

# Fisheries Projects on Locustville Pond



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LPIA meeting  
23-April-2017

# Black Bass

- Develop a management plan for black bass in Rhode Island waters.
- Determine which water systems may benefit from alternative management strategies in the place of the current statewide regulations.



# RI Fish & Wildlife Bass Projects

- Pond and Stream Survey
- LMB Management Plan-State Wide Options
- Issue Tournament Permits

## Primary Bass Sampling Methods

- Bass Tournament Weigh-Ins
- Electrofishing



# Club Participation



# Tournament Weigh-Ins



# Electrofishing



# Electrofishing



# Catch Rates

- Angler CR
  - Example
  - 6am to 2pm=8hrs
  - 10 anglers=80hrs
  - 80 bass= CR of 1.0
  - CR 0.50=1 bass per 2hr
- Electrofishing CR
  - Example
  - 3,600sec=1hr
  - CR10.0=10 bass per hr





# Types of Biological Data Collected

- Age Data
- Growth Rates
- Bass & Forage Species



# Aging Techniques



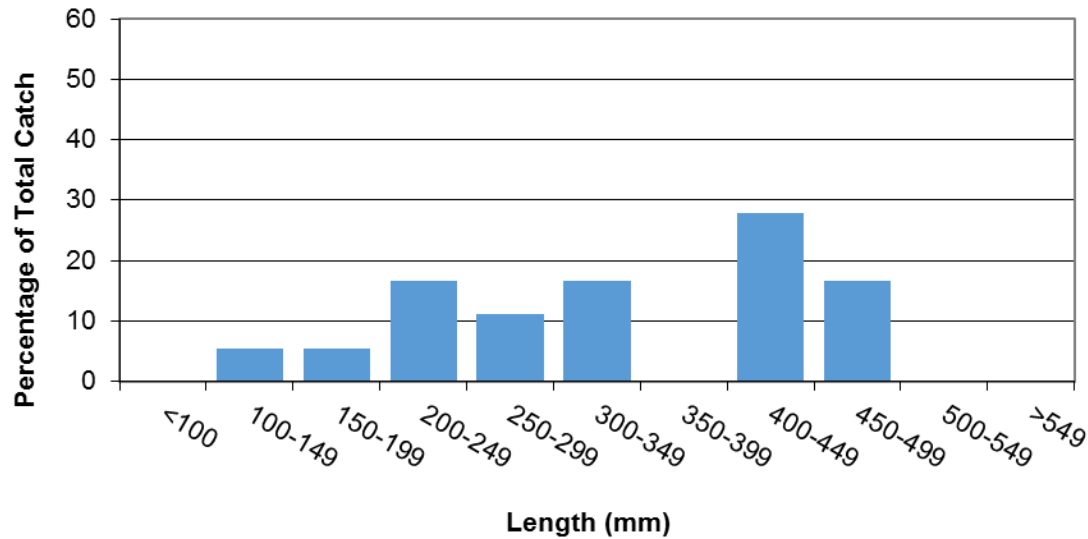
# Growth Rate Summary

- Typically 12" Bass is 4 to 5 years old
- Fastest Growth Rates between ages 1 & 2, followed by 2 & 3
- Five and Six lb. Bass= 9-12



# Locustville 2016 Electroshocking Data

Locustville Electrofishing



Locustville	Time
10/11/2016	2454
TL (mm)	Wt (lbs)
0.681667	
402	2.00
409	2.22
491	4.31
421	2.41
188	0.23
145	0.09
212	0.28
218	0.32
248	0.49
420	2.47
451	2.73
343	1.12
307	0.96
316	0.88
288	0.52
465	2.96
290	0.81
409	2.08

Locustville	Time	0.681667
Bin	Frequency	CR
203	2	2.933985
304	5	7.334963
380	3	4.400978
456	6	8.801956
507	2	2.933985
558	0	0
>558	0	0

CR >12"	
Gorton	10.305
Smith & Sayles	8.250
Schoolhouse	9.848
Deep	11.949
Barber	9.898
Locustville	16.137
Warwick	3.599
Burlingame	18.569



# Management Plan for Black Bass in RI waters

- Determine which water systems may benefit from alternative management strategies in place of current statewide regulations (5 fish, 12"min).
- Goal is to enhance the quality of bass angling in RI waters.
- Site Specific



# Fisheries Investigation



## What's In the Pond?

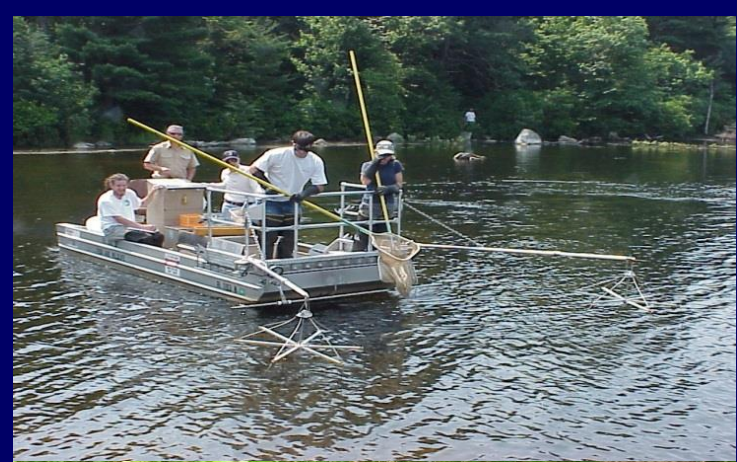
General Inventory  
of Species

Species  
Abundance

YOY Abundance



## Boat Shocking



## Backpack Shocking

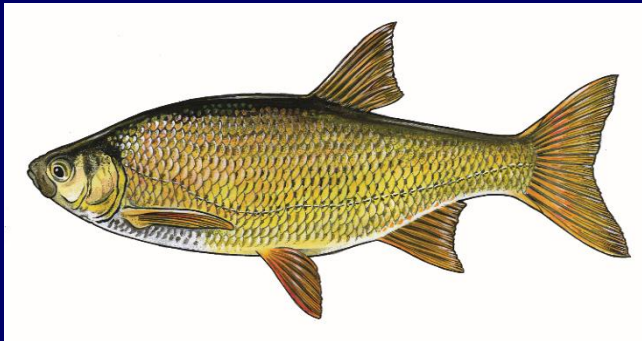
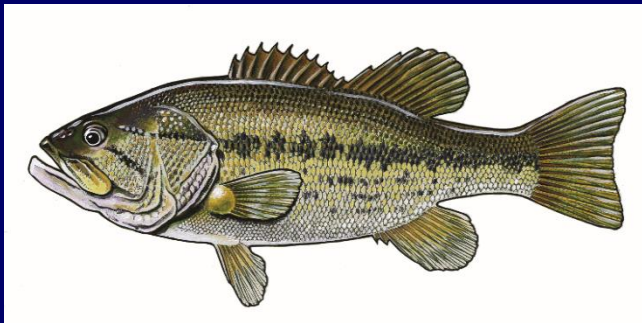
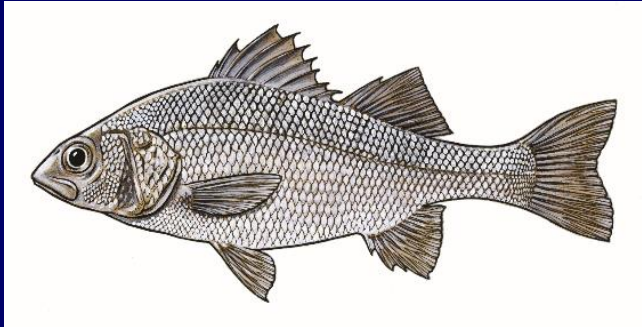


## Seining





# Locustville Pond Inventory



- Bluegill
- Brown Bullhead
- Chain Pickerel
- Creek Chubsucker
- American Eel
- Golden Shiner
- Largemouth Bass
- Pumpkinseed
- Red Breasted Sunfish
- Swamp Darter
- White Sucker
- Yellow Perch
- Black Crappie
- White Perch



•1999

•Time:5345

Fish Species	Total Length (mm)			Number Species per Sample	Subsample Size	Total Count
	Average	Minimum	Maximum			
blgl	160.1	36	222	12	32	110
brbull	322.0	322	322	12		1
chnpick	309.7	256	359	12		7
crkchbskr	87.0	87	87	12		1
eel	375.0	320	430	12		4
gldshnr	200.8	101	244	12		9
<b>lmb</b>	<b>254.1</b>	<b>94</b>	<b>344</b>	<b>12</b>		<b>28</b>
pmpknsd	170.9	40	197	12	32	52
rdbrst	170.4	126	190	12		10
swmpdtr	33.0	33	33	12		1
wtsuck	445.1	361	521	12		11
yperch	158.8	23	263	12	32	142

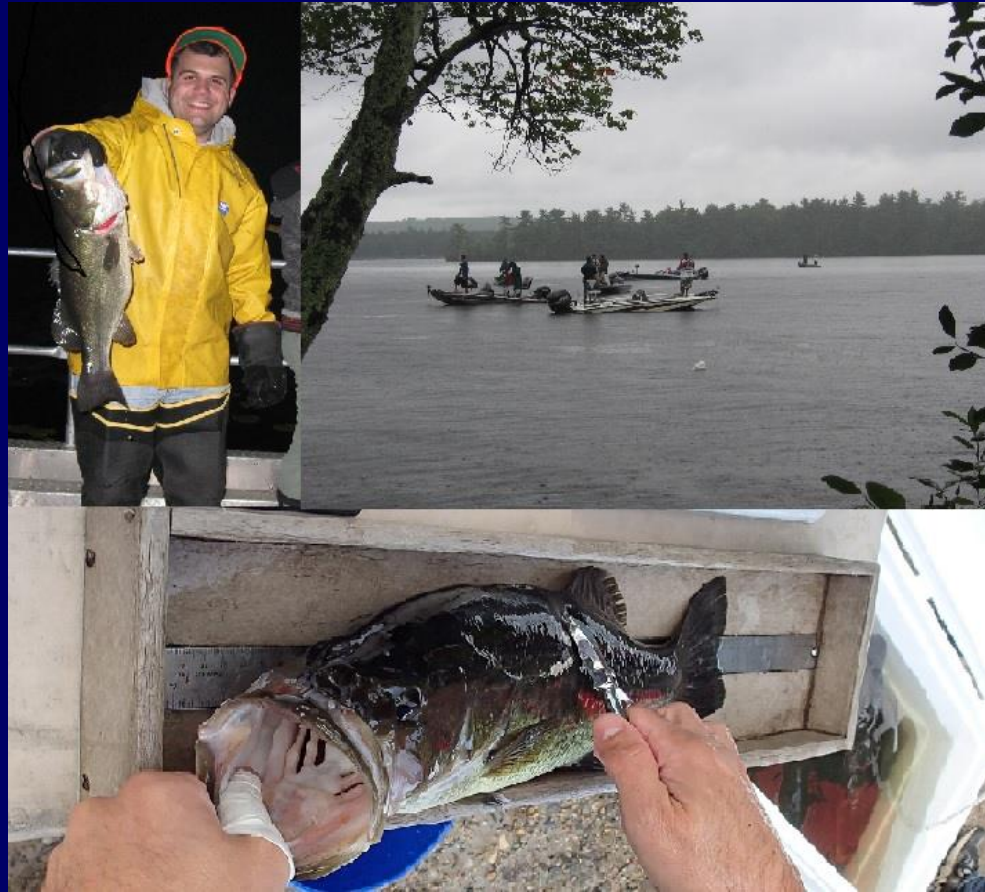
•2016

•Time:2454

blgl	167.3871	90	230	13	31	73
blkcrp	360	360	360	13	1	1
blkcrp yoy	0	0	0	13	35	35
brbull	196.5	92	266	13	4	4
chnpick	276.7143	118	406	13	14	14
crkchbskr	231	206	256	13	2	2
eel	491.1667	395	620	13	6	6
gldshnr	156.2667	88	244	13	30	48
<b>lmb</b>	<b>307.1429</b>	<b>145</b>	<b>465</b>	<b>13</b>	<b>14</b>	<b>14</b>
lmb yoy	0	0	0	13	51	51
pmpknsd	184.2333	93	205	13	30	31
rdbrst	185	185	185	13	1	1
wperch	217.5	115	320	13	2	2
wtsuck	366.75	255	548	13	4	4
yperch	160.9667	115	250	13	30	111



# Thank You!



♦ Artwork by Robert Golder

