Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3, 4 & 6, October-November, 1995.

---------- RELEASE SITE=SPILBAY_6 TEST=CONTROL ----------

TABLE OF RECAP BY TRIAL

RECAP(RECAPTURE CONDITION) TRIAL

Frequency Expected Cell Chi-Square	1	2	3	Total
ALIVE	34 33.667 0.0033	38 38.476 0.0059	29 28.857 0.0007	101
DEAD	1 1.3333 0.0833	2 1.5238 0.1488	1 1.1429 0.0179	4
Total	35	40	30	105

STATISTICS FOR TABLE OF RECAP BY TRIAL

Statistic	DF	Value	Prob
Chi-Square	2	0.260	0.878
Likelihood Ratio Chi-Square	2	0.255	0.880
Mantel-Haenszel Chi-Square	1	0.015	0.902
Fisher's Exact Test (2-Tail)			1.000
Phi Coefficient		0.050	
Contingency Coefficient		0.050	
Cramer's V		0.050	

Sample Size = 105
WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3, 4 & 6, October-November, 1995.

---------- RELEASE SITE=SPILBAY_6 TEST=TREATMENT ----------

TABLE OF RECAP BY TRIAL

RECAP(RECAPTURE CONDITION) TRIAL

Frequency Expected Cell Chi-Square	1	2	3	Total
ALIVE	62 66 0.2424	79 75.429 0.1691	57 56.571 0.0032	198
DEAD	7 3.3333 4.0333	1 3.8095 2.072	2 2.8571 0.2571	10
UNKNOWN	1 0.6667 0.1667	0 0.7619 0.7619	1 0.5714 0.3214	2
Total	70	80	60	210

STATISTICS FOR TABLE OF RECAP BY TRIAL

Statistic	DF	Value	Prob
Chi-Square	4	8.027	0.091
Likelihood Ratio Chi-Square	4	8.633	0.071
Mantel-Haenszel Chi-Square	1	1.775	0.183
Fisher's Exact Test (2-Tail)			4.98E-02
Phi Coefficient		0.196	
Contingency Coefficient		0.192	
Cramer's V		0.138	

Sample Size = 210
WARNING: 67% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3 & 4, October-November, 1995.

---------- RELEASE SITE=SPILBAY_3 TEST=CONTROL ----------

TABLE OF RECAP BY TRIAL

RECAP(RECAPTURE CONDITION) TRIAL

Frequency Expected Cell Chi-Square	1	2	3	4	5	7	8	Total
ALIVE	39 38.957 485E-7	39 38.957 485E-7	30 29.217 0.021	39 38.957 485E-7	40 38.957 0.028	18 19.478 0.1122	19 19.478 0.0117	224
DEAD	1 0.6957 0.1332	1 0.6957 0.1332	0 0.5217 0.5217	1 0.6957 0.1332	0 0.6957 0.6957	1 0.3478 1.2228	0 0.3478 0.3478	4
UNKNOWN	0 0.3478 0.3478	0 0.3478 0.3478	0 0.2609 0.2609	0 0.3478 0.3478	0 0.3478 0.3478	1 0.1739 3.9239	1 0.1739 3.9239	2
Total	40	40	30	40	40	20	20	230

Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3 & 4, October-November, 1995.

---------- RELEASE SITE=SPILBAY_3 TEST=CONTROL ----------

STATISTICS FOR TABLE OF RECAP BY TRIAL

Statistic	DF	Value	Prob
Chi-Square	12	12.860	0.379
Likelihood Ratio Chi-Square	12	11.462	0.490
Mantel-Haenszel Chi-Square	1	2.461	0.117
Phi Coefficient		0.236	
Contingency Coefficient		0.230	
Cramer's V		0.167	

Statistic	Value	ASE
Gamma	0.243	0.306
Kendall's Tau-b	0.052	0.067
Stuart's Tau-c	0.016	0.022
Somers' D C|R	0.212	0.271
Somers' D R|C	0.013	0.017
Pearson Correlation	0.104	0.073
Spearman Correlation	0.060	0.077
Lambda Asymmetric C|R	0.011	0.047
Lambda Asymmetric R|C	0.000	0.000
Lambda Symmetric	0.010	0.045
Uncertainty Coefficient C|R	0.013	0.006
Uncertainty Coefficient R|C	0.181	0.048
Uncertainty Coefficient Symmetric	0.024	0.011

Sample Size = 230
WARNING: 67% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3 & 4, October-November, 1995.

---------- RELEASE SITE=SPILBAY_3 TEST=TREATMENT ----------

TABLE OF RECAP BY TRIAL

RECAP(RECAPTURE CONDITION) TRIAL

Frequency Expected Cell Chi-Square	1	2	3	4	5	7	8	Total
ALIVE	39 37.481 0.0615	38 37.481 0.0072	25 28.111 0.3443	39 37.481 0.0615	38 37.481 0.0072	36 37.481 0.0586	38 37.481 0.0072	253
DEAD	1 2.5185 0.9156	2 2.5185 0.1068	5 1.8889 5.1242	1 2.5185 0.9156	2 2.5185 0.1068	4 2.5185 0.8715	2 2.5185 0.1068	17
Total	40	40	30	40	40	40	40	270

Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3 & 4, October-November, 1995.

---------- RELEASE SITE=SPILBAY_3 TEST=TREATMENT ----------

STATISTICS FOR TABLE OF RECAP BY TRIAL

Statistic	DF	Value	Prob
Chi-Square	6	8.694	0.192
Likelihood Ratio Chi-Square	6	7.534	0.274
Mantel-Haenszel Chi-Square	1	0.173	0.678
Phi Coefficient		0.179	
Contingency Coefficient		0.177	
Cramer's V		0.179	

Statistic	Value	ASE
Gamma	0.070	0.151
Kendall's Tau-b	0.022	0.049
Stuart's Tau-c	0.014	0.031
Somers' D C|R	0.060	0.131
Somers' D R|C	0.008	0.018
Pearson Correlation	0.025	0.055
Spearman Correlation	0.026	0.056
Lambda Asymmetric C|R	0.017	0.011
Lambda Asymmetric R|C	0.000	0.000
Lambda Symmetric	0.016	0.010
Uncertainty Coefficient C|R	0.007	0.005
Uncertainty Coefficient R|C	0.059	0.043
Uncertainty Coefficient Symmetric	0.013	0.010

Sample Size = 270
WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3 & 4, October-November, 1995.

---------- RELEASE SITE=SPILBAY_4 TEST=CONTROL ----------

TABLE OF RECAP BY TRIAL

RECAP(RECAPTURE CONDITION) TRIAL

Frequency Expected Cell Chi-Square	1	2	3	4	5	6	Total
ALIVE	39 39.13 0.0004	39 39.13 0.0004	30 29.348 0.0145	39 39.13 0.0004	40 39.13 0.0193	38 39.13 0.0327	225
DEAD	1 0.6957 0.1332	1 0.6957 0.1332	0 0.5217 0.5217	1 0.6957 0.1332	0 0.6957 0.6957	1 0.6957 0.1332	4
UNKNOWN	0 0.1739 0.1739	0 0.1739 0.1739	0 0.1304 0.1304	0 0.1739 0.1739	0 0.1739 0.1739	1 0.1739 3.9239	1
Total	40	40	30	40	40	40	230

Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3 & 4, October-November, 1995.

---------- RELEASE SITE=SPILBAY_4 TEST=CONTROL ----------

STATISTICS FOR TABLE OF RECAP BY TRIAL

Statistic	DF	Value	Prob
Chi-Square	10	6.568	0.766
Likelihood Ratio Chi-Square	10	6.469	0.774
Mantel-Haenszel Chi-Square	1	0.627	0.429
Phi Coefficient		0.169	
Contingency Coefficient		0.167	
Cramer's V		0.119	

Statistic	Value	ASE
Gamma	0.121	0.364
Kendall's Tau-b	0.023	0.069
Stuart's Tau-c	0.006	0.020
Somers' D C|R	0.100	0.302
Somers' D R|C	0.005	0.016
Pearson Correlation	0.052	0.075
Spearman Correlation	0.026	0.078
Lambda Asymmetric C|R	0.011	0.047
Lambda Asymmetric R|C	0.000	0.000
Lambda Symmetric	0.010	0.046
Uncertainty Coefficient C|R	0.008	0.005
Uncertainty Coefficient R|C	0.122	0.043
Uncertainty Coefficient Symmetric	0.015	0.008

Sample Size = 230
WARNING: 67% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3 & 4, October-November, 1995.

---------- RELEASE SITE=SPILBAY_4 TEST=TREATMENT ----------

TABLE OF RECAP BY TRIAL

RECAP(RECAPTURE CONDITION) TRIAL

Frequency Expected Cell Chi-Square	1	2	3	4	5	6	Total
ALIVE	39 38.967 283E-7	40 38.967 0.0274	29 29.225 0.0017	39 38.967 283E-7	39 38.967 283E-7	78 78.908 0.0104	264
DEAD	1 1.0332 0.0011	0 1.0332 1.0332	1 0.7749 0.0654	1 1.0332 0.0011	1 1.0332 0.0011	3 2.0923 0.3938	7
Total	40	40	30	40	40	81	271

Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3 & 4, October-November, 1995.

---------- RELEASE SITE=SPILBAY_4 TEST=TREATMENT ----------

STATISTICS FOR TABLE OF RECAP BY TRIAL

Statistic	DF	Value	Prob
Chi-Square	5	1.535	0.909
Likelihood Ratio Chi-Square	5	2.516	0.774
Mantel-Haenszel Chi-Square	1	0.602	0.438
Phi Coefficient		0.075	
Contingency Coefficient		0.075	
Cramer's V		0.075	

Statistic	Value	ASE
Gamma	0.215	0.274
Kendall's Tau-b	0.043	0.054
Stuart's Tau-c	0.017	0.022
Somers' D C|R	0.171	0.213
Somers' D R|C	0.011	0.014
Pearson Correlation	0.047	0.059
Spearman Correlation	0.048	0.060
Lambda Asymmetric C|R	0.000	0.000
Lambda Asymmetric R|C	0.000	0.000
Lambda Symmetric	0.000	0.000
Uncertainty Coefficient C|R	0.003	0.001
Uncertainty Coefficient R|C	0.039	0.016
Uncertainty Coefficient Symmetric	0.005	0.003

Sample Size = 271
WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

```
THE DALLES, BAY 6, OVERFLOW, INSTANTANEOUS

=====================================================
RESULTS FOR FULL MODEL (UNEQUAL LIVE/DEAD RECOVERY)
          estim. std.err.
S =       0.9619 (0.0187)   Control group survival
Pa =      1.0      N/A      Live recovery probability*
Pd =      1.0      N/A      Dead recovery probability*
Tau =     0.9802 (0.0253)   Spillgate survival
1-Tau =   0.0198 (0.0253)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -62.990317

Variance-Covariance matrix for estimated probabilities:
0.00035  -0.00036
-0.00036  0.00064

Profile likelihood intervals:
             Spillgate survival   Spillgate mortality
90 percent: (0.9403, 1.0000)     (0.0000, 0.0597)
95 percent: (0.9326, 1.0000)     (0.0000, 0.0674)
99 percent: (0.9171, 1.0000)     (0.0000, 0.0829)

=====================================================
RESULTS FOR REDUCED MODEL (EQUAL LIVE/DEAD RECOVERY)

          estim. std.err.
S =       0.9619 (0.0187)   Control group survival
Pa = Pd   1.0      N/A      Recovery probability*
Tau =     0.9802 (0.0253)   Spillgate survival
1-Tau =   0.0198 (0.0253)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -62.990317

Variance-Covariance matrix for estimated probabilities:
0.00035  -0.00036
-0.00036  0.00064

Profile likelihood intervals:
             Spillgate survival   Spillgate mortality
90 percent: (0.9403, 1.0000)     (0.0000, 0.0597)
95 percent: (0.9326, 1.0000)     (0.0000, 0.0674)
99 percent: (0.9171, 1.0000)     (0.0000, 0.0829)

=====================================================

Likelihood ratio statistic for equality of recovery probabilities:
       0.000000
Compare with quantiles of the chi-squared distribution with 1 d.f.:
  For significance level 0.10:  2.706
  For significance level 0.05:  3.841
  For significance level 0.01:  6.635
```

```
THE DALLES, BAY 6, OVERFLOW, 48 HRS

=====================================================
RESULTS FOR FULL MODEL (UNEQUAL LIVE/DEAD RECOVERY)
          estim. std.err.
S =       0.9619 (0.0187)   Control group survival
Pa =      1.0      N/A      Live recovery probability*
Pd =      1.0      N/A      Dead recovery probability*
Tau =     0.9802 (0.0253)   Spillgate survival
1-Tau =   0.0198 (0.0253)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -62.990317

Variance-Covariance matrix for estimated probabilities:
0.00035  -0.00036
-0.00036  0.00064

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9403, 1.0000)     (0.0000, 0.0597)
95 percent: (0.9326, 1.0000)     (0.0000, 0.0674)
99 percent: (0.9171, 1.0000)     (0.0000, 0.0829)

=====================================================
RESULTS FOR REDUCED MODEL (EQUAL LIVE/DEAD RECOVERY)

          estim. std.err.
S =       0.9619 (0.0187)   Control group survival
Pa = Pd   1.0      N/A      Recovery probability*
Tau =     0.9802 (0.0253)   Spillgate survival
1-Tau =   0.0198 (0.0253)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -62.990317

Variance-Covariance matrix for estimated probabilities:
0.00035  -0.00036
-0.00036  0.00064

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9403, 1.0000)     (0.0000, 0.0597)
95 percent: (0.9326, 1.0000)     (0.0000, 0.0674)
99 percent: (0.9171, 1.0000)     (0.0000, 0.0829)

=====================================================

Likelihood ratio statistic for equality of recovery probabilities:
      0.000000
Compare with quantiles of the chi-squared distribution with 1 d.f.:
  For significance level 0.10:  2.706
  For significance level 0.05:  3.841
  For significance level 0.01:  6.635
```

```
THE DALLES, BAY 4, I-SLOT, INSTANTANEOUS

=====================================================
RESULTS FOR FULL MODEL (UNEQUAL LIVE/DEAD RECOVERY)
          estim. std.err.
S =       0.9783 (0.0096)   Control group survival
Pa =      1.0     N/A       Live recovery probability*
Pd =      1.0     N/A       Dead recovery probability*
Tau =     0.9958 (0.0139)   Spillgate survival
1-Tau =   0.0042 (0.0139)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -56.590727

Variance-Covariance matrix for estimated probabilities:
0.00009  -0.00009
-0.00009  0.00019

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9723, 1.0000)     (0.0000, 0.0277)
95 percent: (0.9675, 1.0000)     (0.0000, 0.0325)
99 percent: (0.9574, 1.0000)     (0.0000, 0.0426)

=====================================================
RESULTS FOR REDUCED MODEL (EQUAL LIVE/DEAD RECOVERY)

          estim. std.err.
S =       0.9783 (0.0096)   Control group survival
Pa = Pd   1.0     N/A       Recovery probability*
Tau =     0.9958 (0.0139)   Spillgate survival
1-Tau =   0.0042 (0.0139)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -56.590727

Variance-Covariance matrix for estimated probabilities:
0.00009  -0.00009
-0.00009  0.00019

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9723, 1.0000)     (0.0000, 0.0277)
95 percent: (0.9675, 1.0000)     (0.0000, 0.0325)
99 percent: (0.9574, 1.0000)     (0.0000, 0.0426)

=====================================================

Likelihood ratio statistic for equality of recovery probabilities:
       0.000000
Compare with quantiles of the chi-squared distribution with 1 d.f.:
  For significance level 0.10:  2.706
  For significance level 0.05:  3.841
  For significance level 0.01:  6.635
```

```
THE DALLES, BAY 4, I-SLOT, 48 HRS

=====================================================
RESULTS FOR FULL MODEL (UNEQUAL LIVE/DEAD RECOVERY)
          estim. std.err.
S =       0.9783 (0.0096)   Control group survival
Pa =      1.0     N/A       Live recovery probability*
Pd =      1.0     N/A       Dead recovery probability*
Tau =     0.9958 (0.0139)   Spillgate survival
1-Tau =   0.0042 (0.0139)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -56.590727

Variance-Covariance matrix for estimated probabilities:
0.00009  -0.00009
-0.00009  0.00019

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9723, 1.0000)     (0.0000, 0.0277)
95 percent: (0.9675, 1.0000)     (0.0000, 0.0325)
99 percent: (0.9574, 1.0000)     (0.0000, 0.0426)

=====================================================
RESULTS FOR REDUCED MODEL (EQUAL LIVE/DEAD RECOVERY)

          estim. std.err.
S =       0.9783 (0.0096)   Control group survival
Pa = Pd   1.0     N/A       Recovery probability*
Tau =     0.9958 (0.0139)   Spillgate survival
1-Tau =   0.0042 (0.0139)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -56.590727

Variance-Covariance matrix for estimated probabilities:
0.00009  -0.00009
-0.00009  0.00019

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9723, 1.0000)     (0.0000, 0.0277)
95 percent: (0.9675, 1.0000)     (0.0000, 0.0325)
99 percent: (0.9574, 1.0000)     (0.0000, 0.0426)

=====================================================

Likelihood ratio statistic for equality of recovery probabilities:
       0.000000
Compare with quantiles of the chi-squared distribution with 1 d.f.:
  For significance level 0.10:  2.706
  For significance level 0.05:  3.841
  For significance level 0.01:  6.635
```

```
THE DALLES, BAY 3, UNMODIFIED, INSTANTANEOUS

=====================================================
RESULTS FOR FULL MODEL (UNEQUAL LIVE/DEAD RECOVERY)
          estim. std.err.
S =       0.9739 (0.0105)   Control group survival
Pa =      1.0     N/A       Live recovery probability*
Pd =      1.0     N/A       Dead recovery probability*
Tau =     0.9621 (0.0184)   Spillgate survival
1-Tau =   0.0379 (0.0184)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -91.260730

Variance-Covariance matrix for estimated probabilities:
0.00011  -0.00011
-0.00011  0.00034

Profile likelihood intervals:
             Spillgate survival   Spillgate mortality
90 percent: (0.9307, 0.9928)     (0.0072, 0.0693)
95 percent: (0.9242, 0.9990)     (0.0010, 0.0758)
99 percent: (0.9112, 1.0000)     (0.0000, 0.0888)

=====================================================
RESULTS FOR REDUCED MODEL (EQUAL LIVE/DEAD RECOVERY)

          estim. std.err.
S =       0.9739 (0.0105)   Control group survival
Pa = Pd   1.0     N/A       Recovery probability*
Tau =     0.9621 (0.0184)   Spillgate survival
1-Tau =   0.0379 (0.0184)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -91.260730

Variance-Covariance matrix for estimated probabilities:
0.00011  -0.00011
-0.00011  0.00034

Profile likelihood intervals:
             Spillgate survival   Spillgate mortality
90 percent: (0.9307, 0.9928)     (0.0072, 0.0693)
95 percent: (0.9242, 0.9990)     (0.0010, 0.0758)
99 percent: (0.9112, 1.0000)     (0.0000, 0.0888)

=====================================================

Likelihood ratio statistic for equality of recovery probabilities:
       0.000000
Compare with quantiles of the chi-squared distribution with 1 d.f.:
  For significance level 0.10:  2.706
  For significance level 0.05:  3.841
  For significance level 0.01:  6.635
```

```
THE DALLES, BAY 3, UNMODIFIED, 48 HRS

=====================================================
RESULTS FOR FULL MODEL (UNEQUAL LIVE/DEAD RECOVERY)
          estim. std.err.
S =       0.9739 (0.0105)   Control group survival
Pa =      1.0      N/A      Live recovery probability*
Pd =      1.0      N/A      Dead recovery probability*
Tau =     0.9621 (0.0184)   Spillgate survival
1-Tau =   0.0379 (0.0184)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

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Variance-Covariance matrix for estimated probabilities:
0.00011  -0.00011
-0.00011  0.00034

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9307, 0.9928)     (0.0072, 0.0693)
95 percent: (0.9242, 0.9990)     (0.0010, 0.0758)
99 percent: (0.9112, 1.0000)     (0.0000, 0.0888)

=====================================================
RESULTS FOR REDUCED MODEL (EQUAL LIVE/DEAD RECOVERY)

          estim. std.err.
S =       0.9739 (0.0105)   Control group survival
Pa = Pd   1.0      N/A      Recovery probability*
Tau =     0.9621 (0.0184)   Spillgate survival
1-Tau =   0.0379 (0.0184)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -91.260730

Variance-Covariance matrix for estimated probabilities:
0.00011  -0.00011
-0.00011  0.00034

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9307, 0.9928)     (0.0072, 0.0693)
95 percent: (0.9242, 0.9990)     (0.0010, 0.0758)
99 percent: (0.9112, 1.0000)     (0.0000, 0.0888)

=====================================================

Likelihood ratio statistic for equality of recovery probabilities:
       0.000000
Compare with quantiles of the chi-squared distribution with 1 d.f.:
  For significance level 0.10:  2.706
  For significance level 0.05:  3.841
  For significance level 0.01:  6.635
```

Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3, 4 & 6, October-November, 1995.

---------- RELEASE SITE=SPILBAY_6 TEST=CONTROL ----------

TABLE OF RECAP BY TRIAL

RECAP(RECAPTURE CONDITION) TRIAL

Frequency Expected Cell Chi-Square	1	2	3	Total
ALIVE	34 33.667 0.0033	38 38.476 0.0059	29 28.857 0.0007	101
DEAD	1 1.3333 0.0833	2 1.5238 0.1488	1 1.1429 0.0179	4
Total	35	40	30	105

STATISTICS FOR TABLE OF RECAP BY TRIAL

Statistic	DF	Value	Prob
Chi-Square	2	0.260	0.878
Likelihood Ratio Chi-Square	2	0.255	0.880
Mantel-Haenszel Chi-Square	1	0.015	0.902
Fisher's Exact Test (2-Tail)			1.000
Phi Coefficient		0.050	
Contingency Coefficient		0.050	
Cramer's V		0.050	

Sample Size = 105
WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3, 4 & 6, October-November, 1995.

---------- RELEASE SITE=SPILBAY_6 TEST=TREATMENT ----------

TABLE OF RECAP BY TRIAL

RECAP(RECAPTURE CONDITION) TRIAL

Frequency Expected Cell Chi-Square	1	2	3	Total
ALIVE	62 66 0.2424	79 75.429 0.1691	57 56.571 0.0032	198
DEAD	7 3.3333 4.0333	1 3.8095 2.072	2 2.8571 0.2571	10
UNKNOWN	1 0.6667 0.1667	0 0.7619 0.7619	1 0.5714 0.3214	2
Total	70	80	60	210

STATISTICS FOR TABLE OF RECAP BY TRIAL

Statistic	DF	Value	Prob
Chi-Square	4	8.027	0.091
Likelihood Ratio Chi-Square	4	8.633	0.071
Mantel-Haenszel Chi-Square	1	1.775	0.183
Fisher's Exact Test (2-Tail)			4.98E-02
Phi Coefficient		0.196	
Contingency Coefficient		0.192	
Cramer's V		0.138	

Sample Size = 210
WARNING: 67% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3 & 4, October-November, 1995.

---------- RELEASE SITE=SPILBAY_3 TEST=CONTROL ----------

TABLE OF RECAP BY TRIAL

RECAP(RECAPTURE CONDITION) TRIAL

Frequency Expected Cell Chi-Square	1	2	3	4	5	7	8	Total
ALIVE	39 38.957 485E-7	39 38.957 485E-7	30 29.217 0.021	39 38.957 485E-7	40 38.957 0.028	18 19.478 0.1122	19 19.478 0.0117	224
DEAD	1 0.6957 0.1332	1 0.6957 0.1332	0 0.5217 0.5217	1 0.6957 0.1332	0 0.6957 0.6957	1 0.3478 1.2228	0 0.3478 0.3478	4
UNKNOWN	0 0.3478 0.3478	0 0.3478 0.3478	0 0.2609 0.2609	0 0.3478 0.3478	0 0.3478 0.3478	1 0.1739 3.9239	1 0.1739 3.9239	2
Total	40	40	30	40	40	20	20	230

Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3 & 4, October-November, 1995.

---------- RELEASE SITE=SPILBAY_3 TEST=CONTROL ----------

STATISTICS FOR TABLE OF RECAP BY TRIAL

Statistic	DF	Value	Prob
Chi-Square	12	12.860	0.379
Likelihood Ratio Chi-Square	12	11.462	0.490
Mantel-Haenszel Chi-Square	1	2.461	0.117
Phi Coefficient		0.236	
Contingency Coefficient		0.230	
Cramer's V		0.167	

Statistic	Value	ASE
Gamma	0.243	0.306
Kendall's Tau-b	0.052	0.067
Stuart's Tau-c	0.016	0.022
Somers' D C|R	0.212	0.271
Somers' D R|C	0.013	0.017
Pearson Correlation	0.104	0.073
Spearman Correlation	0.060	0.077
Lambda Asymmetric C|R	0.011	0.047
Lambda Asymmetric R|C	0.000	0.000
Lambda Symmetric	0.010	0.045
Uncertainty Coefficient C|R	0.013	0.006
Uncertainty Coefficient R|C	0.181	0.048
Uncertainty Coefficient Symmetric	0.024	0.011

Sample Size = 230
WARNING: 67% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3 & 4, October-November, 1995.

---------- RELEASE SITE=SPILBAY_3 TEST=TREATMENT ----------

TABLE OF RECAP BY TRIAL

RECAP(RECAPTURE CONDITION) TRIAL

Frequency Expected Cell Chi-Square	1	2	3	4	5	7	8	Total
ALIVE	39 37.481 0.0615	38 37.481 0.0072	25 28.111 0.3443	39 37.481 0.0615	38 37.481 0.0072	36 37.481 0.0586	38 37.481 0.0072	253
DEAD	1 2.5185 0.9156	2 2.5185 0.1068	5 1.8889 5.1242	1 2.5185 0.9156	2 2.5185 0.1068	4 2.5185 0.8715	2 2.5185 0.1068	17
Total	40	40	30	40	40	40	40	270

Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3 & 4, October-November, 1995.

---------- RELEASE SITE=SPILBAY_3 TEST=TREATMENT ----------

STATISTICS FOR TABLE OF RECAP BY TRIAL

Statistic	DF	Value	Prob
Chi-Square	6	8.694	0.192
Likelihood Ratio Chi-Square	6	7.534	0.274
Mantel-Haenszel Chi-Square	1	0.173	0.678
Phi Coefficient		0.179	
Contingency Coefficient		0.177	
Cramer's V		0.179	

Statistic	Value	ASE
Gamma	0.070	0.151
Kendall's Tau-b	0.022	0.049
Stuart's Tau-c	0.014	0.031
Somers' D C|R	0.060	0.131
Somers' D R|C	0.008	0.018
Pearson Correlation	0.025	0.055
Spearman Correlation	0.026	0.056
Lambda Asymmetric C|R	0.017	0.011
Lambda Asymmetric R|C	0.000	0.000
Lambda Symmetric	0.016	0.010
Uncertainty Coefficient C|R	0.007	0.005
Uncertainty Coefficient R|C	0.059	0.043
Uncertainty Coefficient Symmetric	0.013	0.010

Sample Size = 270
WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3 & 4, October-November, 1995.

---------- *RELEASE SITE=SPILBAY_4 TEST=CONTROL* ----------

TABLE OF RECAP BY TRIAL

RECAP(RECAPTURE CONDITION) TRIAL

Frequency Expected Cell Chi-Square	1	2	3	4	5	6	Total
ALIVE	39 39.13 0.0004	39 39.13 0.0004	30 29.348 0.0145	39 39.13 0.0004	40 39.13 0.0193	38 39.13 0.0327	225
DEAD	1 0.6957 0.1332	1 0.6957 0.1332	0 0.5217 0.5217	1 0.6957 0.1332	0 0.6957 0.6957	1 0.6957 0.1332	4
UNKNOWN	0 0.1739 0.1739	0 0.1739 0.1739	0 0.1304 0.1304	0 0.1739 0.1739	0 0.1739 0.1739	1 0.1739 3.9239	1
Total	40	40	30	40	40	40	230

Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3 & 4, October-November, 1995.

---------- RELEASE SITE=SPILBAY_4 TEST=CONTROL ----------

STATISTICS FOR TABLE OF RECAP BY TRIAL

Statistic	DF	Value	Prob
Chi-Square	10	6.568	0.766
Likelihood Ratio Chi-Square	10	6.469	0.774
Mantel-Haenszel Chi-Square	1	0.627	0.429
Phi Coefficient		0.169	
Contingency Coefficient		0.167	
Cramer's V		0.119	

Statistic	Value	ASE
Gamma	0.121	0.364
Kendall's Tau-b	0.023	0.069
Stuart's Tau-c	0.006	0.020
Somers' D C|R	0.100	0.302
Somers' D R|C	0.005	0.016
Pearson Correlation	0.052	0.075
Spearman Correlation	0.026	0.078
Lambda Asymmetric C|R	0.011	0.047
Lambda Asymmetric R|C	0.000	0.000
Lambda Symmetric	0.010	0.046
Uncertainty Coefficient C|R	0.008	0.005
Uncertainty Coefficient R|C	0.122	0.043
Uncertainty Coefficient Symmetric	0.015	0.008

Sample Size = 230
WARNING: 67% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3 & 4, October-November, 1995.

---------- RELEASE SITE=SPILBAY_4 TEST=TREATMENT ----------

TABLE OF RECAP BY TRIAL

RECAP(RECAPTURE CONDITION) TRIAL

Frequency Expected Cell Chi-Square	1	2	3	4	5	6	Total
ALIVE	39 38.967 283E-7	40 38.967 0.0274	29 29.225 0.0017	39 38.967 283E-7	39 38.967 283E-7	78 78.908 0.0104	264
DEAD	1 1.0332 0.0011	0 1.0332 1.0332	1 0.7749 0.0654	1 1.0332 0.0011	1 1.0332 0.0011	3 2.0923 0.3938	7
Total	40	40	30	40	40	81	271

Appendix Table . Chi-square test for homogeneity between trials of the long term turbine survival using the Hi-Z Turb'n Tag at the Dalles Dam Spillbays 3 & 4, October-November, 1995.

---------- RELEASE SITE=SPILBAY_4 TEST=TREATMENT ----------

STATISTICS FOR TABLE OF RECAP BY TRIAL

Statistic	DF	Value	Prob
Chi-Square	5	1.535	0.909
Likelihood Ratio Chi-Square	5	2.516	0.774
Mantel-Haenszel Chi-Square	1	0.602	0.438
Phi Coefficient		0.075	
Contingency Coefficient		0.075	
Cramer's V		0.075	

Statistic	Value	ASE
Gamma	0.215	0.274
Kendall's Tau-b	0.043	0.054
Stuart's Tau-c	0.017	0.022
Somers' D C|R	0.171	0.213
Somers' D R|C	0.011	0.014
Pearson Correlation	0.047	0.059
Spearman Correlation	0.048	0.060
Lambda Asymmetric C|R	0.000	0.000
Lambda Asymmetric R|C	0.000	0.000
Lambda Symmetric	0.000	0.000
Uncertainty Coefficient C|R	0.003	0.001
Uncertainty Coefficient R|C	0.039	0.016
Uncertainty Coefficient Symmetric	0.005	0.003

Sample Size = 271
WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

```
THE DALLES, BAY 6, OVERFLOW, INSTANTANEOUS

====================================================
RESULTS FOR FULL MODEL (UNEQUAL LIVE/DEAD RECOVERY)
          estim. std.err.
S =       0.9619 (0.0187)   Control group survival
Pa =      1.0      N/A      Live recovery probability*
Pd =      1.0      N/A      Dead recovery probability*
Tau =     0.9802 (0.0253)   Spillgate survival
1-Tau =   0.0198 (0.0253)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -62.990317

Variance-Covariance matrix for estimated probabilities:
0.00035  -0.00036
-0.00036  0.00064

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9403, 1.0000)     (0.0000, 0.0597)
95 percent: (0.9326, 1.0000)     (0.0000, 0.0674)
99 percent: (0.9171, 1.0000)     (0.0000, 0.0829)

====================================================
RESULTS FOR REDUCED MODEL (EQUAL LIVE/DEAD RECOVERY)

          estim. std.err.
S =       0.9619 (0.0187)   Control group survival
Pa = Pd   1.0      N/A      Recovery probability*
Tau =     0.9802 (0.0253)   Spillgate survival
1-Tau =   0.0198 (0.0253)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -62.990317

Variance-Covariance matrix for estimated probabilities:
0.00035  -0.00036
-0.00036  0.00064

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9403, 1.0000)     (0.0000, 0.0597)
95 percent: (0.9326, 1.0000)     (0.0000, 0.0674)
99 percent: (0.9171, 1.0000)     (0.0000, 0.0829)

====================================================

Likelihood ratio statistic for equality of recovery probabilities:
       0.000000
Compare with quantiles of the chi-squared distribution with 1 d.f.:
  For significance level 0.10:  2.706
  For significance level 0.05:  3.841
  For significance level 0.01:  6.635
```

THE DALLES, BAY 6, OVERFLOW, 48 HRS

```
=====================================================
RESULTS FOR FULL MODEL (UNEQUAL LIVE/DEAD RECOVERY)
          estim. std.err.
S =       0.9619 (0.0187)   Control group survival
Pa =      1.0     N/A       Live recovery probability*
Pd =      1.0     N/A       Dead recovery probability*
Tau =     0.9802 (0.0253)   Spillgate survival
1-Tau =   0.0198 (0.0253)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -62.990317

Variance-Covariance matrix for estimated probabilities:
0.00035  -0.00036
-0.00036  0.00064

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9403, 1.0000)     (0.0000, 0.0597)
95 percent: (0.9326, 1.0000)     (0.0000, 0.0674)
99 percent: (0.9171, 1.0000)     (0.0000, 0.0829)

=====================================================
RESULTS FOR REDUCED MODEL (EQUAL LIVE/DEAD RECOVERY)

          estim. std.err.
S =       0.9619 (0.0187)   Control group survival
Pa = Pd   1.0     N/A       Recovery probability*
Tau =     0.9802 (0.0253)   Spillgate survival
1-Tau =   0.0198 (0.0253)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -62.990317

Variance-Covariance matrix for estimated probabilities:
0.00035  -0.00036
-0.00036  0.00064

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9403, 1.0000)     (0.0000, 0.0597)
95 percent: (0.9326, 1.0000)     (0.0000, 0.0674)
99 percent: (0.9171, 1.0000)     (0.0000, 0.0829)

=====================================================

Likelihood ratio statistic for equality of recovery probabilities:
       0.000000
Compare with quantiles of the chi-squared distribution with 1 d.f.:
  For significance level 0.10:  2.706
  For significance level 0.05:  3.841
  For significance level 0.01:  6.635
```

```
THE DALLES, BAY 4, I-SLOT, INSTANTANEOUS

=====================================================
RESULTS FOR FULL MODEL (UNEQUAL LIVE/DEAD RECOVERY)
          estim. std.err.
S =       0.9783 (0.0096)   Control group survival
Pa =      1.0     N/A       Live recovery probability*
Pd =      1.0     N/A       Dead recovery probability*
Tau =     0.9958 (0.0139)   Spillgate survival
1-Tau =   0.0042 (0.0139)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -56.590727

Variance-Covariance matrix for estimated probabilities:
0.00009  -0.00009
-0.00009  0.00019

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9723, 1.0000)     (0.0000, 0.0277)
95 percent: (0.9675, 1.0000)     (0.0000, 0.0325)
99 percent: (0.9574, 1.0000)     (0.0000, 0.0426)

=====================================================
RESULTS FOR REDUCED MODEL (EQUAL LIVE/DEAD RECOVERY)

          estim. std.err.
S =       0.9783 (0.0096)   Control group survival
Pa = Pd   1.0     N/A       Recovery probability*
Tau =     0.9958 (0.0139)   Spillgate survival
1-Tau =   0.0042 (0.0139)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -56.590727

Variance-Covariance matrix for estimated probabilities:
0.00009  -0.00009
-0.00009  0.00019

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9723, 1.0000)     (0.0000, 0.0277)
95 percent: (0.9675, 1.0000)     (0.0000, 0.0325)
99 percent: (0.9574, 1.0000)     (0.0000, 0.0426)

=====================================================

Likelihood ratio statistic for equality of recovery probabilities:
       0.000000
Compare with quantiles of the chi-squared distribution with 1 d.f.:
  For significance level 0.10:  2.706
  For significance level 0.05:  3.841
  For significance level 0.01:  6.635
```

```
THE DALLES, BAY 4, I-SLOT, 48 HRS

=====================================================
RESULTS FOR FULL MODEL (UNEQUAL LIVE/DEAD RECOVERY)
          estim. std.err.
S =       0.9783 (0.0096)   Control group survival
Pa =      1.0     N/A       Live recovery probability*
Pd =      1.0     N/A       Dead recovery probability*
Tau =     0.9958 (0.0139)   Spillgate survival
1-Tau =   0.0042 (0.0139)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -56.590727

Variance-Covariance matrix for estimated probabilities:
0.00009  -0.00009
-0.00009  0.00019

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9723, 1.0000)     (0.0000, 0.0277)
95 percent: (0.9675, 1.0000)     (0.0000, 0.0325)
99 percent: (0.9574, 1.0000)     (0.0000, 0.0426)

=====================================================
RESULTS FOR REDUCED MODEL (EQUAL LIVE/DEAD RECOVERY)

          estim. std.err.
S =       0.9783 (0.0096)   Control group survival
Pa = Pd   1.0     N/A       Recovery probability*
Tau =     0.9958 (0.0139)   Spillgate survival
1-Tau =   0.0042 (0.0139)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -56.590727

Variance-Covariance matrix for estimated probabilities:
0.00009  -0.00009
-0.00009  0.00019

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9723, 1.0000)     (0.0000, 0.0277)
95 percent: (0.9675, 1.0000)     (0.0000, 0.0325)
99 percent: (0.9574, 1.0000)     (0.0000, 0.0426)

=====================================================

Likelihood ratio statistic for equality of recovery probabilities:
       0.000000
Compare with quantiles of the chi-squared distribution with 1 d.f.:
  For significance level 0.10:  2.706
  For significance level 0.05:  3.841
  For significance level 0.01:  6.635
```

```
THE DALLES, BAY 3, UNMODIFIED, INSTANTANEOUS

====================================================
RESULTS FOR FULL MODEL (UNEQUAL LIVE/DEAD RECOVERY)
          estim. std.err.
S =       0.9739 (0.0105)   Control group survival
Pa =      1.0     N/A       Live recovery probability*
Pd =      1.0     N/A       Dead recovery probability*
Tau =     0.9621 (0.0184)   Spillgate survival
1-Tau =   0.0379 (0.0184)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -91.260730

Variance-Covariance matrix for estimated probabilities:
0.00011  -0.00011
-0.00011  0.00034

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9307, 0.9928)     (0.0072, 0.0693)
95 percent: (0.9242, 0.9990)     (0.0010, 0.0758)
99 percent: (0.9112, 1.0000)     (0.0000, 0.0888)

====================================================
RESULTS FOR REDUCED MODEL (EQUAL LIVE/DEAD RECOVERY)

          estim. std.err.
S =       0.9739 (0.0105)   Control group survival
Pa = Pd   1.0     N/A       Recovery probability*
Tau =     0.9621 (0.0184)   Spillgate survival
1-Tau =   0.0379 (0.0184)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -91.260730

Variance-Covariance matrix for estimated probabilities:
0.00011  -0.00011
-0.00011  0.00034

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9307, 0.9928)     (0.0072, 0.0693)
95 percent: (0.9242, 0.9990)     (0.0010, 0.0758)
99 percent: (0.9112, 1.0000)     (0.0000, 0.0888)

====================================================

Likelihood ratio statistic for equality of recovery probabilities:
       0.000000
Compare with quantiles of the chi-squared distribution with 1 d.f.:
  For significance level 0.10:  2.706
  For significance level 0.05:  3.841
  For significance level 0.01:  6.635
```

```
THE DALLES, BAY 3, UNMODIFIED, 48 HRS

==================================================
RESULTS FOR FULL MODEL (UNEQUAL LIVE/DEAD RECOVERY)
          estim. std.err.
S =       0.9739 (0.0105)   Control group survival
Pa =      1.0      N/A      Live recovery probability*
Pd =      1.0      N/A      Dead recovery probability*
Tau =     0.9621 (0.0184)   Spillgate survival
1-Tau =   0.0379 (0.0184)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -91.260730

Variance-Covariance matrix for estimated probabilities:
0.00011  -0.00011
-0.00011  0.00034

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9307, 0.9928)     (0.0072, 0.0693)
95 percent: (0.9242, 0.9990)     (0.0010, 0.0758)
99 percent: (0.9112, 1.0000)     (0.0000, 0.0888)

==================================================
RESULTS FOR REDUCED MODEL (EQUAL LIVE/DEAD RECOVERY)

          estim. std.err.
S =       0.9739 (0.0105)   Control group survival
Pa = Pd   1.0      N/A      Recovery probability*
Tau =     0.9621 (0.0184)   Spillgate survival
1-Tau =   0.0379 (0.0184)   Spillgate mortality

* --  Because of contraints in the data set, this probability is assumed
      equal to 1.0; not estimated.

 log-likelihood : -91.260730

Variance-Covariance matrix for estimated probabilities:
0.00011  -0.00011
-0.00011  0.00034

Profile likelihood intervals:
            Spillgate survival   Spillgate mortality
90 percent: (0.9307, 0.9928)     (0.0072, 0.0693)
95 percent: (0.9242, 0.9990)     (0.0010, 0.0758)
99 percent: (0.9112, 1.0000)     (0.0000, 0.0888)

==================================================

Likelihood ratio statistic for equality of recovery probabilities:
       0.000000
Compare with quantiles of the chi-squared distribution with 1 d.f.:
  For significance level 0.10:  2.706
  For significance level 0.05:  3.841
  For significance level 0.01:  6.635
```