

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1999 CREEL SURVEY RESULTS

1999 PARIS WEST LAKE
 75 ACRES
 REGION 3, DISTRICT 11

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 04/09/1999 through 10/31/1999
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 153/618 = 24.8%

NUMBER OF INTERVIEWS: 525

Table 1. Total fishing effort, by fishing mode and day type.

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI	HOURS/ACRE	95% CI	% EFF
BOAT	WEEKDAY	573	296-851 (48%)	8	4-11 (48%)	12%
	HOLIDAY	1461	958-1965 (34%)	20	13-26 (34%)	28%
	TOTAL	2035	1475-2595 (28%)	27	20-35 (28%)	24%
SHORE	WEEKDAY	2934	2079-3789 (29%)	39	28-51 (29%)	10%
	HOLIDAY	3179	2396-3961 (25%)	43	32-53 (25%)	21%
	TOTAL	6113	5021-7204 (18%)	82	67-97 (18%)	16%
BOAT & SHORE	WEEKDAY	3507	2619-4395 (25%)	47	35-59 (25%)	11%
	HOLIDAY	4640	3760-5521 (19%)	62	50-74 (19%)	23%
	TOTAL	8147	6931-9364 (15%)	109	93-126 (15%)	18%

Table 2. Total fishing harvest and harvest rates, in numbers of fish.

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
1856	1048-2663	(44%)	.120	.051-.190 (58%)	61.46	24.87	All species
856	283-1430	(67%)	.037	.006-.067 (84%)	28.36	11.48	Bluegill
39	0-102	(160%)	.001	.000-.002 (145%)	1.30	0.53	Carp
820	435-1206	(47%)	.052	.022-.082 (57%)	27.18	11.00	Channel catfish
51	0-134	(161%)	.001	.000-.002 (143%)	1.70	0.69	Green sunfish
30	0-63	(107%)	.026	.000-.089 (236%)	1.01	0.41	Largemouth bass
			****	NOT RECORDED ****			Longear sunfish
			****	NOT RECORDED ****			Orangespotted sunfish
50	0-117	(133%)	.003	.000-.010 (242%)	1.67	0.68	White crappie
8	0-26	(235%)	.001	.000-.002 (263%)	0.26	0.10	Yellow bullhead
			****	NOT RECORDED ****			Yellow bass

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
412	263-561	(36%)	.049	.000-.107 (116%)	13.64	0.222	All species
50	12-89	(77%)	.002	.000-.004 (84%)	1.66	0.059	Bluegill
35	0-82	(135%)	.001	.000-.002 (129%)	1.15	0.890	Carp
292	156-427	(46%)	.022	.000-.051 (134%)	9.66	0.356	Channel catfish
2	0-5	(148%)	.000	.000-.000 (142%)	0.07	0.040	Green sunfish
29	0-64	(123%)	.024	.000-.079 (235%)	0.95	0.958	Largemouth bass
			****	NOT RECORDED ****			Longear sunfish
			****	NOT RECORDED ****			Orangespotted sunfish
4	0-8	(131%)	.000	.000-.001 (275%)	0.12	0.071	White crappie
1	0-4	(302%)	.000	.000-.001 (316%)	0.03	0.142	Yellow bullhead
			****	NOT RECORDED ****			Yellow bass

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
908	580-1236	(36%)	.109	.000-.235 (116%)	12.17	0.490	All species
110	25-196	(77%)	.005	.001-.009 (84%)	1.48	0.129	Bluegill
76	0-180	(135%)	.002	.000-.005 (129%)	1.03	1.961	Carp
643	345-942	(46%)	.048	.000-.113 (134%)	8.62	0.784	Channel catfish
4	0-11	(148%)	.000	.000-.000 (142%)	0.06	0.088	Green sunfish
63	0-141	(123%)	.052	.000-.175 (235%)	0.85	2.112	Largemouth bass
			****	NOT RECORDED ****			Longear sunfish
			****	NOT RECORDED ****			Orangespotted sunfish
8	0-18	(131%)	.001	.000-.003 (275%)	0.11	0.157	White crappie
2	0-9	(302%)	.000	.000-.002 (316%)	0.03	0.312	Yellow bullhead
			****	NOT RECORDED ****			Yellow bass

Table 5. Total fishing catch and catch rates, in numbers of fish.
Catch includes both harvested and released fish.

# CAUGHT	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
10074	6802-13347 (32%)	.714	.502-.925 (30%)	333.69	135.04	All species
4746	3332-6159 (30%)	.248	.171-.325 (31%)	157.19	63.61	Bluegill
46	0-110 (137%)	.002	.000-.003 (108%)	1.53	0.62	Carp
2240	1716-2763 (23%)	.217	.161-.272 (26%)	74.18	30.02	Channel catfish
307	101-513 (67%)	.012	.002-.021 (80%)	10.17	4.12	Green sunfish
799	493-1105 (38%)	.095	.029-.161 (69%)	26.47	10.71	Largemouth bass
5	0-18 (226%)	.000	.000-.000 (231%)	0.18	0.07	Longear sunfish
15	0-63 (318%)	.003	.000-.015 (430%)	0.50	0.20	Orangespotted sunfish
1475	0-12177 (726%)	.113	.000-.841 (642%)	48.85	19.77	White crappie
181	88-274 (51%)	.009	.000-.023 (143%)	5.99	2.43	Yellow bullhead
260	41-480 (84%)	.015	.000-.035 (138%)	8.62	3.49	Yellow bass

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
1385	1064-1705 (23%)	.127	.071-.183 (44%)	45.87	0.137	All species
244	166-321 (32%)	.013	.009-.017 (32%)	8.08	0.051	Bluegill
44	0-92 (111%)	.002	.000-.003 (107%)	1.45	0.952	Carp
462	324-601 (30%)	.044	.018-.070 (59%)	15.31	0.206	Channel catfish
11	0-21 (97%)	.000	.000-.001 (119%)	0.36	0.035	Green sunfish
463	278-648 (40%)	.057	.001-.113 (98%)	15.33	0.579	Largemouth bass
0	0-2 (226%)	.000	.000-.000 (226%)	0.02	0.095	Longear sunfish
2	0-9 (430%)	.000	.000-.001 (318%)	0.05	0.118	Orangespotted sunfish
116	0-1021 (778%)	.008	.000-.067 (726%)	3.85	0.079	White crappie
25	9-40 (61%)	.001	.000-.003 (76%)	0.81	0.136	Yellow bullhead
18	2-35 (87%)	.001	.000-.003 (140%)	0.61	0.071	Yellow bass

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
3053	2347-3760 (23%)	.280	.156-.403 (44%)	40.93	0.303	All species
538	367-708 (32%)	.028	.019-.037 (32%)	7.21	0.113	Bluegill
97	0-204 (111%)	.004	.000-.007 (107%)	1.29	2.100	Carp
1019	714-1325 (30%)	.097	.040-.154 (59%)	13.66	0.455	Channel catfish
24	1-47 (97%)	.001	.000-.002 (119%)	0.32	0.078	Green sunfish
1020	612-1428 (40%)	.126	.002-.249 (98%)	13.68	1.277	Largemouth bass
1	0-3 (226%)	.000	.000-.000 (226%)	0.01	0.210	Longear sunfish
4	0-15 (318%)	.001	.000-.003 (318%)	0.05	0.259	Orangespotted sunfish
256	0-2251 (778%)	.018	.000-.147 (726%)	3.44	0.174	White crappie
54	21-87 (61%)	.003	.001-.006 (76%)	0.72	0.300	Yellow bullhead
41	5-76 (87%)	.002	.000-.006 (140%)	0.55	0.157	Yellow bass

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	4.1	3.5-4.7 (15%)		1.0	9.0	64
SHORE	1.6	1.4-1.8 (14%)		0.2	4.5	105
BOAT & SHORE	2.5	2.2-2.9 (13%)		0.2	9.0	169
MILES TRAVELED	12.4	9.7-15.1 (22%)		1	430	437
SUCCESS RATING (1-10)	3.7	3.5-4.0 (7%)		1	10	435

*52 samples were from split interviews of completed trips.
 35.9% of all 471 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 3 out of 471 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	33	48	5							
SHORE INTERVIEWS	210	95	49	17	11	1	1			1

Table 10. Number of interviews (and %) per species sought for all interviews.

80 (17.0%)	ANY	All species
63 (13.4%)	BLG	Bluegill
11 (2.3%)	CAP	Carp
217 (46.1%)	CCF	Channel catfish
9 (1.9%)	CRP	Crappie spp.
90 (19.1%)	LMB	Largemouth bass
1 (0.2%)	WHC	White crappie



Figure 1. Paris Lake West 1999 day creel 4/09 through 10/31. Length-frequency histogram of bluegill harvested by all anglers.

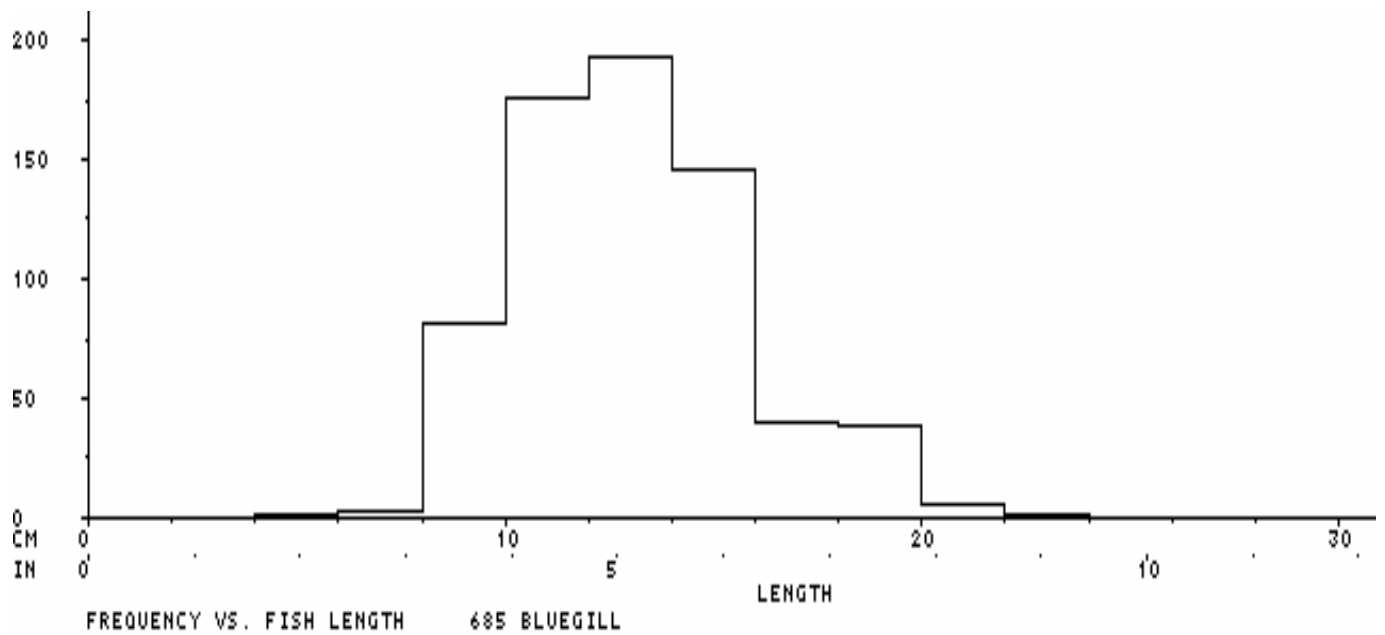


Figure 2. Paris Lake West 1999 day creel 4/09 through 10/31. Length-frequency histogram of bluegill released by all anglers.

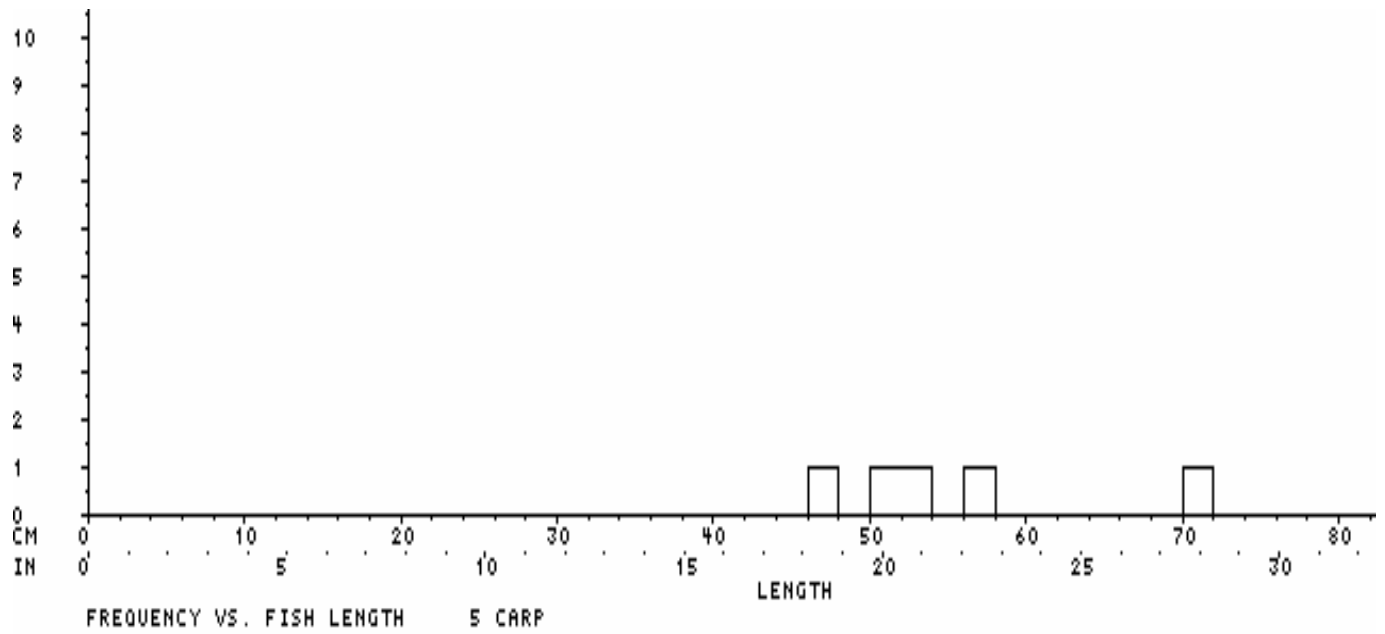


Figure 3. Paris Lake West 1999 day creel 4/09 through 10/31. Length-frequency histogram of carp harvested by all anglers.

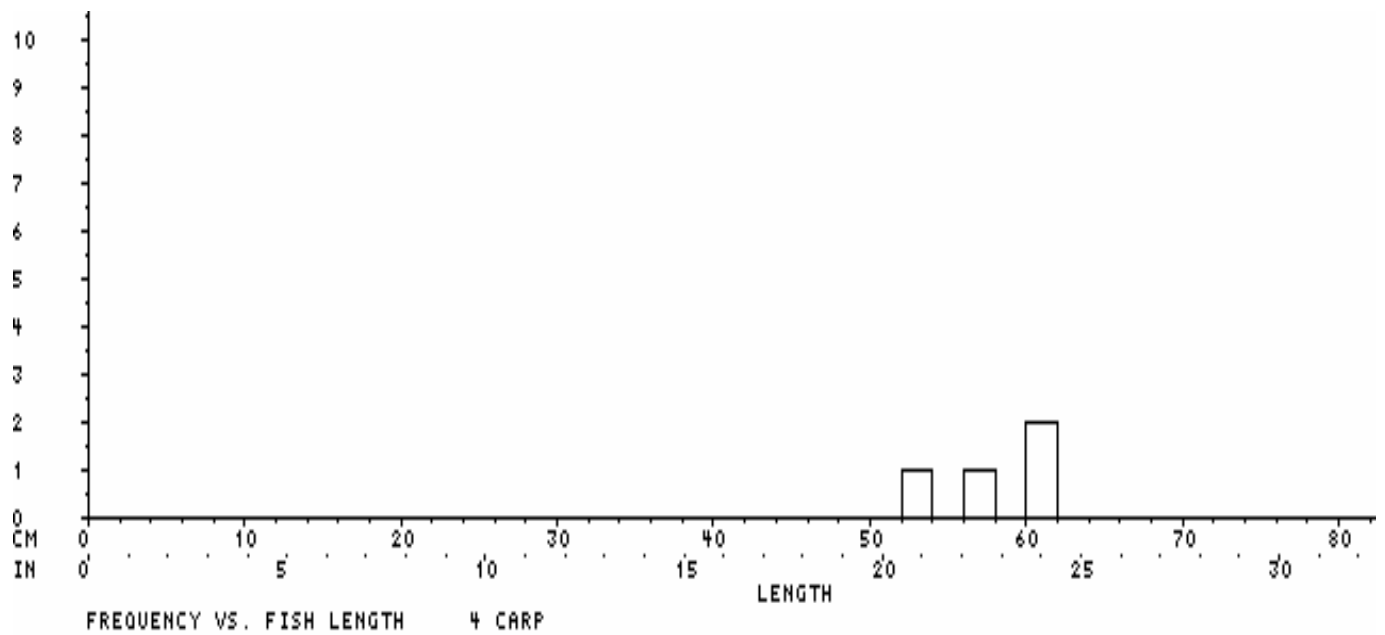


Figure 4. Paris Lake West 1999 day creel 4/09 through 10/31. Length-frequency histogram of carp released by all anglers.

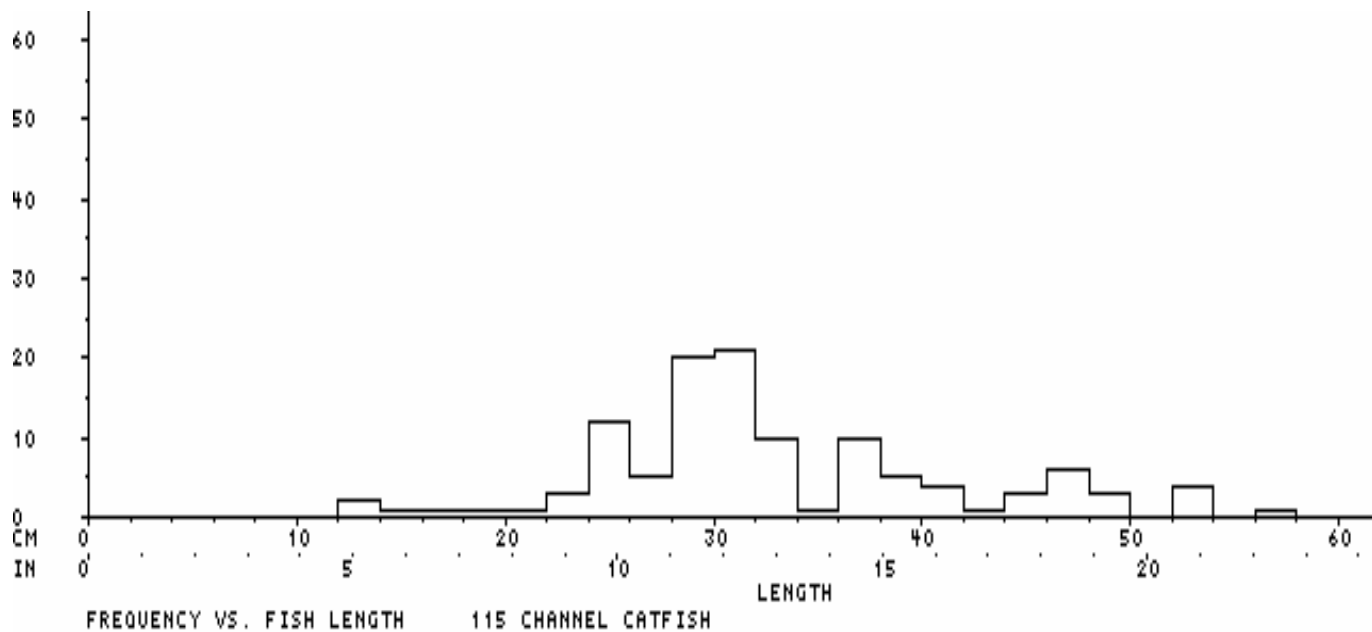


Figure 5. Paris Lake West 1999 day creel 4/09 through 10/31. Length-frequency histogram of channel catfish harvested by all anglers.

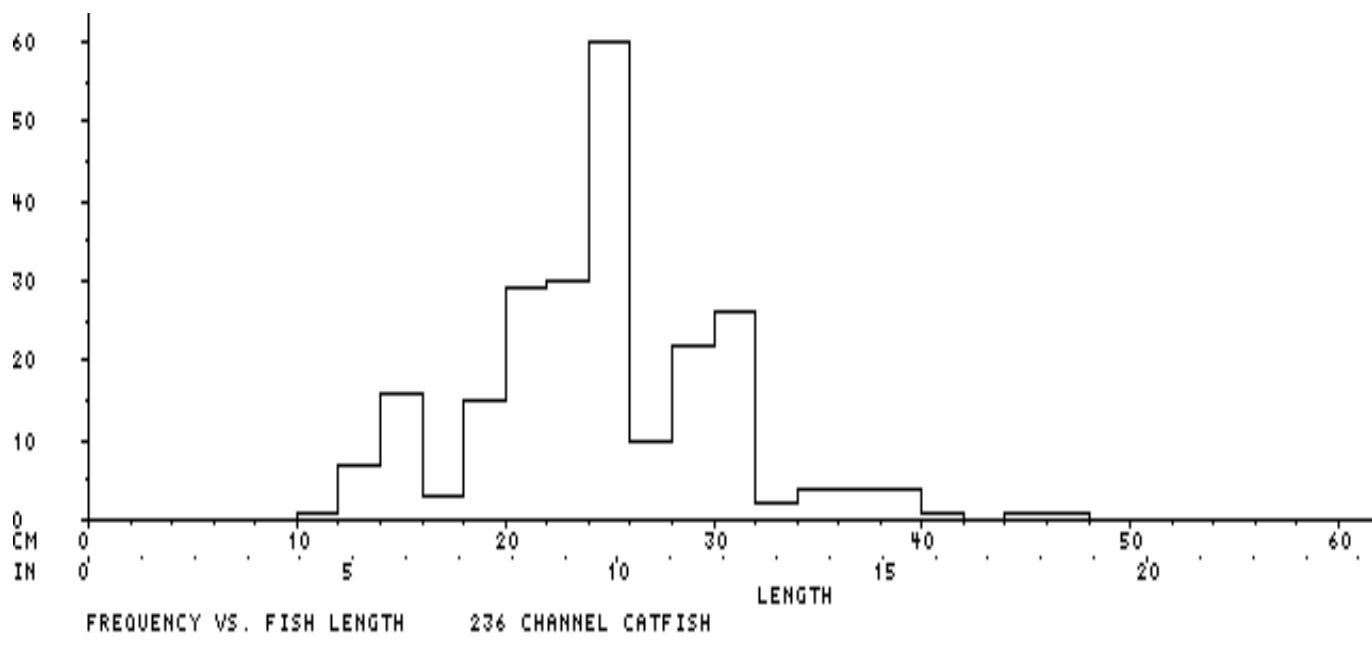


Figure 6. Paris Lake West 1999 day creel 4/09 through 10/31. Length-frequency histogram of channel catfish released by all anglers.

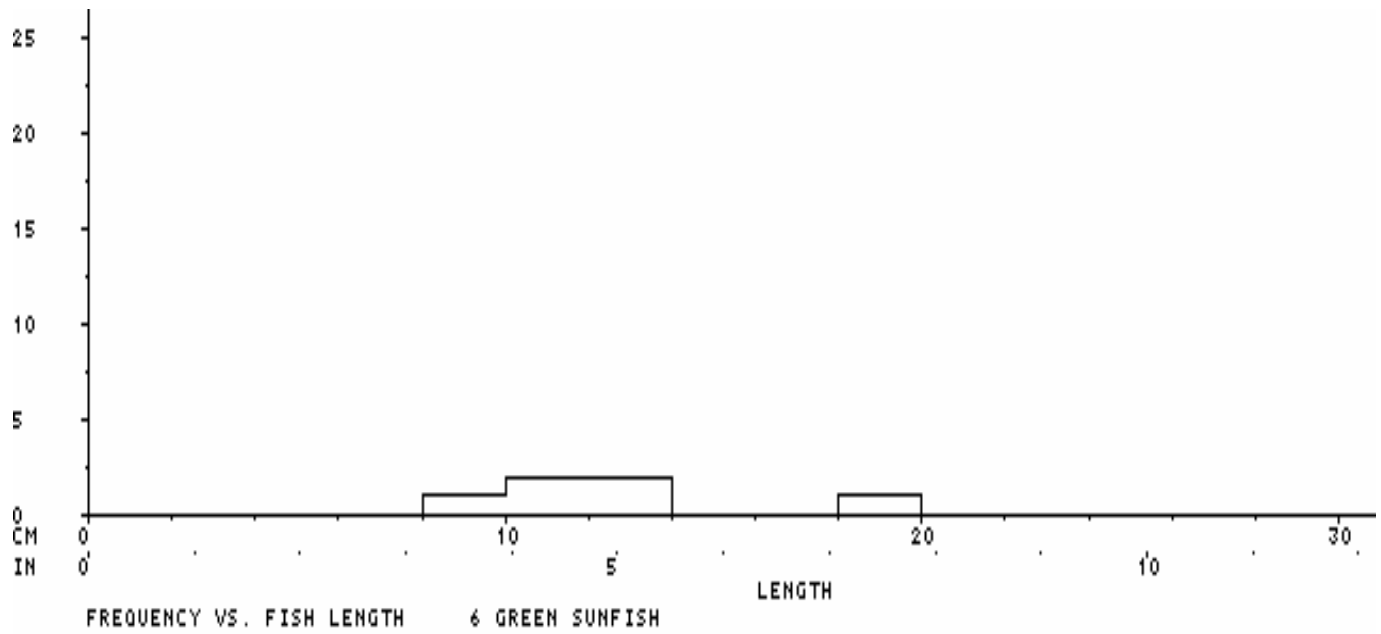


Figure 7. Paris Lake West 1999 day creel 4/09 through 10/31. Length-frequency histogram of green sunfish harvested by all anglers.

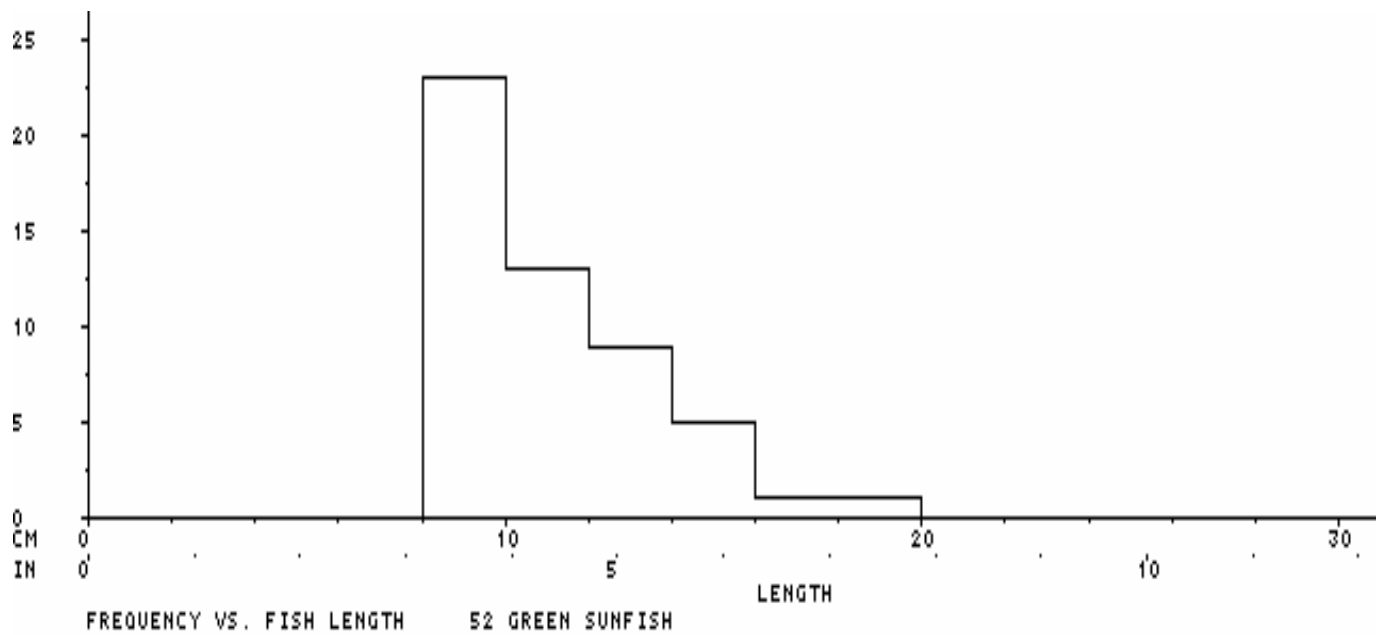


Figure 8. Paris Lake West 1999 day creel 4/09 through 10/31. Length-frequency histogram of green sunfish released by all anglers.

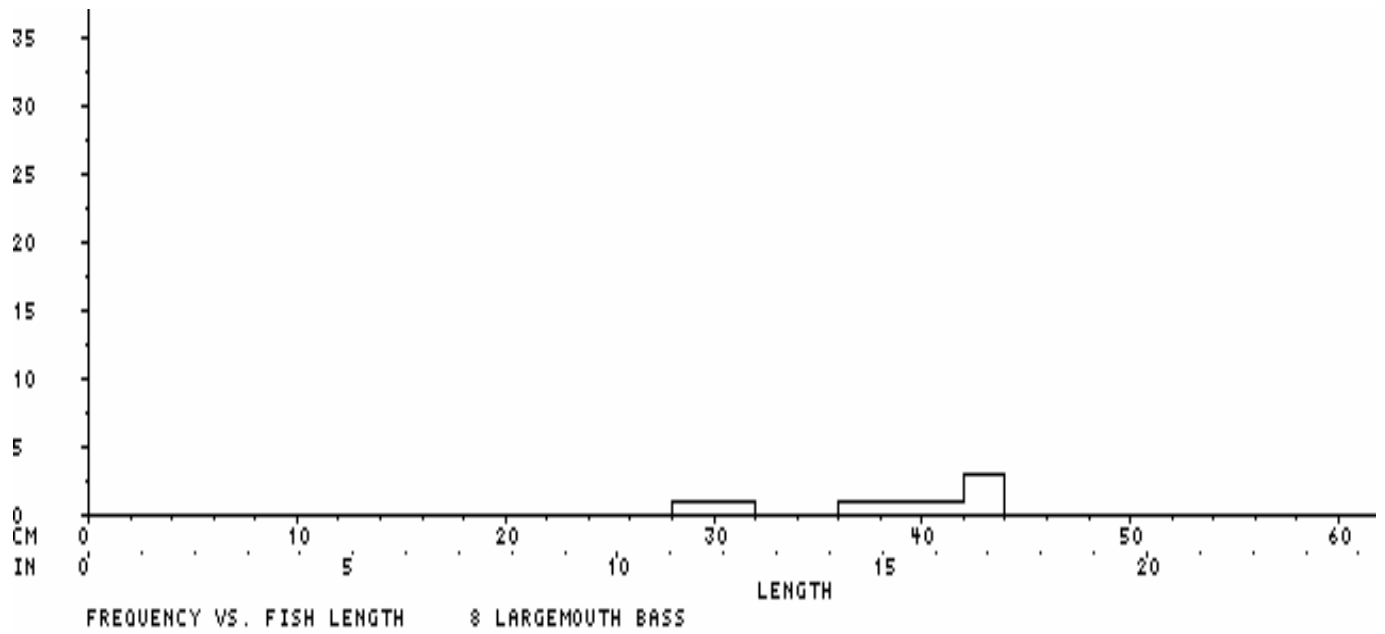


Figure 9. Paris Lake West 1999 day creel 4/09 through 10/31. Length-frequency histogram of largemouth bass harvested by all anglers.

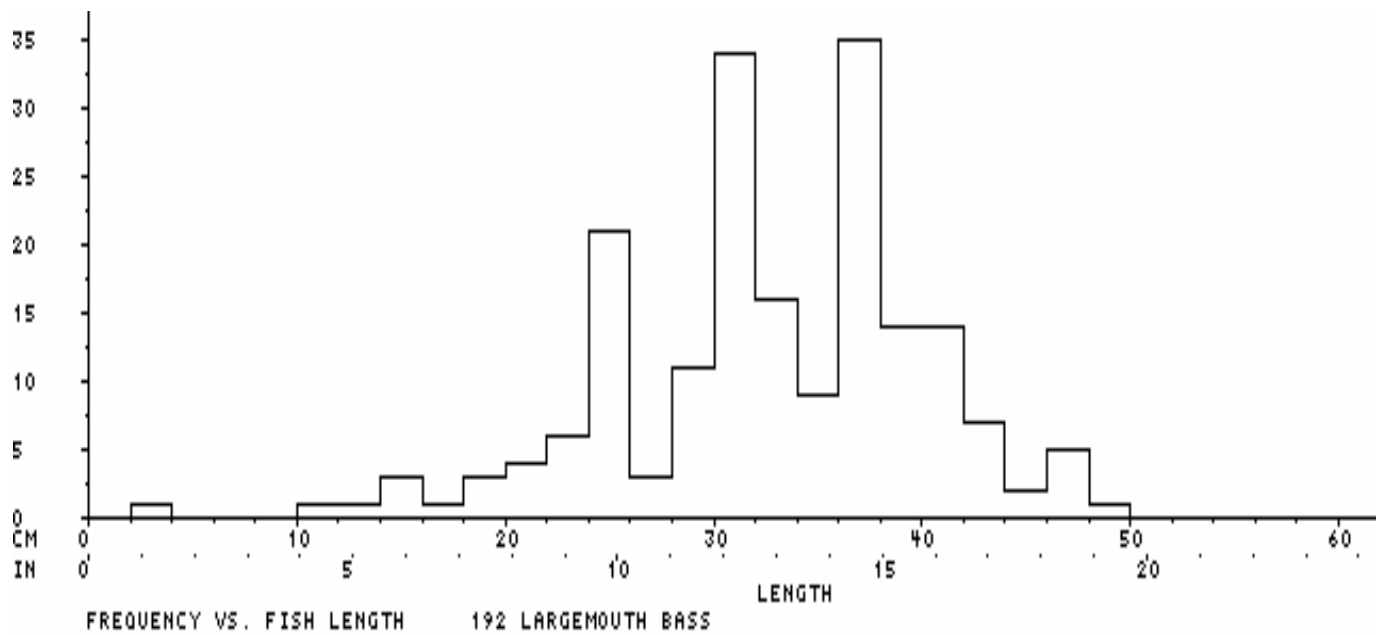


Figure 10. Paris Lake West 1999 day creel 4/09 through 10/31. Length-frequency histogram of largemouth bass released by all anglers.

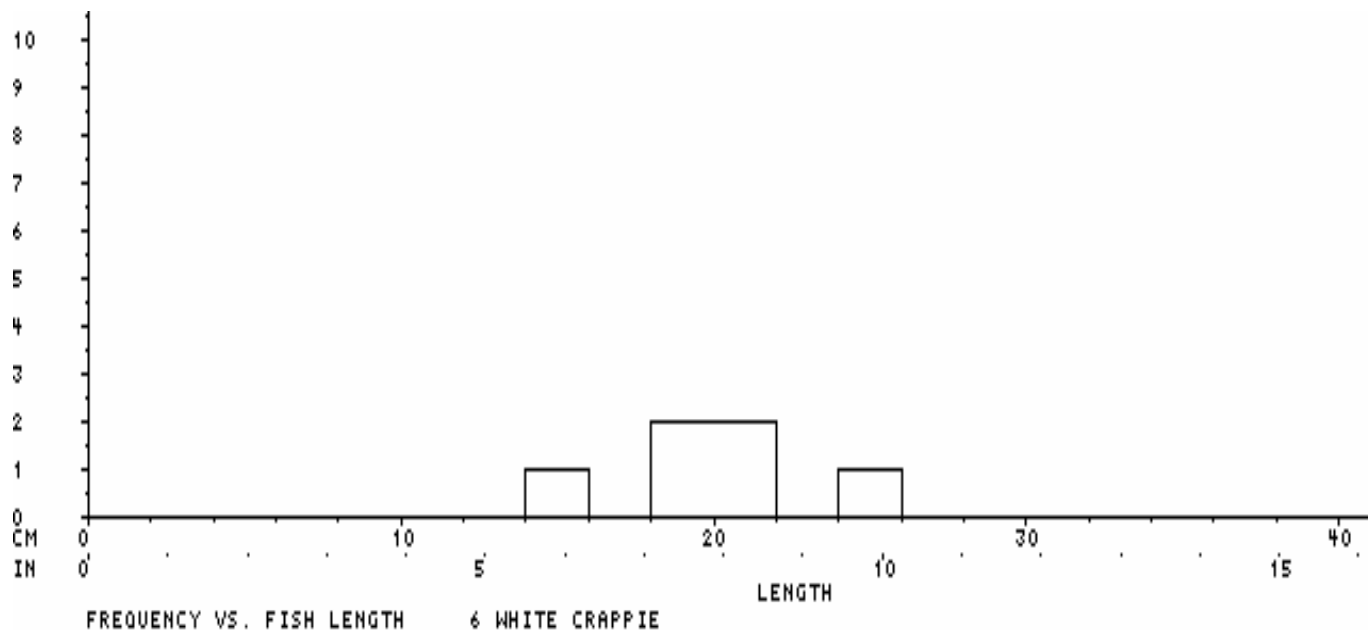


Figure 11. Paris Lake West 1999 day creel 4/09 through 10/31. Length-frequency histogram of white crappie harvested by all anglers.

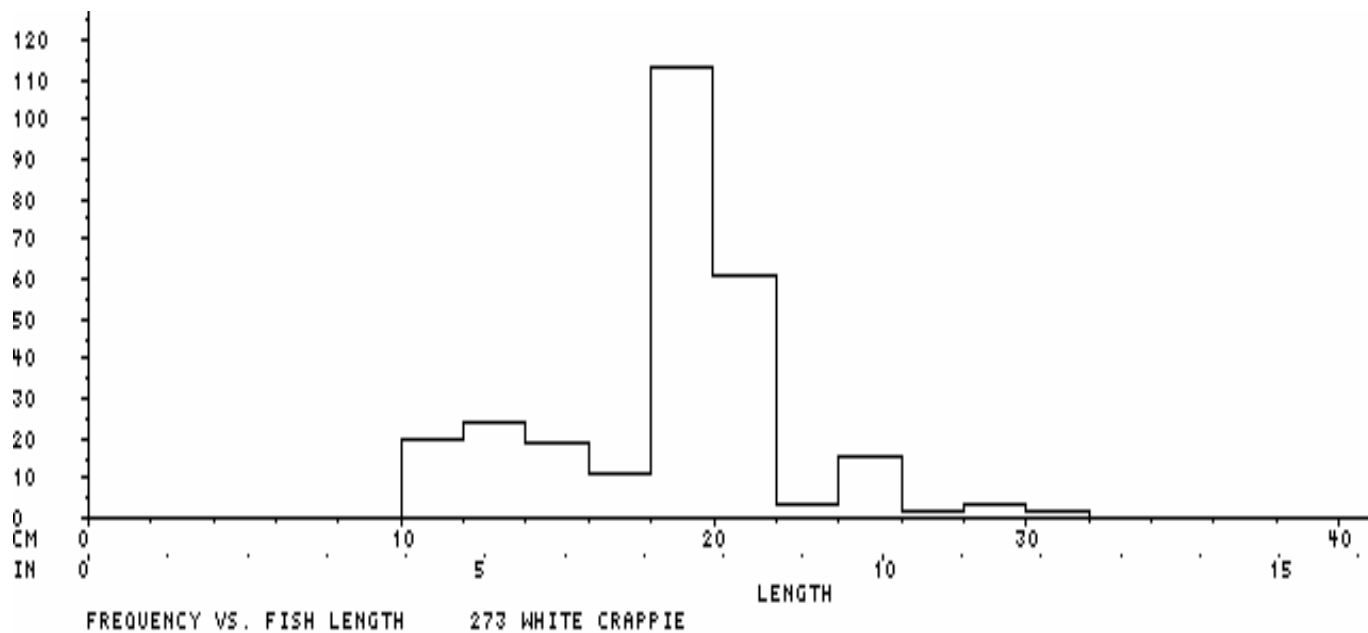


Figure 12. Paris Lake West 1999 day creel 4/09 through 10/31. Length-frequency histogram of white crappie released by all anglers. Note the difference in scale from Figure 11.

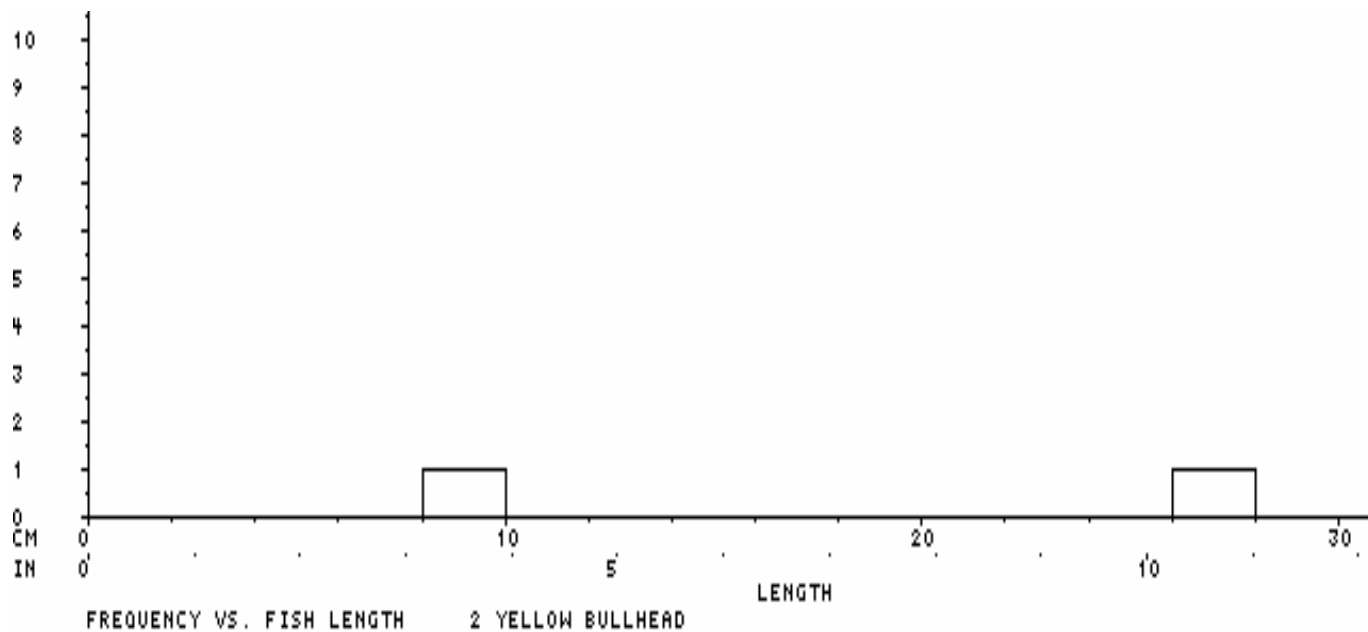


Figure 13. Paris Lake West 1999 day creel 4/09 through 10/31. Length-frequency histogram of yellow bullhead harvested by all anglers.

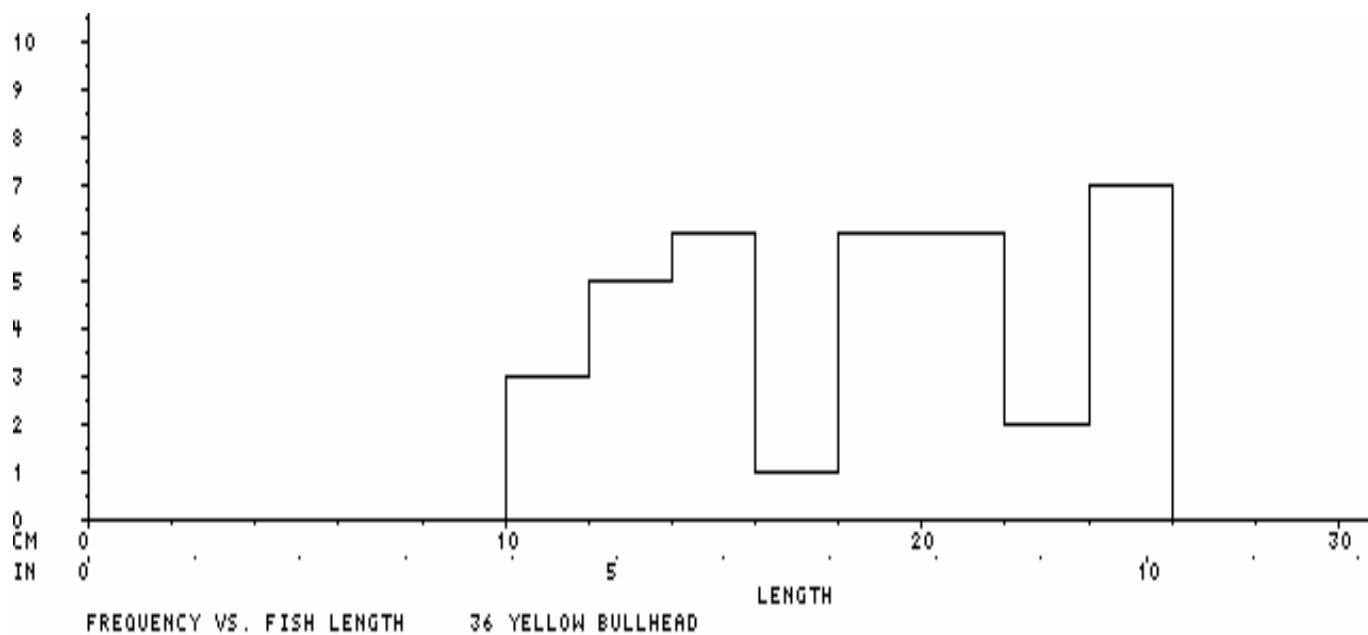


Figure 14. Paris Lake West 1999 day creel 4/09 through 10/31. Length-frequency histogram of yellow bullhead released by all anglers.

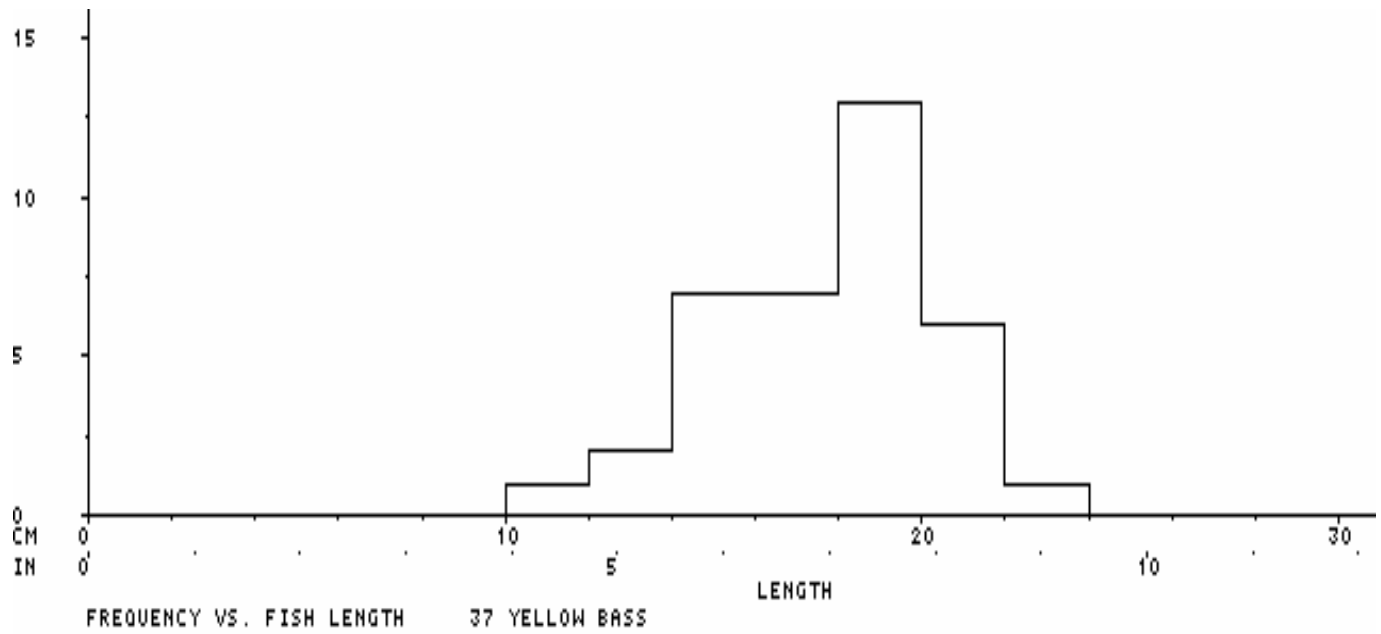


Figure 15. Paris Lake West 1999 day creel 4/09 through 10/31. Length-frequency histogram of yellow bass released by all anglers. Note that zero harvested yellow bass were recorded in angler interviews.