

COMPARISONS OF AVAILABILITY OF DEAD TAGS.
 WILLIAMS CREEK-1953, 1954

COUNT OF LIVE FISH

(I) (II) (A) COUNT (B)

	No. Tags available	No untagged fish	I/II	No tags seen	No fish seen	i/ii	(A)/(B)	COMMENTS
1952 River tags applied to river Dead on sp-grds.	67	2681	.0249	5	168	.0298	0.83 1.40	SAMPLE NO'S SO SMALL, UNLIKELY THERE IS ANY SIGNIF. DIFF
Dead on Fence				21	931	.0225	1.11	No Diff.
	67	2681	.0249	26	1099	.0237	1.05	
1953 River tags Dead sp-grds.	197	7812	.0252	10	678	.0148	1.70 1.78	Possible diff.
Dead sp-grd.				(8)	265	.030	0.84	No Diff
Pwrw. Dead sp-grd.	52	7812	.0067	(3)	265	.011	0.61	No diff
Dead fence				1	721	.0014	4.78	Lower
Shwxw Dead sp-grd	120	7812	.0153	(4)	265	.0151	1.01	No Diff
Dead fence				10	721	.0141	1.08	Diff
Bwxw Dead sp-grd	127	7812	.0162	(3)	265	.011	1.47	No diff
Dead fence				16	721	.0222	0.73	No diff.
TOTAL, 1953	496	7812	.0635	55	986	.0556	1.14	
Fiducial Limits.				41 74		.0415 .0750		No diff.
1954 River tags Dead sp-grd.	195	6390	.0305	(3)	102	.029	1.05	No diff.
Dead fence				33	1149	.0288	1.05	No diff.
Pwrw Dead sp-grd	143	6390	.0224	(2)	102	.0196	1.14	No diff.
Dead fence				8	1149	.0070	3.20	Diff
Shwxw Dead sp-grd.	135	6390	.0212	(2)	102	.0196	1.08	No diff.
Dead Fence				20	1149	.0174	1.22	No diff.
Total 1954	473	6390	.0743	68	1251	.0542	1.37	Diff.
Fiducial Limits				57 88		.0358 .0700		
TOTAL	1036	16,883	.0615	149	3336	.0452	1.36	

Calculation of Poisson Limits (95%) for dead tags
Williams Creek - 1953

1953

At fence

t = tagged
T = total run

$$\frac{t}{T} = \frac{444}{7812} = 0.057$$

$$t_L = \frac{444}{2} \pm 1.96 \sqrt{445}$$

$$\begin{array}{r} 442 \\ 41.4 \\ \hline 483.4 \\ 400.6 \end{array} \quad 1.96 \times 21.1 = 41.4$$

$$t_{UL} = 483$$

$$t_{LL} = 401$$

$$\frac{t_{UL}}{T} = \frac{483}{7812} = 0.062$$

$$\frac{t_{LL}}{T} = \frac{401}{7812} = 0.051$$

Dead on grounds.

$$\frac{t}{T} = \frac{51}{986} = 0.052$$

$$t_{UL} = 38$$

$$t_{LL} = 67$$

$$\frac{t_{UL}}{T} = 0.067$$

$$\frac{t_{LL}}{T} = 0.039$$

1954

At fence

$$\frac{t}{T} = \frac{330}{6390} = 0.052$$

$$t_L = \frac{330}{2} \pm 1.96 \sqrt{331}$$

$$\begin{array}{r} 328 \\ 35.7 \\ \hline 292.3 \\ 363.7 \end{array} \quad 1.96 \times 18.2 = 35.7$$

$$t_{UL} = 364$$

$$t_{LL} = 292$$

$$\frac{t_{UL}}{T} = \frac{364}{6390} = 0.057$$

$$\frac{t_{LL}}{T} = \frac{292}{6390} = 0.046$$

$$\frac{t}{T} = \frac{58}{1251} = 0.046$$

$$t_L = \frac{58}{2} \pm 1.96 \sqrt{59} = 1.96 \pm 15.6$$

$$\begin{array}{r} 56 \\ 15.1 \\ \hline 40.9 \\ 71.1 \end{array}$$

$$t_{LL} = 41$$

$$t_{UL} = 71$$

$$\frac{t_{LL}}{T} = \frac{41}{1251} = 0.033 \quad \frac{t_{UL}}{T} = \frac{71}{1251} = 0.0567$$

