

Technical Memorandum BCWA



Date: February 29, 2016
To: Bear Creek Watershed Association
From: Russell N. Clayshulte, Manager

Re: BCWA TM 2015.11 Fishery

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2015 Survey Sites and Data

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 October 2015, personnel from the CPW conducted fishery surveys on Bear Creek. The fishery data is graphically 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 Lair O' Bear station due to upstream construction and high water turbidity. Table 2 is the 2015 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 3 compares the 2014 and 2015 fishery summaries.



Figure 1 2015 Fish Collection at O' Fallon Park

Table 1 2015 Bear Creek Watershed Fishery Survey Sites

Station Location	Station Length	Avg Width	Survey Date	Survey ID
Downtown Evergreen Across From Little Bear	423	34	10/5/2015	50248
O'Fallon Park Picnic Areas (#14)	372	28	10/5/2015	50255
BLW Bear Creek Cabins (#1)	441	32	10/6/2015	50237
ABV Golf Course at Dedisce Park	368	33	10/6/2015	50243
Just above Golden Willow Rd.	342	23	10/6/2015	50252
Idledale ABV Bridge	505	25	10/14/2015	50253
Morrison Park Just BLW Bridge	476	30	10/14/2015	50254

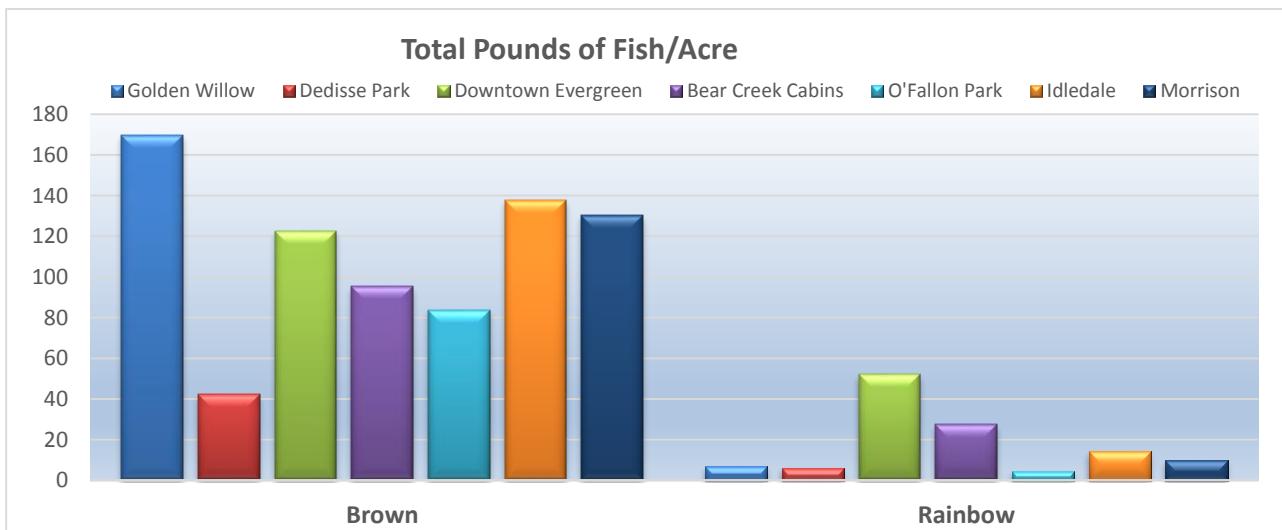
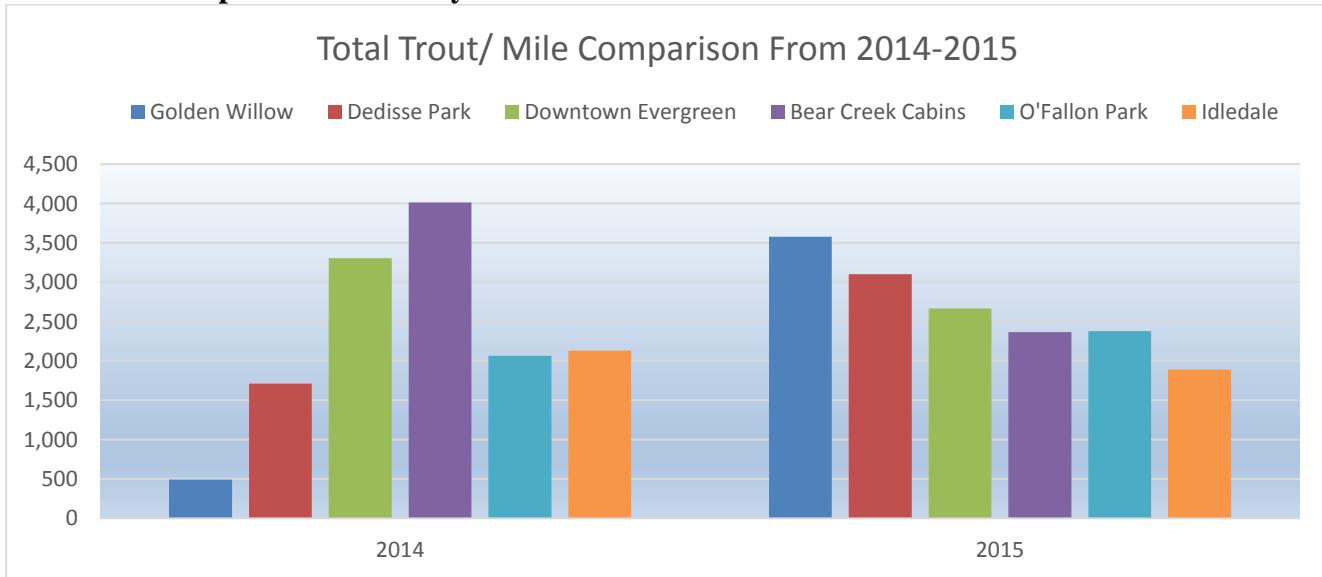
Table 2 2015 Fishery Data Summary

Station	Width (ft)	Species	2015		
			No./Mile Total	No./Acre Total	Ib./Acre Total
Golden Willow	23	Brown	3,438	1,233	170
		Rainbow	141	51	7
		TOTAL	3,579	1,284	177
Dedisce Park	33	Brown	2,718	679	42
		Rainbow	386	96	6
		TOTAL	3,103	776	48
Downtown Evergreen	34	Brown	1,872	454	123
		Rainbow	795	193	52
		TOTAL	2,667	647	175
Bear Creek Cabins	32	Brown	1,837	474	95
		Rainbow	528	136	27
		TOTAL	2,365	610	123
O'Fallon Park	28	Brown	2,262	666	84
		Rainbow	118	35	4
		TOTAL	2,380	701	88
Idledale	25	Brown	1,714	566	138
		Rainbow	178	59	14
		TOTAL	1,893	625	152
Morrison	30	Brown	2,047	563	130
		Rainbow	156	43	10
		TOTAL	2,203	606	140

2014-2015 Comparison of Fish Surveys**Table 3 2014 and 2015 Fishery Summary Comparison**

Station	Width (ft)	Species	2014			2015		
			No./Mile Total	No./Acre Total	Ib./Acre Total	No./Mile Total	No./Acre Total	Ib./Acre Total
Golden Willow	23	Brown	354	988	70	3,438	1,233	170
		Rainbow	138	385	27	141	51	7
		TOTAL	492	1,373	97	3,579	1,284	177
Dedisce Park	33	Brown	1,284	321	42	2,718	679	42
		Rainbow	427	107	14	386	96	6
		TOTAL	1,711	428	56	3,103	776	48
Downtown Evergreen	34	Brown	1,855	450	101	1,872	454	123
		Rainbow	1,450	352	79	795	193	52
		TOTAL	3,305	802	180	2,667	647	175
Bear Creek Cabins	32	Brown	2,962	764	68	1,837	474	95
		Rainbow	1,051	271	24	528	136	27
		TOTAL	4,013	1,035	92	2,365	610	123
O'Fallon Park	28	Brown	1,938	571	83	2,262	666	84
		Rainbow	128	38	5	118	35	4
		TOTAL	2,066	609	88	2,380	701	88
Lair O' the Bear	29	Brown	1,631	464	127			
		Rainbow	387	110	80			
		TOTAL	2,018	574	207			
Idledale	25	Brown	1,820	601	127	1,714	566	138
		Rainbow	311	103	22	178	59	14
		TOTAL	2,131	704	149	1,893	625	152
Morrison	30	Brown				2,047	563	130
		Rainbow				156	43	10
		TOTAL				2,203	606	140

2015 Fishery Graphs**Figure 2 2015 Number of Fish per Mile**

**Figure 3** 2015 Number of Fish per Acre**Figure 4** 2015 Total Pounds of Fish per Acre**2014-2015 Comparison of Fishery Summaries****Figure 5** Comparison of Trout per Mile from 2014 to 2015

Brown Trout/ Acre Comparison From 2014-2015

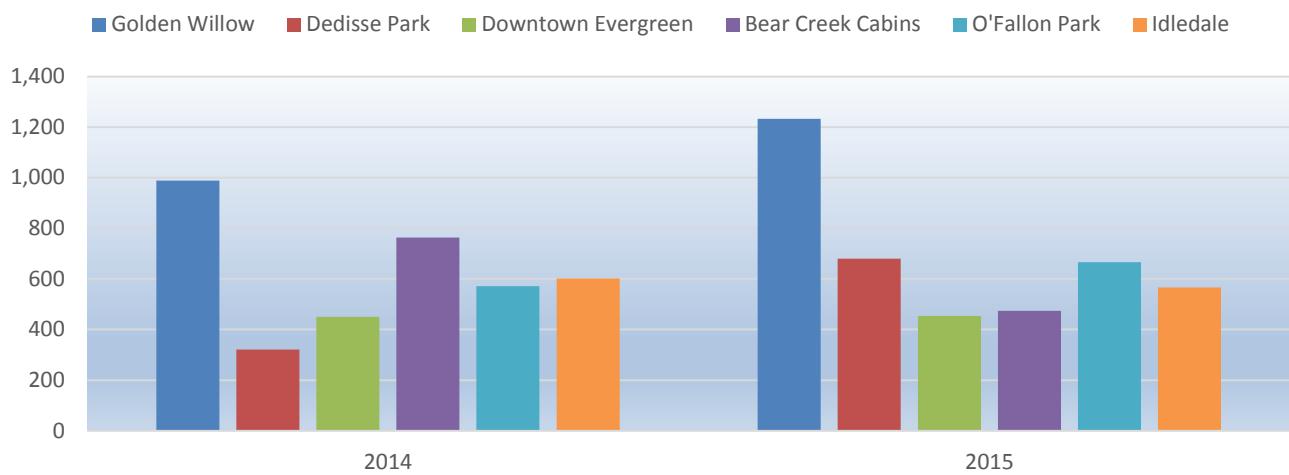


Figure 6 Comparison of Brown Trout per Acre from 2014-2015

Long-Term Fishery Trends

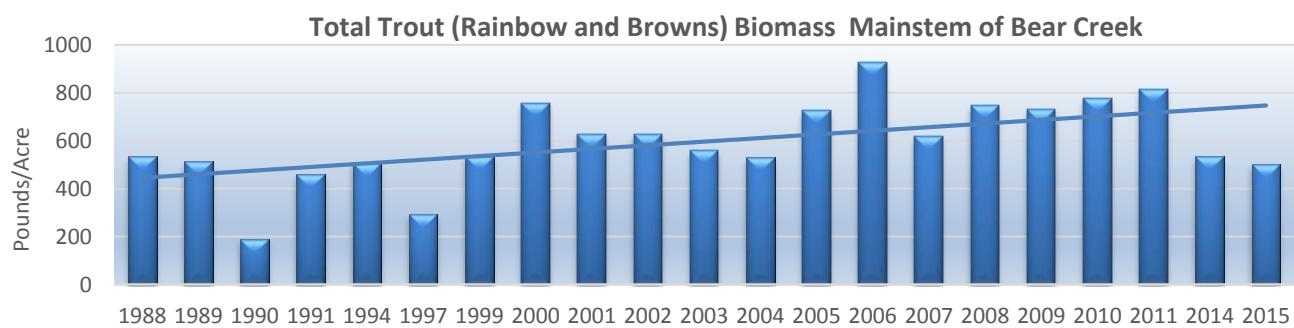


Figure 7 Total Trout Pounds per Acre from 1988-2015

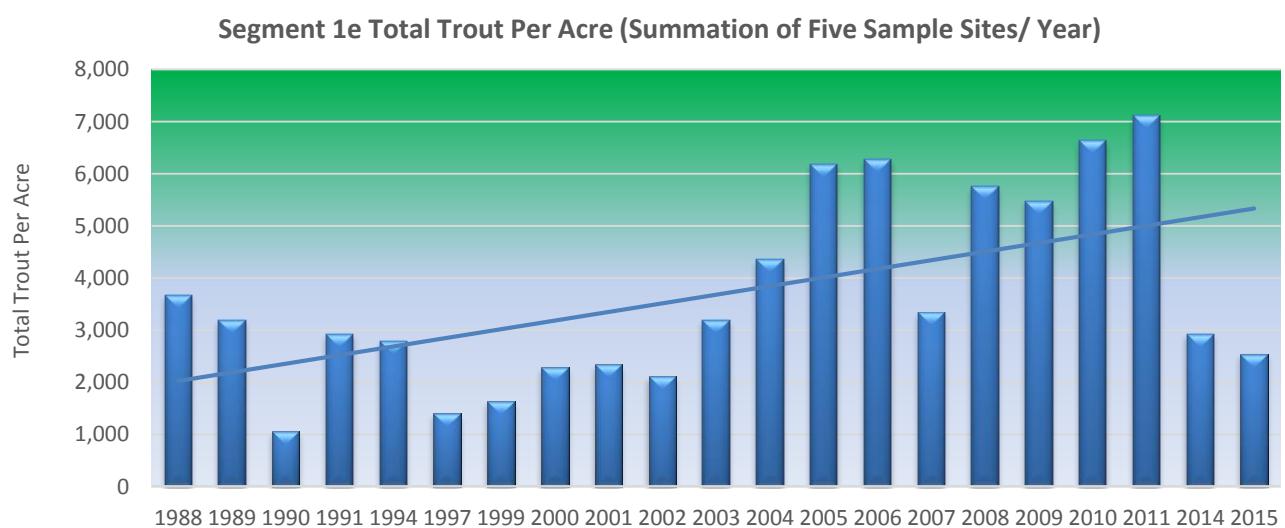


Figure 8 Segment 1e Total Trout per Acre from 1988-2015

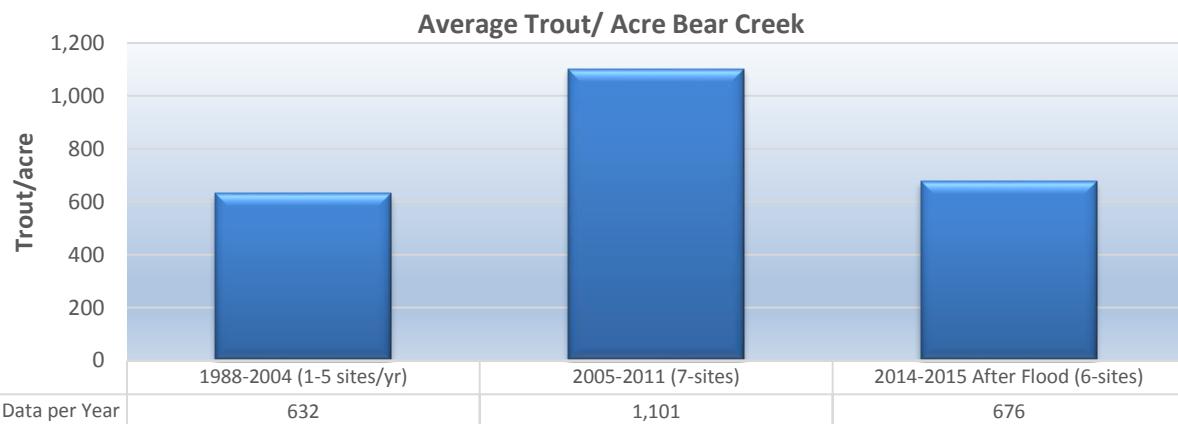


Figure 9 Average Trout per Acre after 2013 Flooding Event

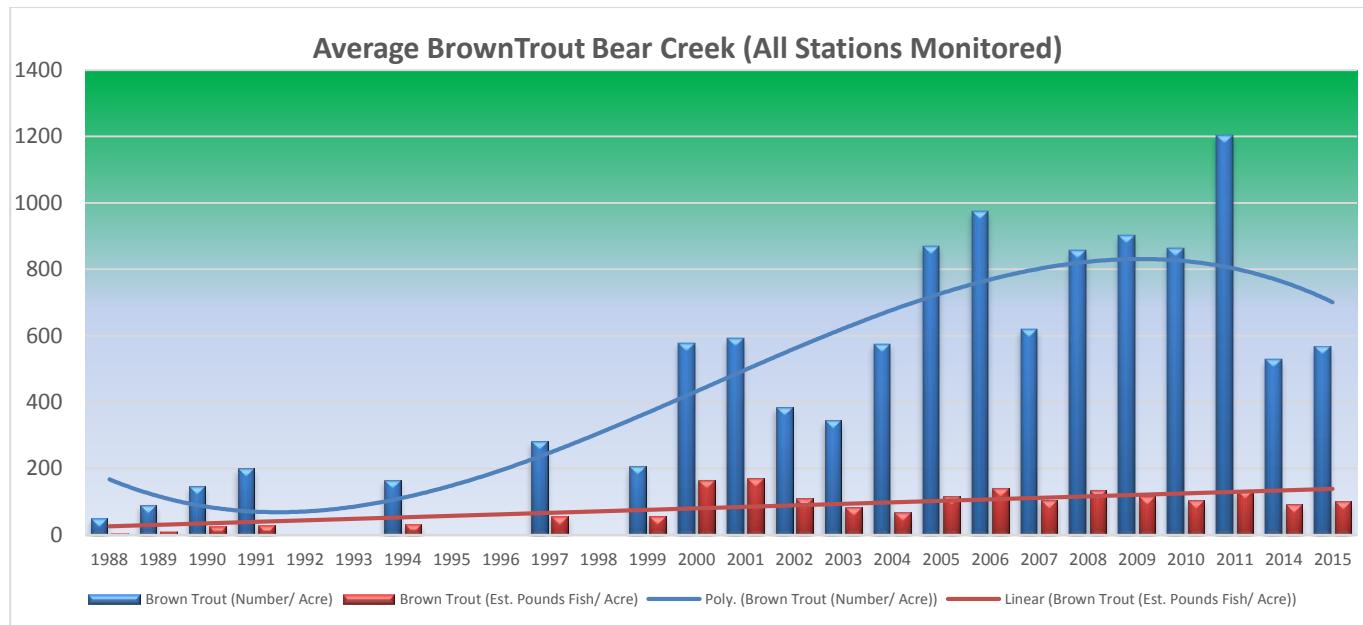


Figure 10 Average Brown Trout Trends

Brown Trout Station Trends

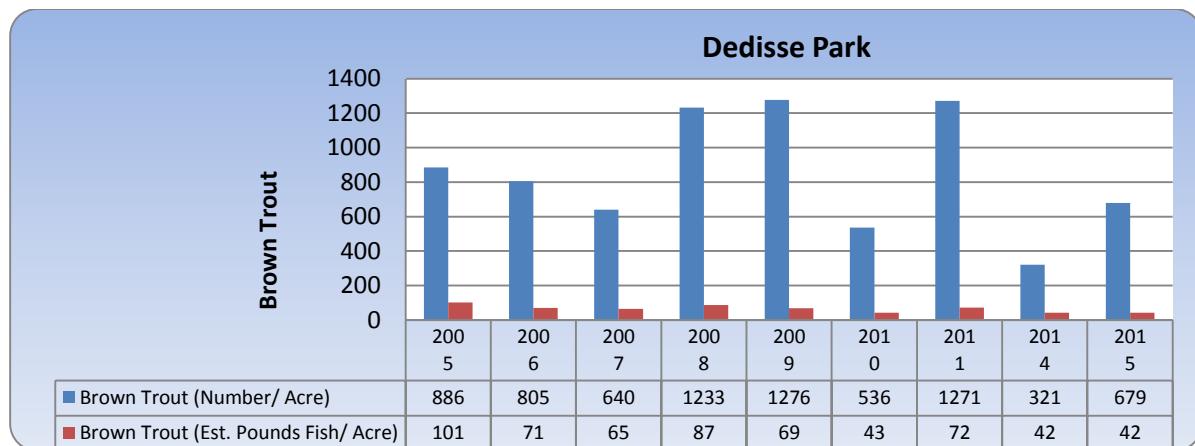
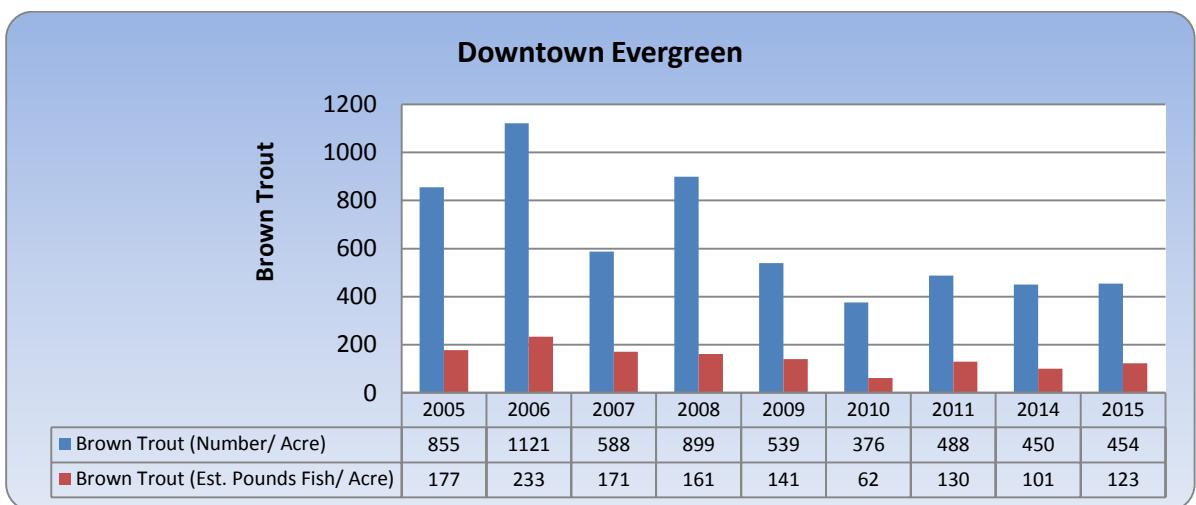
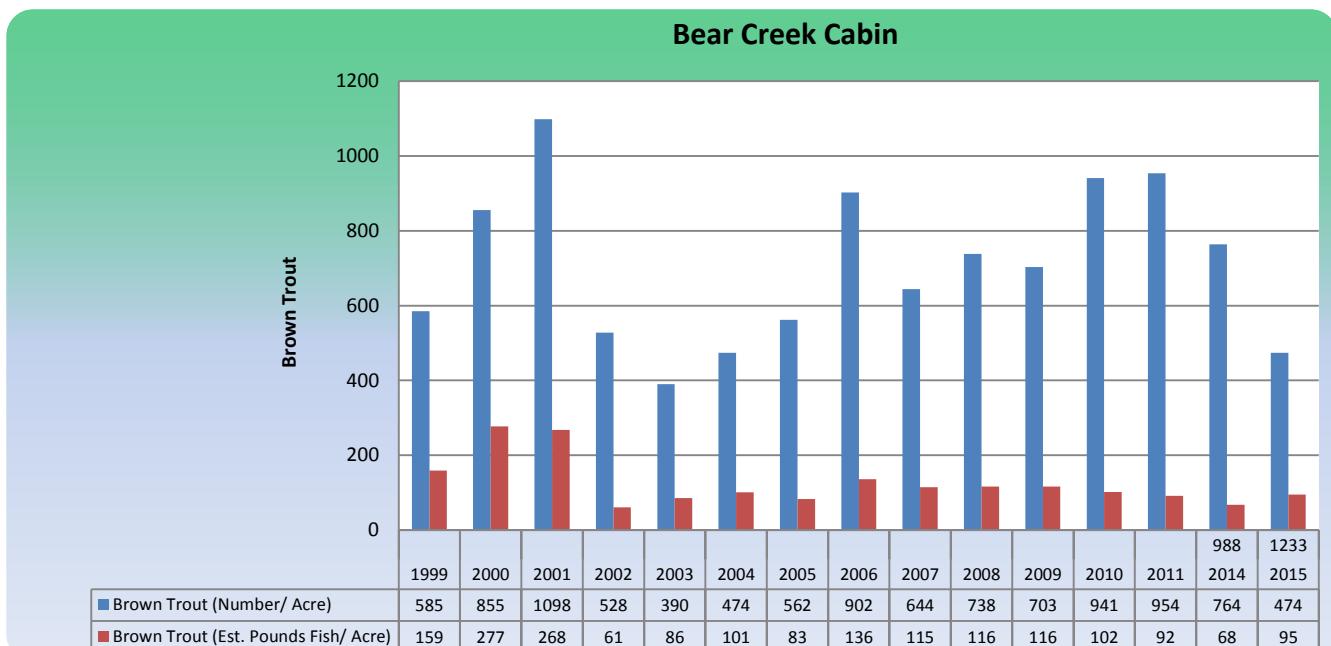
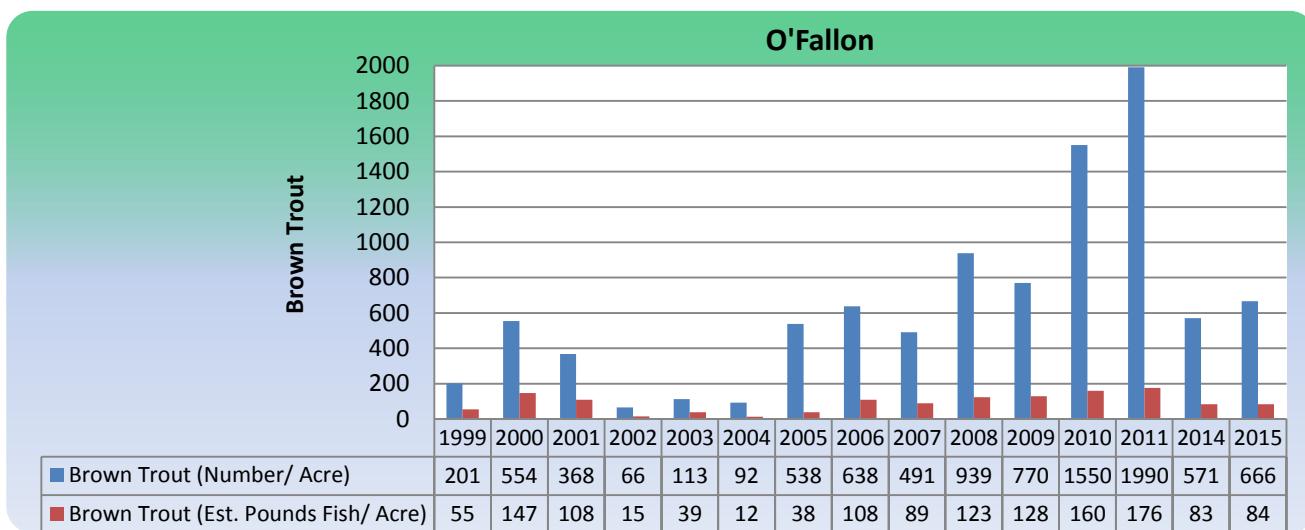
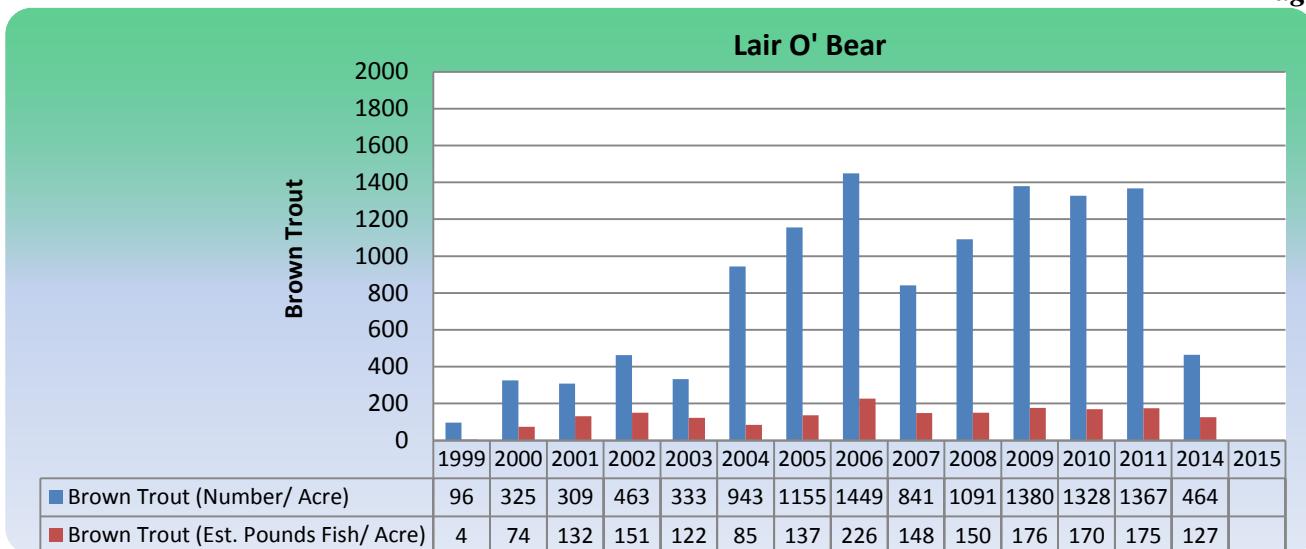
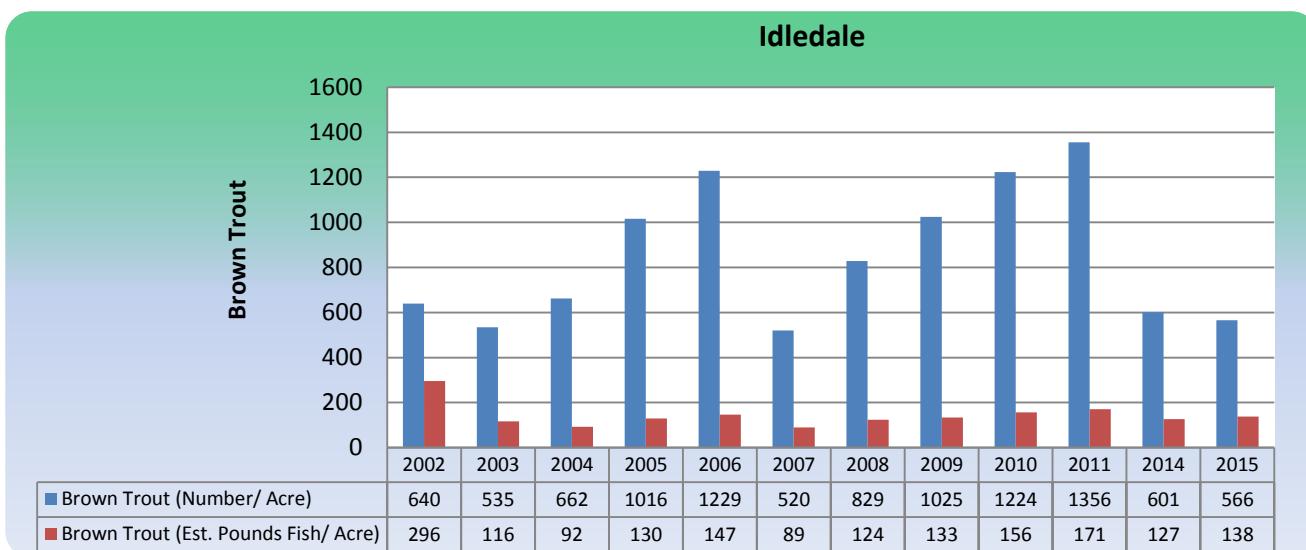


Figure 11 Dedisse Park Trend

**Figure 12 Downtown Evergreen Trend****Figure 13 Bear Creek Cabin Trend****Figure 14 O'Fallon Trend**

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