

TECHNICAL MEMORANDUM BCWA

To: *Bear Creek Watershed Association*
From: Russell N. Clayshulte, Manager
Re: TM 2014.14- Fishery Survey in BCW



The Colorado Parks and Wildlife (“CPW”) collects aquatic data from both internal sources and a variety of external governmental and non-governmental agencies. CPW provides this data, upon request, solely as a public service. In September 2014, personnel from the CPW conducted fishery surveys on Bear Creek. The fishery data is summarized in this technical memorandum as processed by the BCWA. CPW makes no warranty, representation, or guarantee as to the content, accuracy or completeness of any of the data provided.

Fishery surveys were done at 7 sites (Table 1). No data was collected from the Morrison station due to excessive high water. Table 2 is the 2014 fishery data supplied to the BCWA for use in its watershed management program. This data may not be re-published without approval of the BCWA.

Table 1 2014 Survey sites in Bear Creek Watershed

Station Location	Station Length	Avg Width	Survey Date	Survey ID
Downtown Evergreen Little Bear	423	34	9/16/2014	41910
Idledale ABV Bridge	505	25	9/16/2014	41911
Lair O’ Bear Picnic Areas (#13)	491	29	9/16/2014	41912
BLW Bear Creek Cabins (#1)	441	32	9/17/2014	41909
O’Fallon Park Picnic Areas (#14)	372	28	9/17/2014	41913
ABV Golf Course at Dedisse Park	368	33	9/18/2014	41908
Just above Golden Willow Rd.	342	23	9/18/2014	42300

Table 2 2014 Fishery Summary Data Provided by CPW

Station	Standardized Average Width (ft)	Species	2014					
			No./Acre Total	Ib/Acre Total	No/Mile Total	No./Acre >12cm	Ib/Acre >12cm	No/Mile >12cm
Golden Willow	23	Brown	988	70	354	973	69	349
		Rainbow	385	27	138	31	2	11
		TOTAL	1373	97	492	1004	71	360
Dedisse Park	33	Brown	321	42	1284	317	42	1269
		Rainbow	107	14	427	74	10	269
		TOTAL	428	56	1711	391	52	1538
Downtown Evergreen	34	Brown	450	101	1855	327	104	1347
		Rainbow	352	79	1450	240	76	990
		TOTAL	802	180	3305	567	180	2337
Bear Creek Cabins	32	Brown	764	68	2962	246	58	952
		Rainbow	271	24	1051	99	23	385
		TOTAL	1035	92	4013	345	81	1337
O’Fallon Park	28	Brown	571	83	1938	417	85	1416
		Rainbow	38	5	128	4	1	13
		TOTAL	609	88	2066	421	86	1429
Lair O’ the Bear	29	Brown	464	127	1631	300	78	1054
		Rainbow	110	80	387	25	7	88
		TOTAL	574	207	2018	325	85	1142
Idledale	25	Brown	601	127	1820	394	114	1195
		Rainbow	103	22	311	21	6	75
		TOTAL	704	149	2131	415	120	1270

2014 Trends at Stations

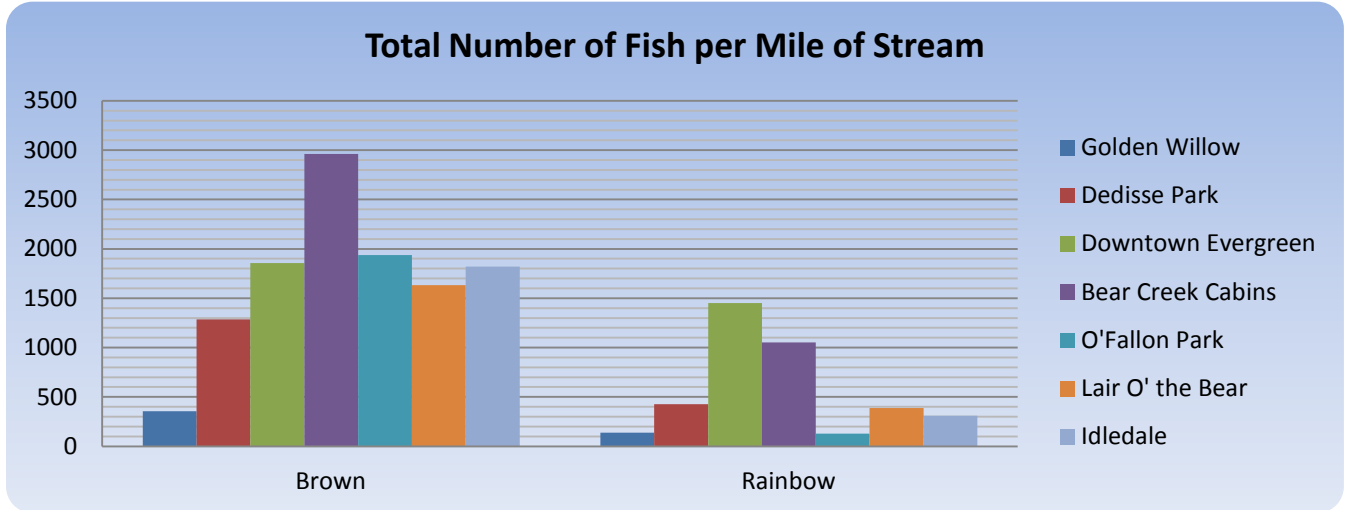


Figure 1 Total number of fish per mile of stream

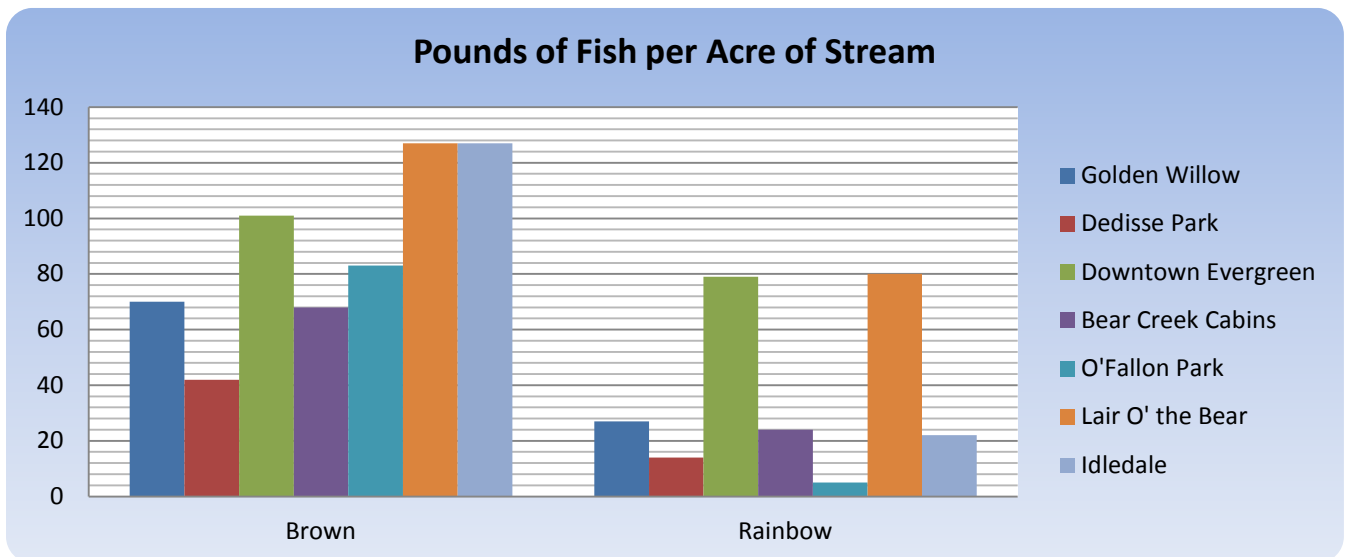


Figure 2 Pounds of fish per acre of stream

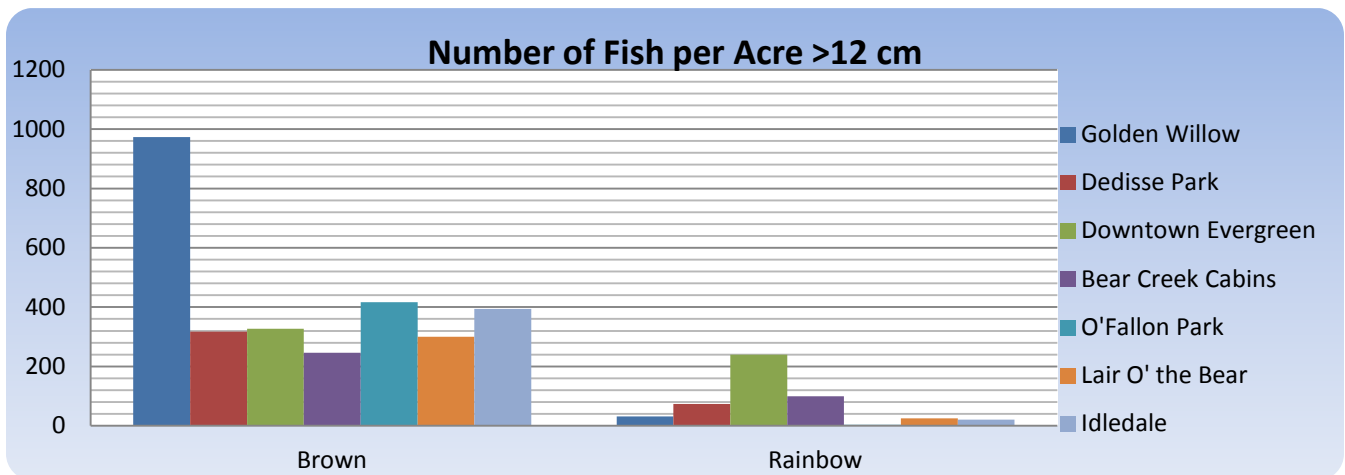


Figure 3 Number of fish > 12cm per acre of stream

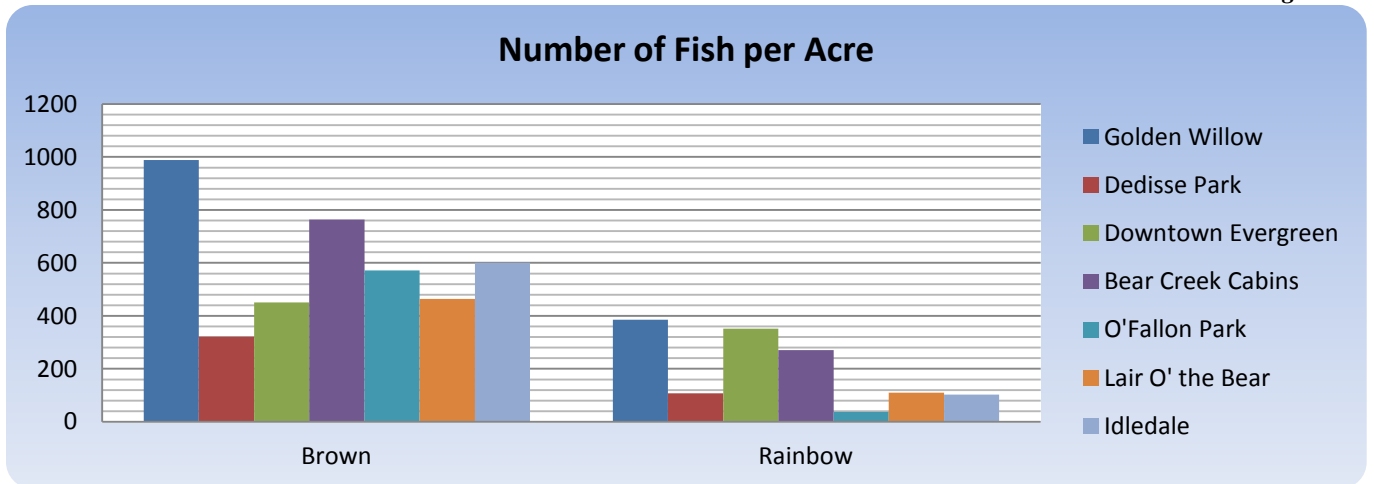


Figure 4 Total number of fish per acre of stream

Total Biomass Trends and Impact of the September 2013 Flood

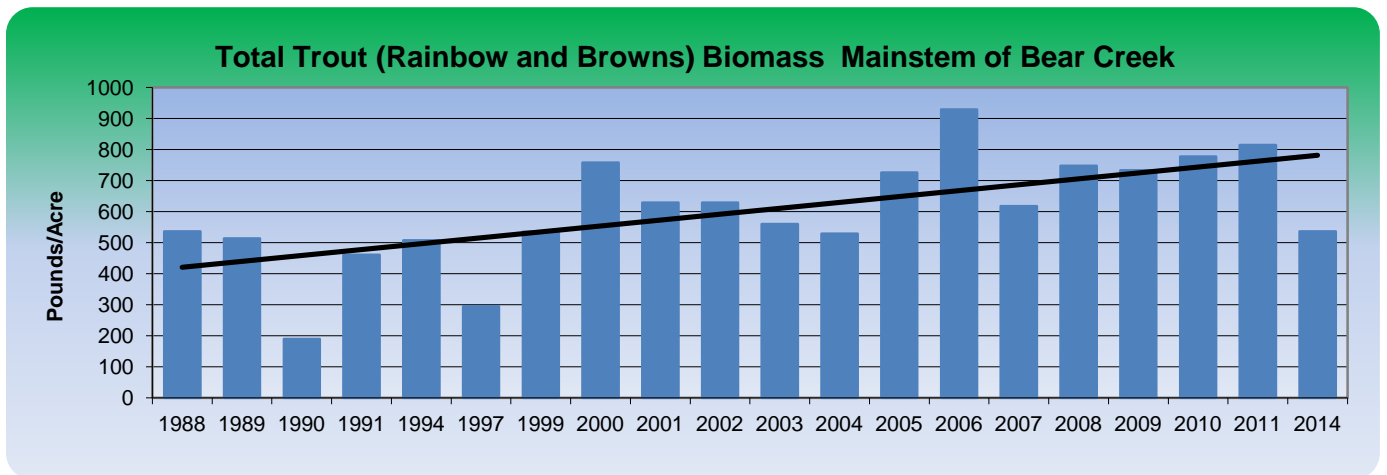


Figure 5 Total trout trend on mainstem of Bear Creek

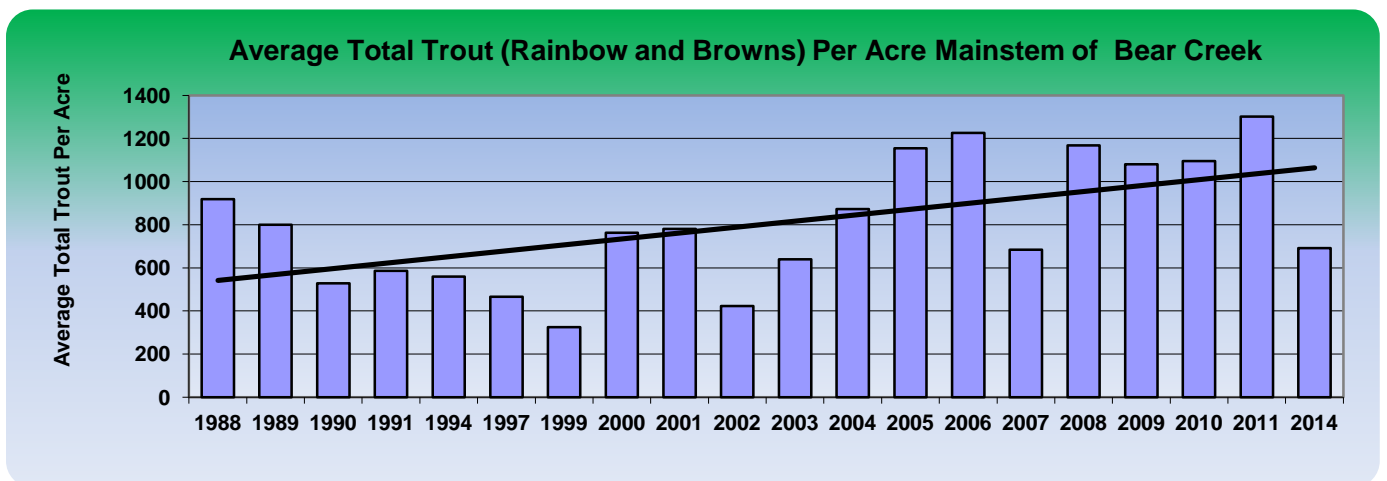


Figure 6 Average total trout per acre on mainstem of Bear Creek

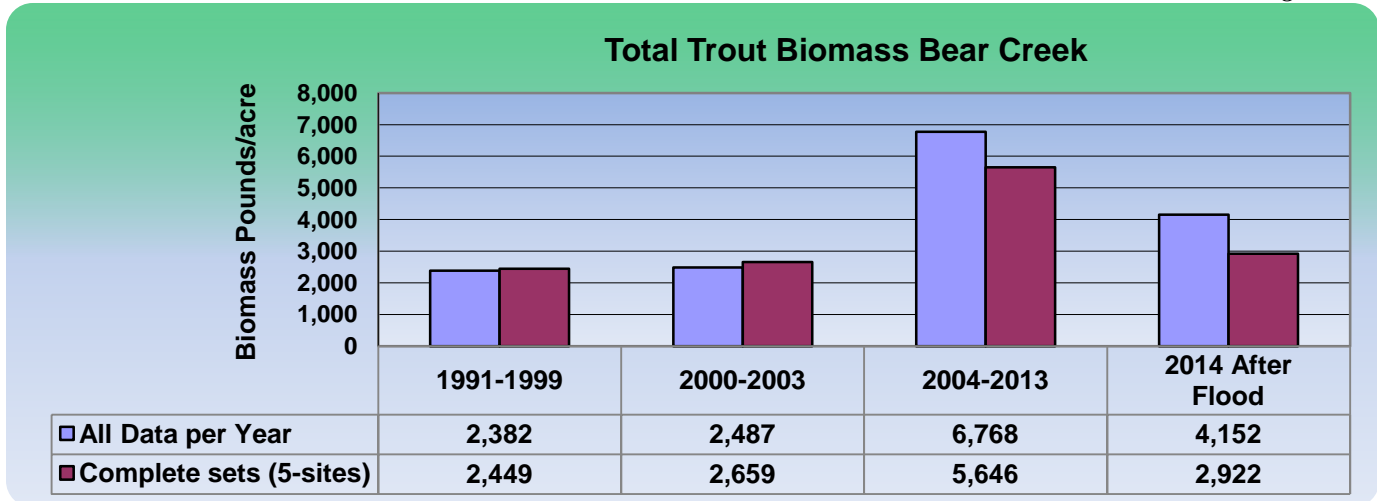


Figure 7 Affect of 2013 Flood on trout biomass
 Brown Trout Trends by Station

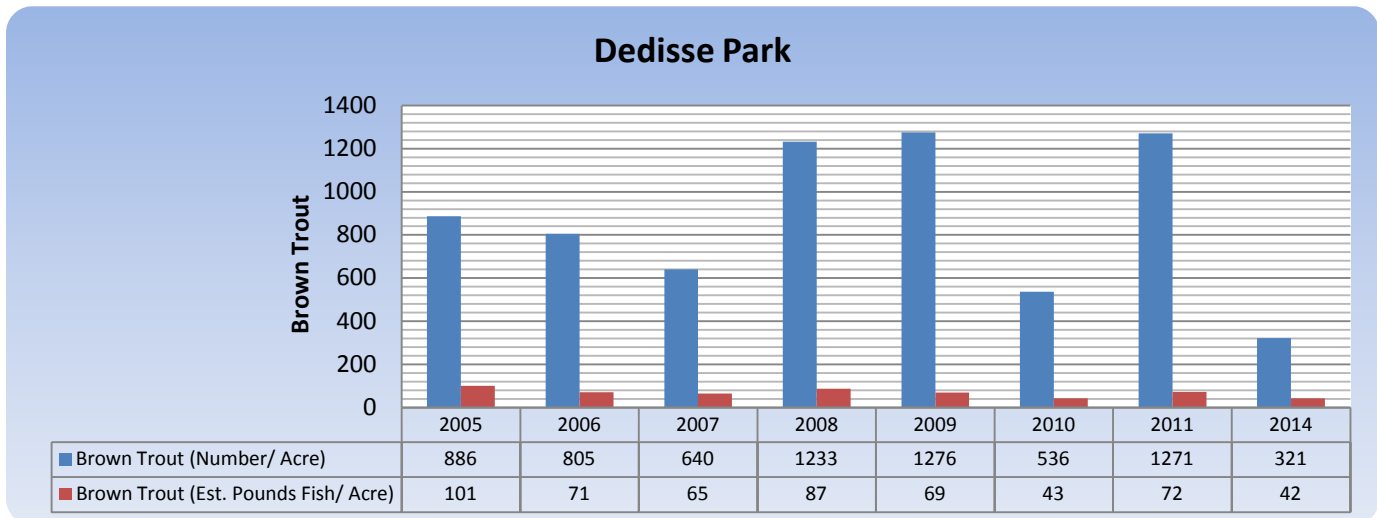


Figure 8 Dedisse Park

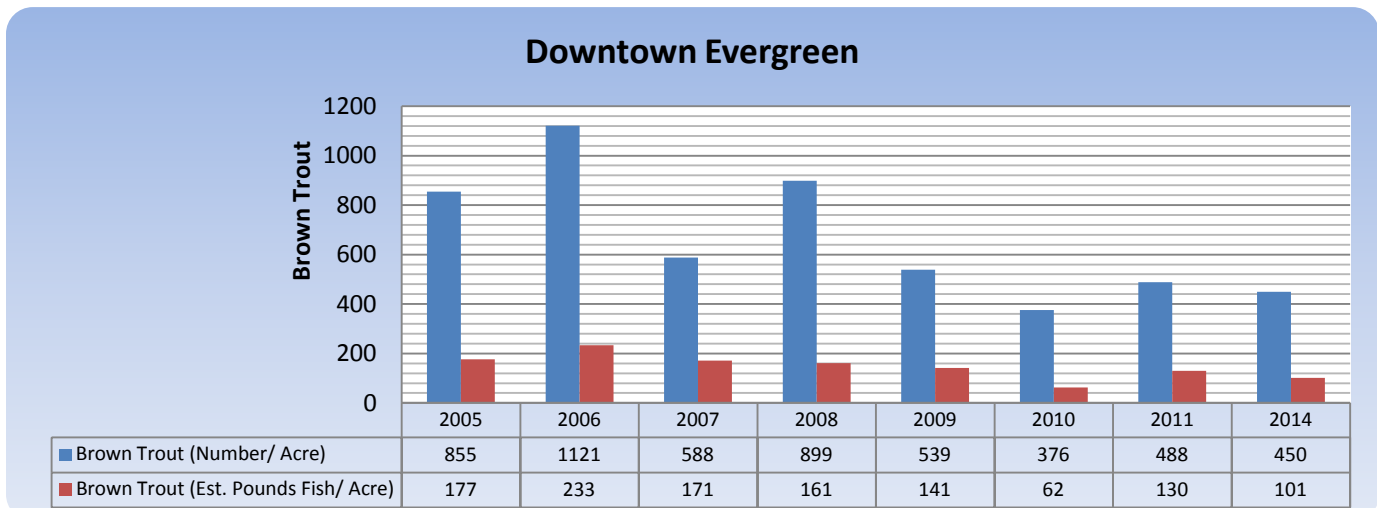


Figure 9 Downtown Evergreen

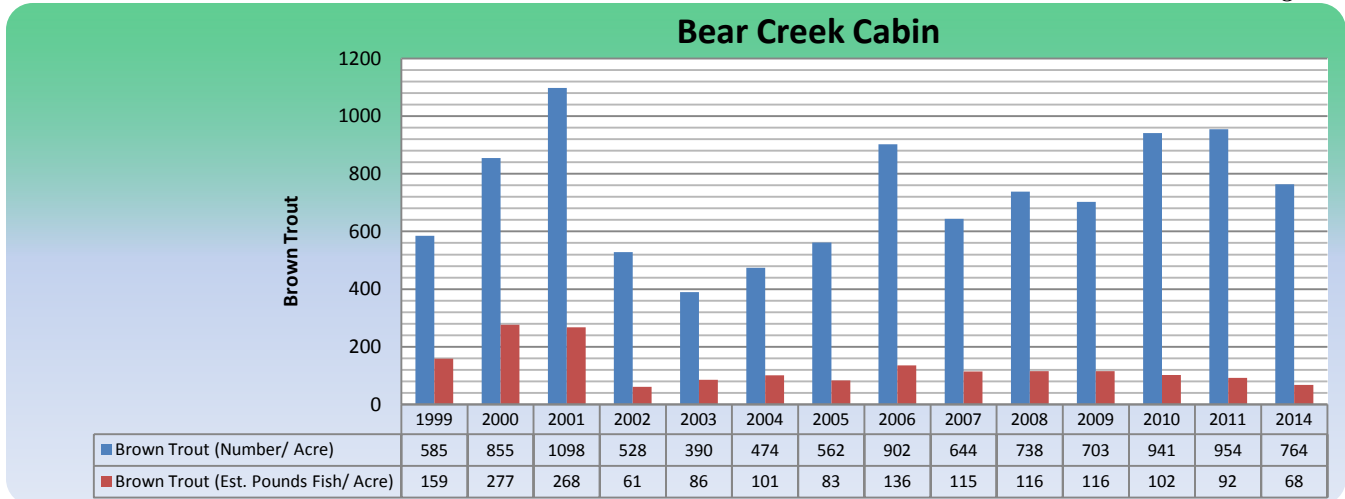


Figure 10 Bear Creek Cabins

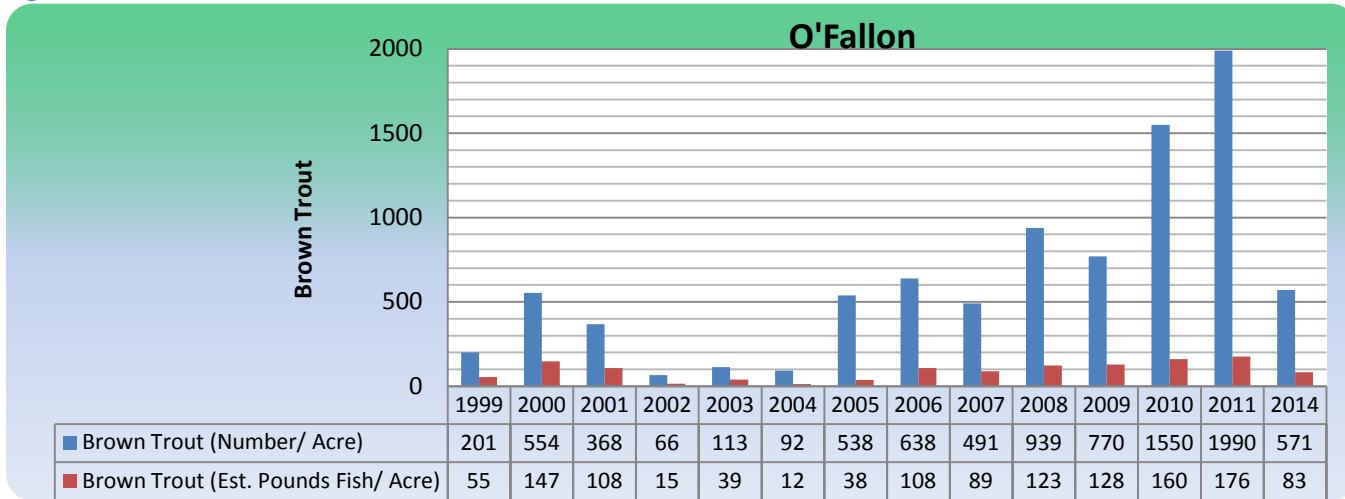


Figure 11 O'Fallon Park

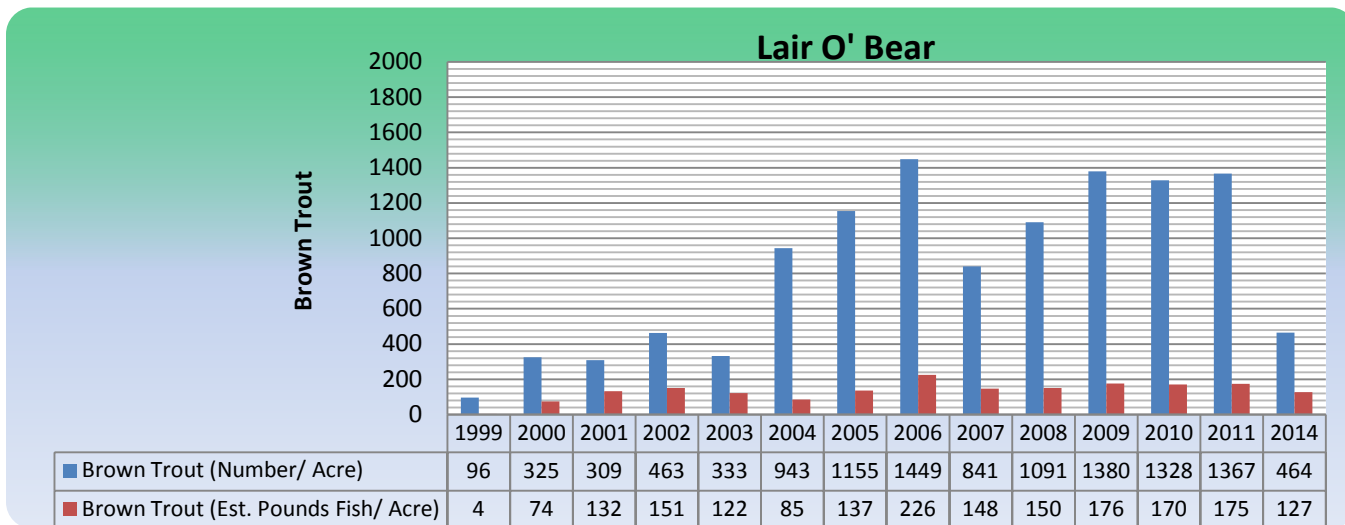


Figure 12 Lair O' Bear

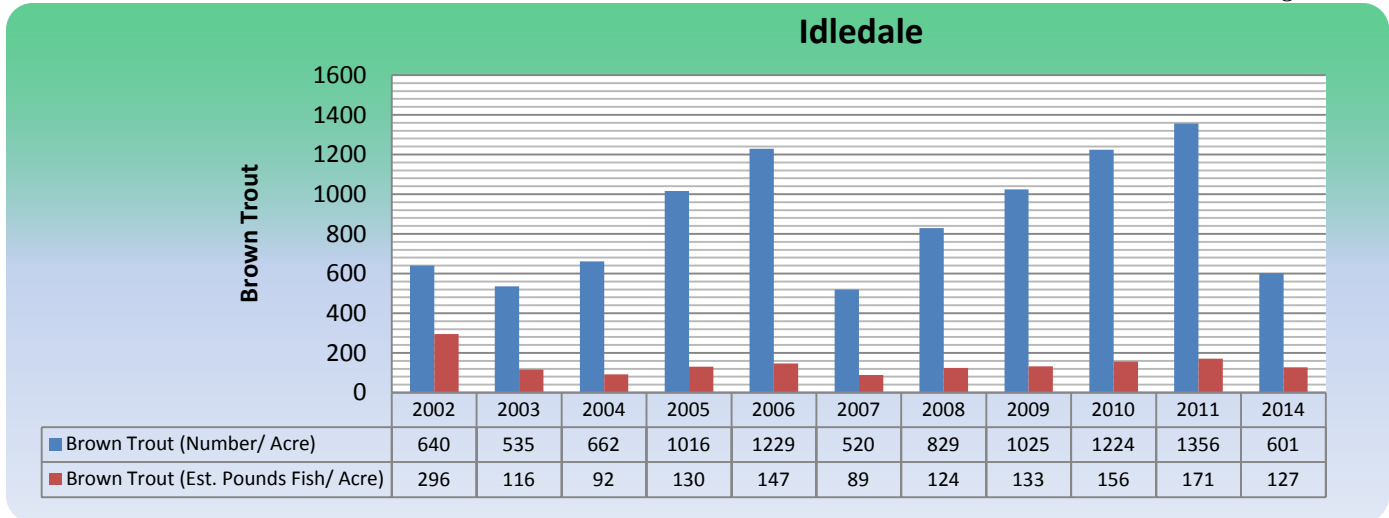


Figure 13 **Idledale**

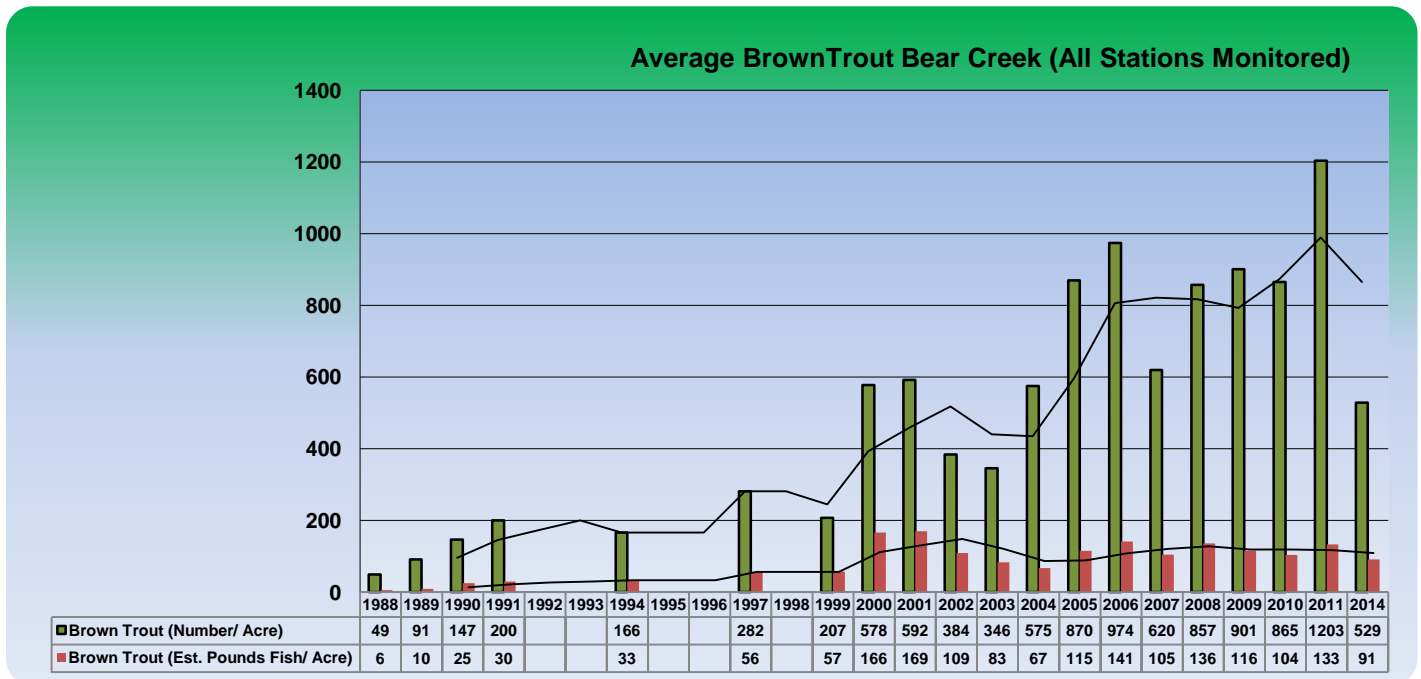


Figure 14 **Average Brown Trout Trend**