

section A.

LAKESIDE RIVER 1955.

Traj. ①	Herman creek	50 yd.	@ 31	=	1,550
②	Bar	100 yd	dstr bar	31-28 = 29.5	= 2,950
③	100 yd	-200 yd		28-25 = 26.5	= 2,650
④	200 yd	-250 yd.		25-35 = 30	= 1,500
⑤	250 - 350 yd.			30-35 = 32.5	= 3,250
⑥	350 - 375 yd.			10-12.5 = 11.2	= 280
⑦	375 - 450			32-40 = 36	= 3,700
⑧	450 - 595			38-75 = 56.5	= 8,193
	595 - 600				1,500
					<hr/>
					24,573

Section B.

37 surveys from 100 yds - 730 yds Total = 1309
 add 6 surveys for from fence → 100 yds. 351
~~at~~ 75 - 42 \bar{x} = 1660

$$\text{avg} = \frac{1660}{43} = 39$$

section C.

Pool bet. Coldwater. 100 yd x 20 = 2,000

ripple. ~~150~~ x 17 = 2,550

hem. $\frac{225}{43} = 5.32 \times 3 = 1,596$

~~6,776~~

6,146

$\bar{x} = 11$

$$880 \times 2 = 1760$$

br. - 100	100	4-15 = 9.5	950	
100 - 250	150	4-24 = 14	2100	7,44
250 - 350	150	13-24 = 18.5	1950	
300 - 450	150	av. 7 =	1050	
rem = $\frac{713}{363}$	363		4975	

1900
~~2200~~ yd. appr. 10 = ~~22,000~~
 (300 yd. barren) 19,000

~~1100~~ yd. 2640 yd. appr. 10 26,400.

2200 yd. appr. 7 15,400.

1,750

900.

199
52
67
128
276

10
69

3.5
2.8
83

1.5
2.2
172

1.60
52
16
128

3
34
102
120

126
30
25
81

• Appr. even intervals.

Yds bel. Item	Dist.	Fish.	\bar{x}	Total.
0 - 100	100	28 - 31 =	29.5	2,950
100 - 200	100	28 - 25 =	26.5	2,650
200 - 250	50	25 - 35 =	30	1,500
250 - 300	50	30 - 33 =	33	1,650
300 - 450	150	36 - 40 =	38	5,700
450 - 600	150	60 - 75 =		10,125
				<hr/> 24,575.

Yds = 880 Av. density = 35.4

Est. = 31,152.

~~Port~~ ~~pool~~ ~~bel.~~ ~~Coldwater.~~

200 yd			
pool bel. cold	100 yd	20	= 2,000
riff.	300 yd.	17	= 5,100
barren	150 yd	3	= 450
To bridge	880		<hr/> 7,550

10

$$1 \frac{1}{2} \quad 3 \frac{1}{4} \quad 1 \frac{1}{4} \quad "$$

$$\frac{1}{4} + \frac{3}{8} = \frac{3}{6}$$

$$\begin{array}{r} 880 \\ 330 \\ \hline 1210 \end{array}$$

$$\frac{1}{8} \quad \frac{1}{2} \quad \frac{1}{2} \quad |$$

$$1 \ 4 \ 4 \ 2$$

$$1 \ \frac{11}{8} \ 2 \ \frac{1}{2}$$

$$8 \ 3 \ 2$$

$$12$$

$$\begin{array}{r} 105 \\ 175 \\ \hline 280 \end{array}$$

$$\begin{array}{r} 3.5 \\ 107.5 \\ .5 \\ .75 \\ .75 \\ .3 \\ .7 \\ .5 \\ 1.3 \\ 1.0 \end{array}$$

$$\begin{array}{r} 12.4 \\ \hline 11.05 \end{array}$$

EA	① fish/ln.vd.	② ln yd.	①x② uncorr. est.
	41	600	24,600
	35.5	900	31,950
	13.7	550	7,535
	2	900	1,800
	15.0	450	5,000
	10.65	1900	19,000
	40	2640	26,400
		<u>4540</u>	39,000
	7	2200	15,400
			1,750
			900
	6.0	2200	18,600
		900	-1800 barren
		<u>3100</u>	
	10	1200	12,000
		10.50	
		1300 barren	
	10	700	7,000

6.5

-1800 barren

10.50
barren
1300
barren
700

correction factor for visibility

$$\frac{\text{Est. based on tags}}{\text{Est. based on visual}}$$

$$\text{Total dead} = 17,628$$

$$\begin{aligned}\text{Total tags} &= 181 + \text{min } 10 \text{ fish with} \\ &\quad \text{tags lost} \\ &= 191\end{aligned}$$

$$\begin{aligned}\text{Tags available} &= 500 - \text{live tags distr.} \\ &= 500 - 62 \\ &= \del{538} \quad 438\end{aligned}$$

To tag est must add live fish distr. after ~~Oct 2nd~~ Sept 28 = 3686.

$$\begin{aligned}\therefore \text{Est} &= \frac{438 \times 17,628}{191} = 40,424 \\ &\quad + 3,686 \\ &\quad \hline &44,110\end{aligned}$$

25736

$$\approx 44,000$$

$$\begin{aligned}\therefore \text{ratio} &= \frac{44,110}{24,510} = \del{1.8} \\ &24,510\end{aligned}$$

3/10 2/8 2/10 4/8 20/8 2 1/4

F - similar in density to E. 2 1/4"
2 barren spots 100 yds.

G -

H - Similar to spawning @ Lark riv bridge.

J - canyon of fish

K - 1/2 area utilized; similar to mid-section
below bridge.

L - appr. 12 gps of 100 fish (est - 1,500 - 3,000)

M - 3-4 gps. composing 800-1000 fresh fish
in last 2 miles.