070	1992	3.02	0.0025	0.05	0.6447	3.0255	2.189E-6

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.09099	0.02239	1992	4.06	<.0001	0.05	0.04709	0.1349
Shutdown Effect	0.8351	0.6070	1992	1.38	0.1690	0.05	-0.3553	2.0255

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.BUOW5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	453.2
AIC (smaller is better)	457.2
AICC (smaller is better)	457.2
BIC (smaller is better)	468.4

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.002253	0.000561	1992	4.02	<.0001	0.05	0.001154	0.003353	0.003022
b	2.1879	0.7267	1992	3.01	0.0026	0.05	0.7628	3.6131	4.132E-6

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

Model BUOW fatalities per MW, using SM raptor scavenging rates

16

Sampling unit is STRING

20:51 Tuesday, September 11, 2007

**Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.8224	0.2046	1992	4.02	<.0001	0.05	0.4210	1.2237
Shutdown Effect	1.1879	0.7267	1992	1.63	0.1023	0.05	-0.2372	2.6131

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is $(1-b) \times 100\%$

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.GOEA4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	89.1
AIC (smaller is better)	93.1
AICC (smaller is better)	93.1
BIC (smaller is better)	108.3

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.000011	7.33E-6	15E3	1.45	0.1480	0.05	-3.76E-6	0.000025	5.614378
b	0.7596	0.9466	15E3	0.80	0.4223	0.05	-1.0959	2.6151	0.000041

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.003871	0.002676	15E3	1.45	0.1480	0.05	-0.00137	0.009116
Shutdown Effect	-0.2404	0.9466	15E3	-0.25	0.7995	0.05	-2.0959	1.6151

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is $(1-b) \times 100\%$

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.GOEA4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	88.6
AIC (smaller is better)	92.6
AICC (smaller is better)	92.6
BIC (smaller is better)	107.8

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.000092	0.000062	15E3	1.48	0.1392	0.05	-0.00003	0.000213	0.048382
b	1.0385	1.2163	15E3	0.85	0.3932	0.05	-1.3456	3.4226	2.033E-6

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

*Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.03345	0.02262	15E3	1.48	0.1392	0.05	-0.01089	0.07778
Shutdown Effect	0.03849	1.2163	15E3	0.03	0.9748	0.05	-2.3456	2.4226

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

Model GOEA fatalities per TURBINE, using LG raptor scavenging rates
Sampling unit is STRING

The NLMIXED Procedure

Specifications	
Data Set	WORK.GOEA5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	73.4
AIC (smaller is better)	77.4
AICC (smaller is better)	77.4
BIC (smaller is better)	88.5

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.000011	7.33E-6	1992	1.45	0.1481	0.05	-3.77E-6	0.000025	5.614405
b	0.7596	0.9466	1992	0.80	0.4224	0.05	-1.0969	2.6161	0.000041

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

*Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.003871	0.002676	1992	1.45	0.1481	0.05	-0.00138	0.009118
Shutdown Effect	-0.2404	0.9466	1992	-0.25	0.7996	0.05	-2.0969	1.6161

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

Model GOEA fatalities per MW, using LG raptor scavenging rates
Sampling unit is STRING

The NLMIXED Procedure

Specifications	
Data Set	WORK.GOEA5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	72.8
AIC (smaller is better)	76.8
AICC (smaller is better)	76.8
BIC (smaller is better)	88.0

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.000092	0.000062	1992	1.48	0.1394	0.05	-0.00003	0.000213	0.048391
b	1.0385	1.2163	1992	0.85	0.3933	0.05	-1.3468	3.4238	2.033E-6

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

*Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.03345	0.02262	1992	1.48	0.1394	0.05	-0.01091	0.07781
Shutdown Effect	0.03849	1.2163	1992	0.03	0.9748	0.05	-2.3468	2.4238

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is $(1-b) \times 100\%$

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.RTHA4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	1139.8
AIC (smaller is better)	1143.8
AICC (smaller is better)	1143.8
BIC (smaller is better)	1159.1

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.000217	0.000033	15E3	6.62	<.0001	0.05	0.000153	0.000281	0.025204
b	0.6236	0.1955	15E3	3.19	0.0014	0.05	0.2404	1.0069	-0.00003

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.07920	0.01196	15E3	6.62	<.0001	0.05	0.05576	0.1026
Shutdown Effect	-0.3764	0.1955	15E3	-1.93	0.0542	0.05	-0.7596	0.006855

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.RTHA4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	1157.0
AIC (smaller is better)	1161.0
AICC (smaller is better)	1161.0
BIC (smaller is better)	1176.2

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.001843	0.000286	15E3	6.44	<.0001	0.05	0.001282	0.002404	0.043493
b	0.9047	0.2659	15E3	3.40	0.0007	0.05	0.3835	1.4259	0.00004

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

*Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.6728	0.1045	15E3	6.44	<.0001	0.05	0.4680	0.8776
Shutdown Effect	-0.09530	0.2659	15E3	-0.36	0.7200	0.05	-0.6165	0.4259

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

Model RTHA fatalities per TURBINE, using LG raptor scavenging rates
Sampling unit is STRING

The NLMIXED Procedure

Specifications	
Data Set	WORK.RTHA5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	738.9
AIC (smaller is better)	742.9
AICC (smaller is better)	742.9
BIC (smaller is better)	754.1

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.000217	0.000033	1992	6.62	<.0001	0.05	0.000152	0.000281	0.023393
b	0.6267	0.1960	1992	3.20	0.0014	0.05	0.2422	1.0111	-0.00003

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.07906	0.01194	1992	6.62	<.0001	0.05	0.05564	0.1025
Shutdown Effect	-0.3733	0.1960	1992	-1.90	0.0570	0.05	-0.7578	0.01113

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

Model RTHA fatalities per MW, using LG raptor scavenging rates
Sampling unit is STRING

The NLMIXED Procedure

Specifications	
Data Set	WORK.RTHA5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	756.0
AIC (smaller is better)	760.0
AICC (smaller is better)	760.1
BIC (smaller is better)	771.2

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.001840	0.000286	1992	6.44	<.0001	0.05	0.001280	0.002401	0.089351
b	0.9082	0.2665	1992	3.41	0.0007	0.05	0.3856	1.4309	0.000082

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

*Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.6717	0.1044	1992	6.44	<.0001	0.05	0.4670	0.8764
Shutdown Effect	-0.09178	0.2665	1992	-0.34	0.7306	0.05	-0.6144	0.4309

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.AMKEBUOW4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	893.2
AIC (smaller is better)	897.2
AICC (smaller is better)	897.2
BIC (smaller is better)	912.4

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.000479	0.000083	15E3	5.79	<.0001	0.05	0.000317	0.000642	-0.04311
b	1.0538	0.2810	15E3	3.75	0.0002	0.05	0.5031	1.6046	-0.00001

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.1750	0.03023	15E3	5.79	<.0001	0.05	0.1157	0.2343
Shutdown Effect	0.05384	0.2810	15E3	0.19	0.8481	0.05	-0.4969	0.6046

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.AMKEBUOW4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	908.7
AIC (smaller is better)	912.7
AICC (smaller is better)	912.7
BIC (smaller is better)	927.9

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.004367	0.000761	15E3	5.74	<.0001	0.05	0.002875	0.005859	-0.00819
b	1.2497	0.3335	15E3	3.75	0.0002	0.05	0.5960	1.9035	-0.00004

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	1.5941	0.2779	15E3	5.74	<.0001	0.05	1.0494	2.1387
Shutdown Effect	0.2497	0.3335	15E3	0.75	0.4540	0.05	-0.4040	0.9035

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.AMKEBUOW5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	588.4
AIC (smaller is better)	592.4
AICC (smaller is better)	592.4
BIC (smaller is better)	603.6

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.000476	0.000083	1992	5.75	<.0001	0.05	0.000314	0.000638	-0.43243
b	1.0705	0.2867	1992	3.73	0.0002	0.05	0.5082	1.6328	-0.00004

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
 and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.1737	0.03021	1992	5.75	<.0001	0.05	0.1145	0.2330
Shutdown Effect	0.07052	0.2867	1992	0.25	0.8057	0.05	-0.4918	0.6328

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.AMKEBUOW5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	603.8
AIC (smaller is better)	607.8
AICC (smaller is better)	607.8
BIC (smaller is better)	619.0

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.004331	0.000761	1992	5.70	<.0001	0.05	0.002840	0.005823	-0.00019
b	1.2717	0.3410	1992	3.73	0.0002	0.05	0.6030	1.9404	-6.15E-7

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

***Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.***

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	1.5809	0.2776	1992	5.70	<.0001	0.05	1.0365	2.1252
Shutdown Effect	0.2717	0.3410	1992	0.80	0.4257	0.05	-0.3970	0.9404

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.GOEARTHA4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	1189.2
AIC (smaller is better)	1193.2
AICC (smaller is better)	1193.2
BIC (smaller is better)	1208.5

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.000227	0.000033	15E3	6.80	<.0001	0.05	0.000162	0.000293	-3.47252
b	0.6310	0.1914	15E3	3.30	0.0010	0.05	0.2558	1.0062	-0.00043

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.08302	0.01222	15E3	6.80	<.0001	0.05	0.05907	0.1070
Shutdown Effect	-0.3690	0.1914	15E3	-1.93	0.0539	0.05	-0.7442	0.006180

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.GOEARTHA4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	1205.8
AIC (smaller is better)	1209.8
AICC (smaller is better)	1209.8
BIC (smaller is better)	1225.1

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.001934	0.000293	15E3	6.61	<.0001	0.05	0.001360	0.002508	-0.00229
b	0.9120	0.2598	15E3	3.51	0.0004	0.05	0.4027	1.4213	-2.01E-6

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.7059	0.1068	15E3	6.61	<.0001	0.05	0.4965	0.9153
Shutdown Effect	-0.08803	0.2598	15E3	-0.34	0.7347	0.05	-0.5973	0.4213

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.GOEARTHA5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	774.0
AIC (smaller is better)	778.0
AICC (smaller is better)	778.0
BIC (smaller is better)	789.2

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.000227	0.000033	1992	6.79	<.0001	0.05	0.000162	0.000293	-0.00111
b	0.6339	0.1919	1992	3.30	0.0010	0.05	0.2576	1.0102	-3.23E-6

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.08288	0.01220	1992	6.79	<.0001	0.05	0.05895	0.1068
Shutdown Effect	-0.3661	0.1919	1992	-1.91	0.0565	0.05	-0.7424	0.01021

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.GOEARTHA5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	790.6
AIC (smaller is better)	794.6
AICC (smaller is better)	794.6
BIC (smaller is better)	805.8

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.001931	0.000292	1992	6.61	<.0001	0.05	0.001358	0.002505	-0.01555
b	0.9153	0.2604	1992	3.52	0.0004	0.05	0.4046	1.4259	-0.00001

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.7049	0.1067	1992	6.61	<.0001	0.05	0.4956	0.9142
Shutdown Effect	-0.08471	0.2604	1992	-0.33	0.7450	0.05	-0.5954	0.4259

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.COMBINED4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	1865.5
AIC (smaller is better)	1869.5
AICC (smaller is better)	1869.5
BIC (smaller is better)	1884.8

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.001200	0.000131	15E3	9.14	<.0001	0.05	0.000943	0.001458	0.122839
b	0.9859	0.1706	15E3	5.78	<.0001	0.05	0.6516	1.3203	-2.68E-6

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.4382	0.04793	15E3	9.14	<.0001	0.05	0.3442	0.5321
Shutdown Effect	-0.01407	0.1706	15E3	-0.08	0.9343	0.05	-0.3484	0.3203

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.COMBINED4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	1896.3
AIC (smaller is better)	1900.3
AICC (smaller is better)	1900.3
BIC (smaller is better)	1915.6

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.01093	0.001206	15E3	9.06	<.0001	0.05	0.008565	0.01329	0.000942
b	1.1722	0.2023	15E3	5.79	<.0001	0.05	0.7756	1.5687	-3.65E-6

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	3.9890	0.4401	15E3	9.06	<.0001	0.05	3.1264	4.8516
Shutdown Effect	0.1722	0.2023	15E3	0.85	0.3949	0.05	-0.2244	0.5687

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.COMBINED5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	1148.3
AIC (smaller is better)	1152.3
AICC (smaller is better)	1152.3
BIC (smaller is better)	1163.5

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.001197	0.000131	1992	9.12	<.0001	0.05	0.000940	0.001455	0.122641
b	0.9922	0.1719	1992	5.77	<.0001	0.05	0.6550	1.3294	-6.14E-6

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
 and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.4369	0.04792	1992	9.12	<.0001	0.05	0.3430	0.5309
Shutdown Effect	-0.00783	0.1719	1992	-0.05	0.9637	0.05	-0.3450	0.3294

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.COMBINED5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	1179.0
AIC (smaller is better)	1183.0
AICC (smaller is better)	1183.0
BIC (smaller is better)	1194.2

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.01089	0.001205	1992	9.04	<.0001	0.05	0.008530	0.01326	0.000079
b	1.1804	0.2041	1992	5.78	<.0001	0.05	0.7801	1.5806	-4.33E-7

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	3.9762	0.4399	1992	9.04	<.0001	0.05	3.1135	4.8389
Shutdown Effect	0.1804	0.2041	1992	0.88	0.3769	0.05	-0.2199	0.5806

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.COMBINED4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	1854.4
AIC (smaller is better)	1858.4
AICC (smaller is better)	1858.4
BIC (smaller is better)	1873.7

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.000348	0.000041	15E3	8.44	<.0001	0.05	0.000268	0.000429	-0.8099
b	0.8262	0.1778	15E3	4.65	<.0001	0.05	0.4777	1.1746	0.000076

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.1272	0.01506	15E3	8.44	<.0001	0.05	0.09765	0.1567
Shutdown Effect	-0.1738	0.1778	15E3	-0.98	0.3282	0.05	-0.5223	0.1746

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.COMBINED4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	1884.2
AIC (smaller is better)	1888.2
AICC (smaller is better)	1888.2
BIC (smaller is better)	1903.5

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.002966	0.000362	15E3	8.19	<.0001	0.05	0.002257	0.003676	-0.00156
b	1.1603	0.2407	15E3	4.82	<.0001	0.05	0.6884	1.6322	-2.73E-6

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	1.0826	0.1321	15E3	8.19	<.0001	0.05	0.8236	1.3416
Shutdown Effect	0.1603	0.2407	15E3	0.67	0.5055	0.05	-0.3116	0.6322

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.COMBINED5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	1137.7
AIC (smaller is better)	1141.7
AICC (smaller is better)	1141.7
BIC (smaller is better)	1152.8

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.000347	0.000041	1992	8.42	<.0001	0.05	0.000266	0.000428	0.004907
b	0.8330	0.1791	1992	4.65	<.0001	0.05	0.4818	1.1842	-9.42E-6

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

**Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
 and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.1267	0.01504	1992	8.42	<.0001	0.05	0.09723	0.1562
Shutdown Effect	-0.1670	0.1791	1992	-0.93	0.3512	0.05	-0.5182	0.1842

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.COMBINED5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	1167.3
AIC (smaller is better)	1171.3
AICC (smaller is better)	1171.3
BIC (smaller is better)	1182.5

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Gradient
a	0.002955	0.000361	1992	8.18	<.0001	0.05	0.002247	0.003664	0.00185
b	1.1696	0.2424	1992	4.82	<.0001	0.05	0.6941	1.6450	-0.00001

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas

Model COMBINED fatalities per MW, using LG raptor scavenging rates

Sampling unit is STRING

20:51 Tuesday, September 11, 2007

**Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	1.0787	0.1319	1992	8.18	<.0001	0.05	0.8200	1.3373
Shutdown Effect	0.1696	0.2424	1992	0.70	0.4843	0.05	-0.3059	0.6450

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is $(1-b) \times 100\%$

output from e:\reviews\altamont\m\analyses\analyze 11SEP07.sas