

Table 1. Striped Bass electrofishing mean CPUE (\pm SE) for 2010-2014 in the Cape Fear River. Buckhorn Tailrace was sampled only in 2014.

Sites	2010	2011	2012	2013	2014
Lock and Dam 1	19.5 (6.6)	16.5 (6.8)	9.6 (3.2)	31.6 (7.9)	27.6 (8.3)
Lock and Dam 2	12.7 (4.3)	10.3 (2.6)	1.6 (1.1)	2.7 (0.7)	6 (1.7)
Lock and Dam 3	13.2 (3.2)	4.3 (1.2)	12.8 (3.5)	3.7 (1.2)	7.5 (3.1)
Buckhorn Tailrace	na	na	na	na	5.1 (1.5)

Table 2. American Shad electrofishing mean CPUE (\pm SE) for 2010-2014 in the Cape Fear River. Buckhorn Tailrace was sampled only in 2014.

Sites	2010	2011	2012	2013	2014
Lock and Dam 1	30 (11.7)	20.8 (4.4)	56.8 (14.6)	44 (10.5)	61.5 (15.9)
Lock and Dam 2	27.3 (5.5)	24.3 (6.6)	51.6 (15.2)	60 (15.9)	74.3 (22.7)
Lock and Dam 3	29.7 (9.3)	24.8 (6.6)	86.8 (26.4)	45.1 (12.9)	69.3 (14.9)
Buckhorn Tailrace	na	na	na	na	22.9 (5.7)

Table 3. Catch rates for Striped Bass for 2010-2014 in the Cape Fear River. Buckhorn Tailrace was sampled only in 2014.

	2010	2011	2012	2013	2014	Total
Lock and Dam 1						
Males	26	12	18	51	41	148
Females	52	44	30	26	14	166
Unknown	4	11	0	5	50	70
Total	82	67	48	82	105	384
Lock and Dam 2						
Males	12	14	1	5	10	42
Females	36	20	6	1	4	67
Unknown	5	8	0	2	10	25
Total	53	42	7	8	24	134
Lock and Dam 3						
Males	27	14	36	10	20	107
Females	28	6	30	2	1	67
Unknown	1	0	0	1	6	8
Total	56	20	66	13	27	182
Buckhorn Tailrace						
Males					12	12
Females					0	0
Unknown					0	0
Total					12	12
Total						
Males	65	40	55	66	83	
Females	116	70	66	29	19	
Unknown	10	19	0	8	66	
Total	191	129	121	103	168	

Table 4. Catch rates for American Shad for 2010-2014 in the Cape Fear River. Buckhorn Tailrace was sampled only in 2014.

	2010	2011	2012	2013	2014	Total
Lock and Dam 1						
Males	64	56	113	119	192	544
Females	26	27	37	57	192	339
Total	90	83	150	176	384	883
Lock and Dam 2						
Males	67	67	102	167	163	566
Females	15	27	27	103	176	348
Total	82	94	129	270	339	914
Lock and Dam 3						
Males	82	80	181	146	181	670
Females	7	19	36	57	170	289
Total	89	99	217	203	351	959
Buckhorn Tailrace						
Males					34	34
Females					46	46
Total					80	80
Total						
Males	213	203	396	432	536	
Females	48	73	100	217	538	
Total	261	276	496	649	1074	

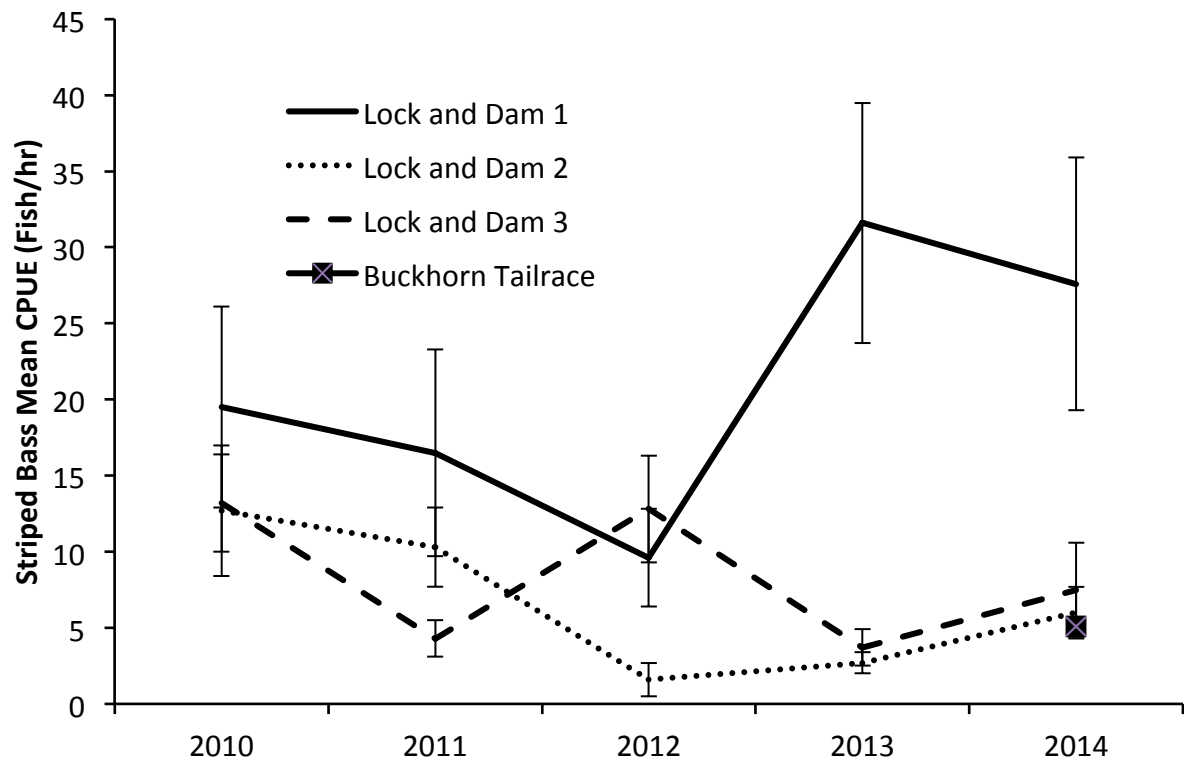


Figure 1. Striped Bass mean CPUE for 2010-2014 in the Cape Fear River.

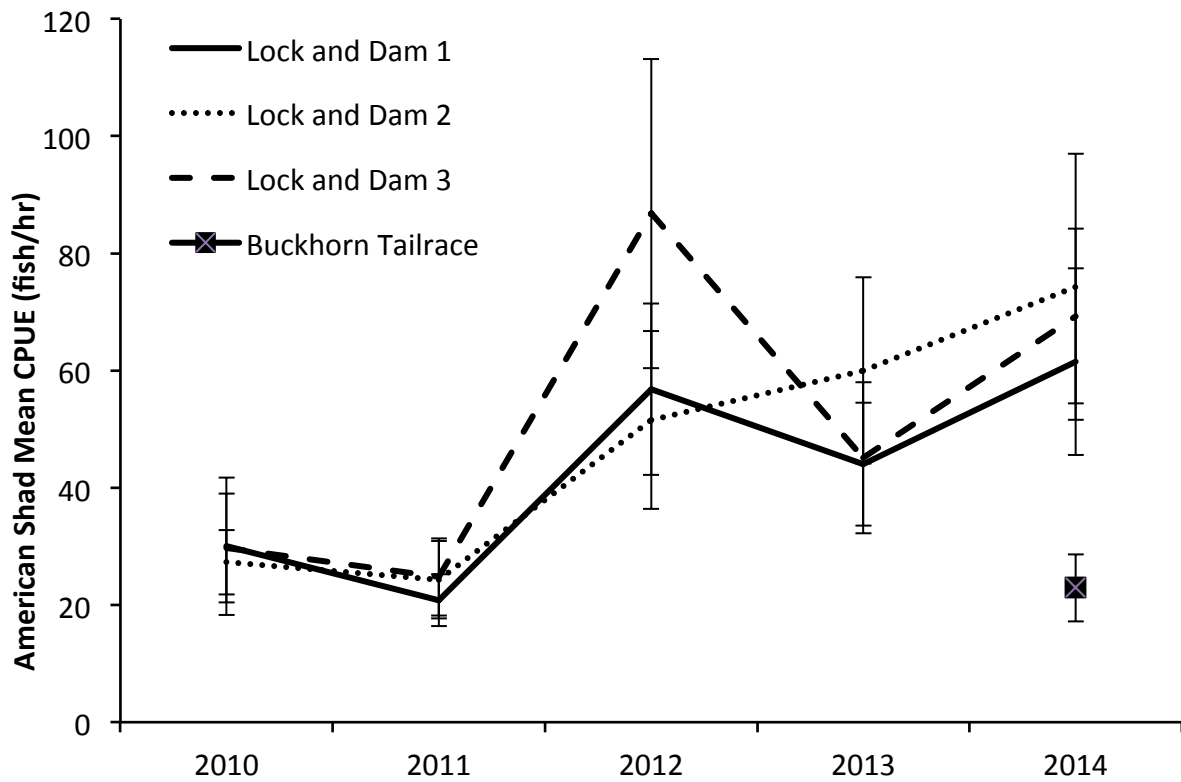


Figure 2. American Shad mean CPUE for 2010-2014 in the Cape Fear River.

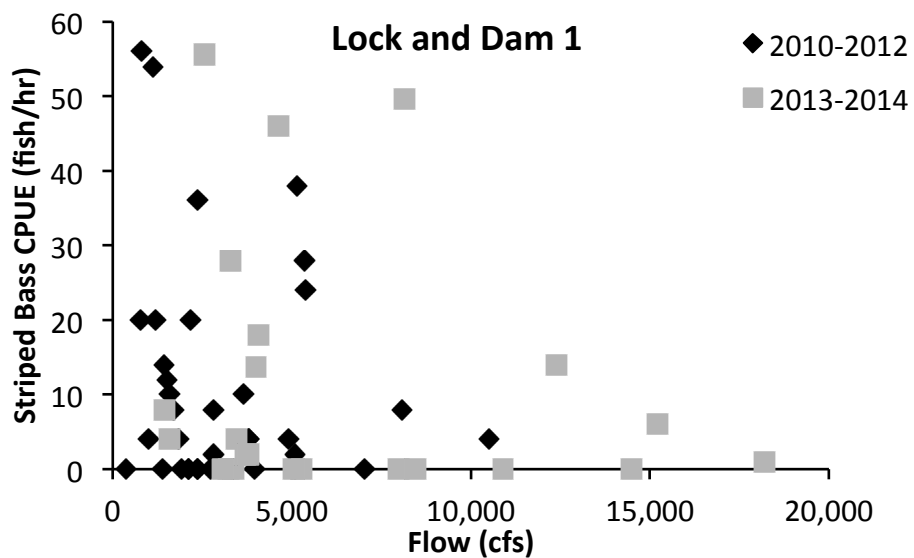


Figure 3. Striped Bass CPUE at different flow conditions from 2010-2014 for Lock and Dam 1.

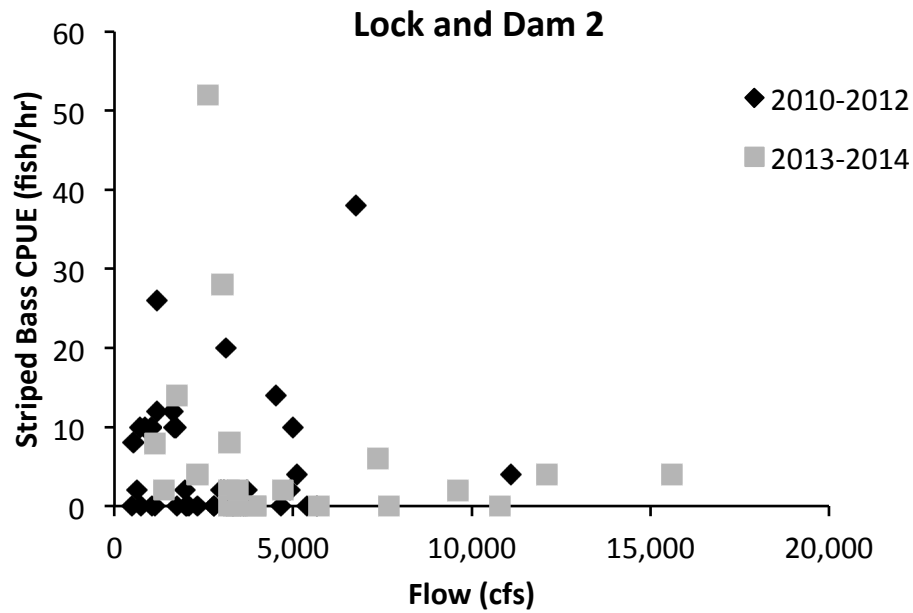


Figure 4. Striped Bass CPUE at different flow conditions from 2010-2014 for Lock and Dam 2.

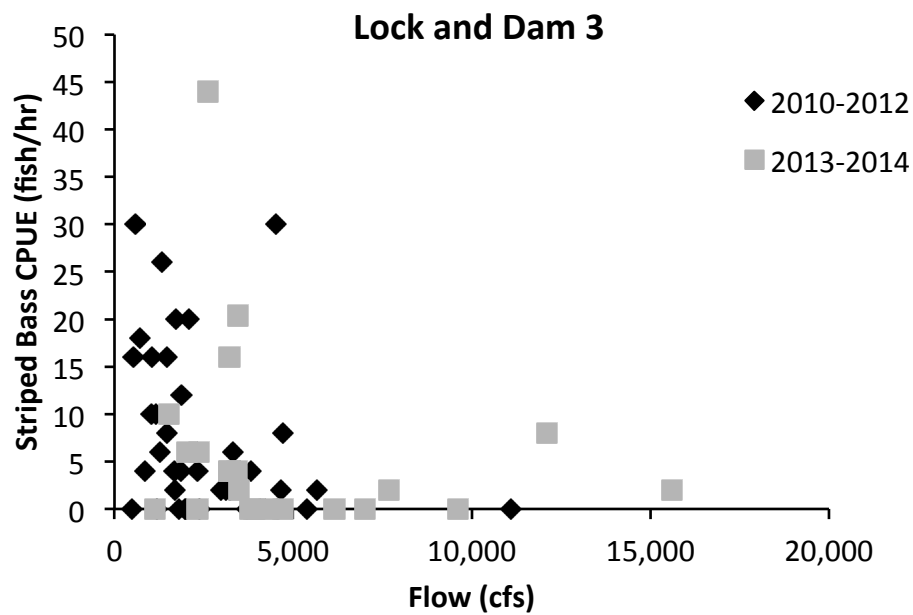


Figure 5. Striped Bass CPUE at different flow conditions from 2010-2014 for Lock and Dam 3.

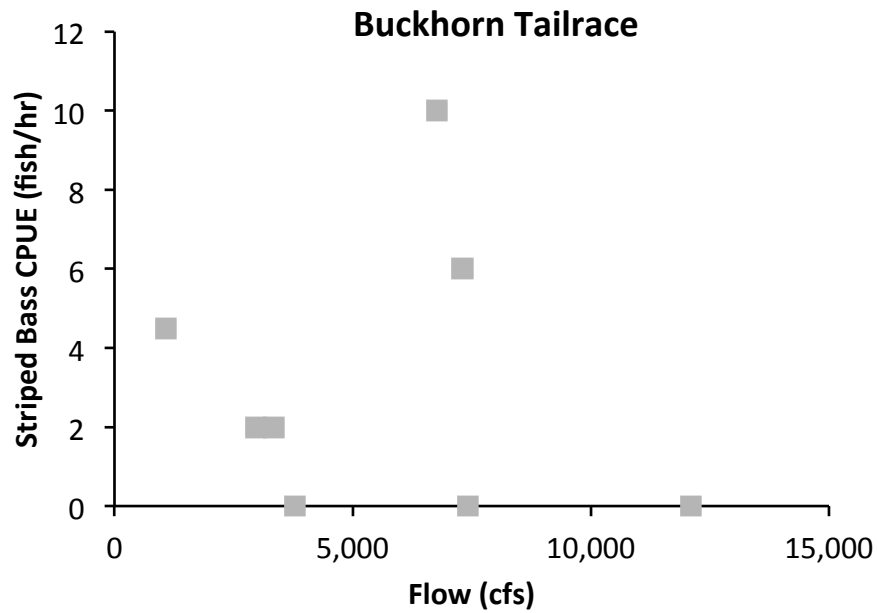


Figure 6. 2014 Striped Bass CPUE at different flow conditions for Buckhorn Tailrace.

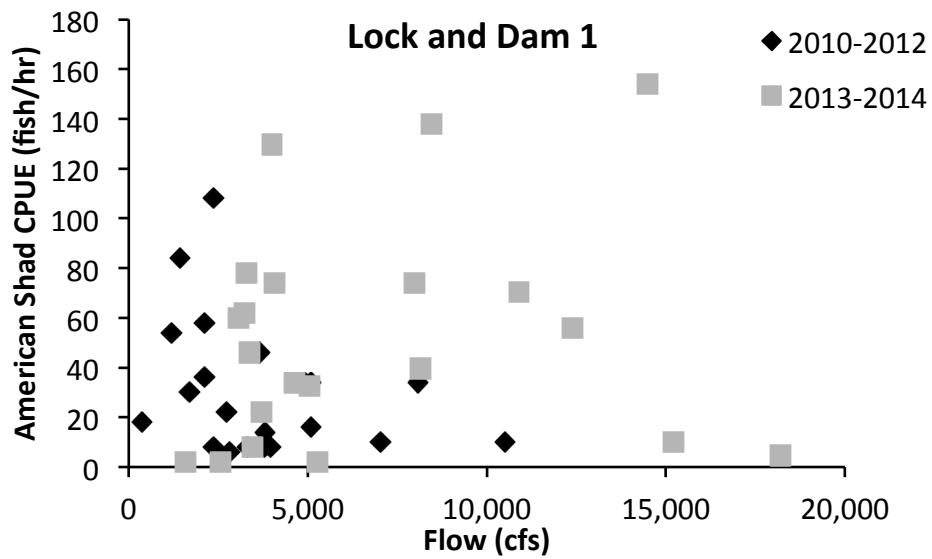


Figure 7. American Shad CPUE at different flow conditions from 2010-2014 for Lock and Dam 1.

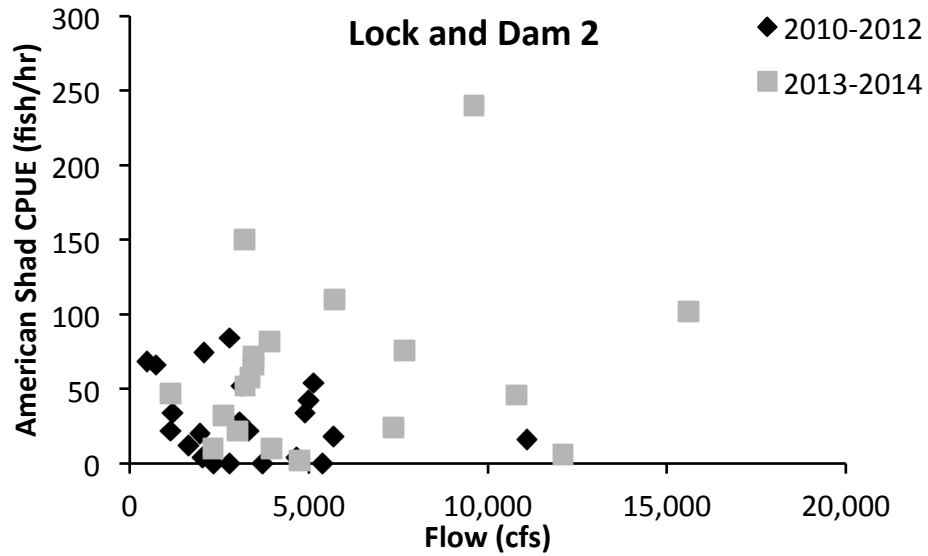


Figure 8. American Shad CPUE at different flow conditions from 2010-2014 for Lock and Dam 2.

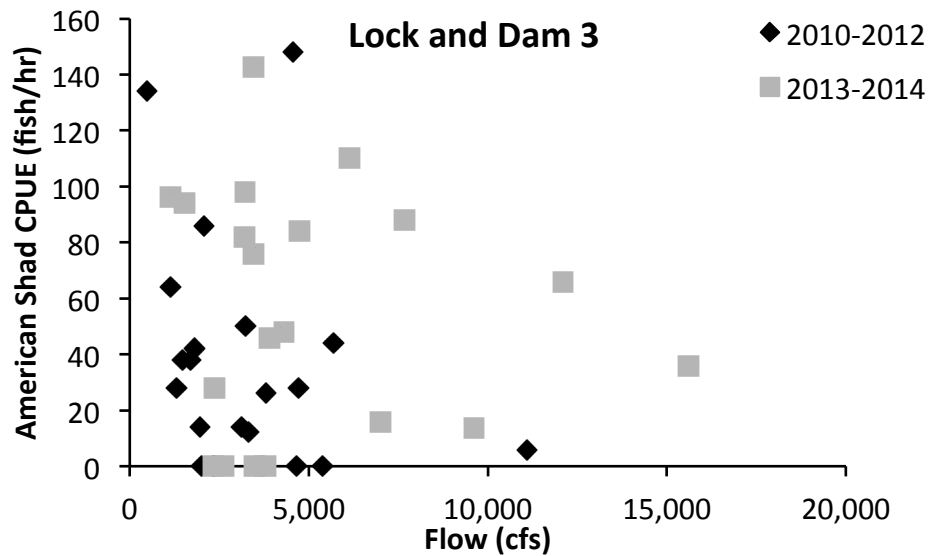


Figure 9. American Shad CPUE at different flow conditions from 2010-2014 for Lock and Dam 3.

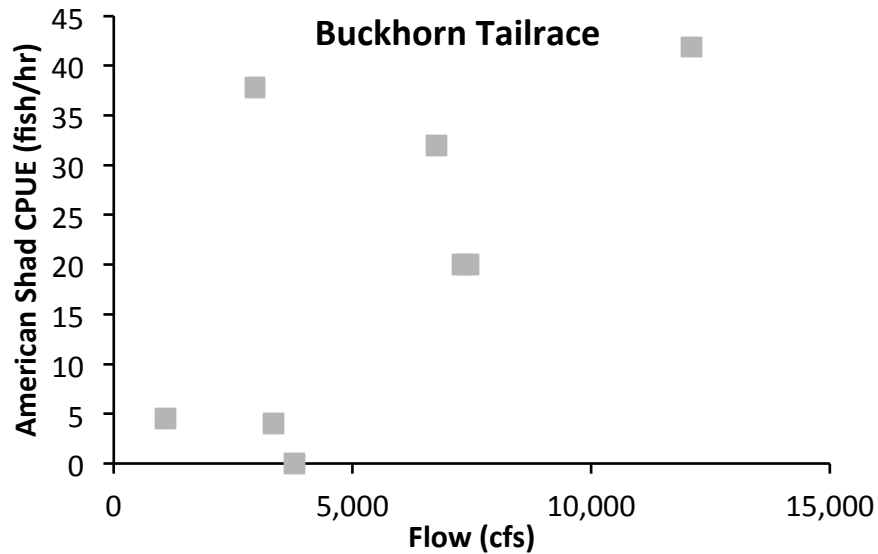


Figure 10. 2014 American Shad CPUE at different flow conditions for Buckhorn Tailrace.

Additional information

- Only 14 Hickory Shad caught since 2010; 5 from 2010-2012 and 9 from 2013-2014
- Documented one phase II (6-8 in) Striped Bass that was eaten by a Flathead Catfish

Year	BBH collection sites		
	Lock and Dam 1	Lock and Dam 2	Lock and Dam 3
2006	4	5	0
2007	15	0	0
2008	20	9	2
2009	2	2	2
2010	0	1	1
2011	2	0	0
2012	6	0	0
2013	3	0	0
2014	20	11	0

- We did see some Blueback Herring in our samples this year upstream to Lock and Dam 2 but not sure what role the ramp played at LD1.
- No Alwife collected