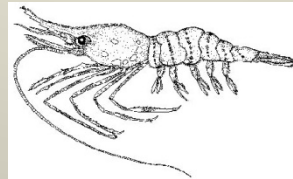


Prince William Sound (PWS) Shrimp Pot Fisheries



by

Jan Rumble
Division of Commercial Fisheries

and

Jay Baumer
Division of Sport Fish



This report can be found in RCX Tab X

Outline

- Life History
- Survey
- Historical commercial fishery
- Guideline Harvest Level (GHL) Development
- Shrimp Pot Fisheries
 - Commercial
 - Proposals
 - Noncommercial
 - Proposals

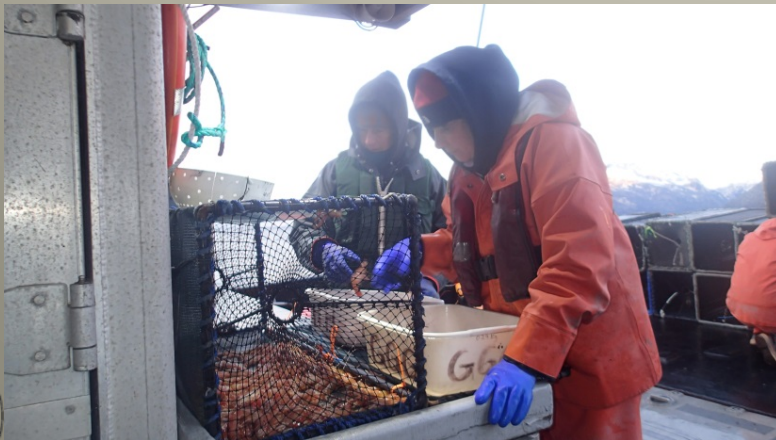


Spot Shrimp Life History

- Life span – 7 to 10 yrs
- Sexually mature – 3 yrs
- Protandrous hermaphrodites
 - Begin life as males
 - Become female later in life at larger size (~35 mm carapace length)
- Females have eggs Oct - March
- Concentrated at ~ 60 fa – range 2-250 fa



PWS Shrimp Pot Survey



PWS Shrimp Pot Survey

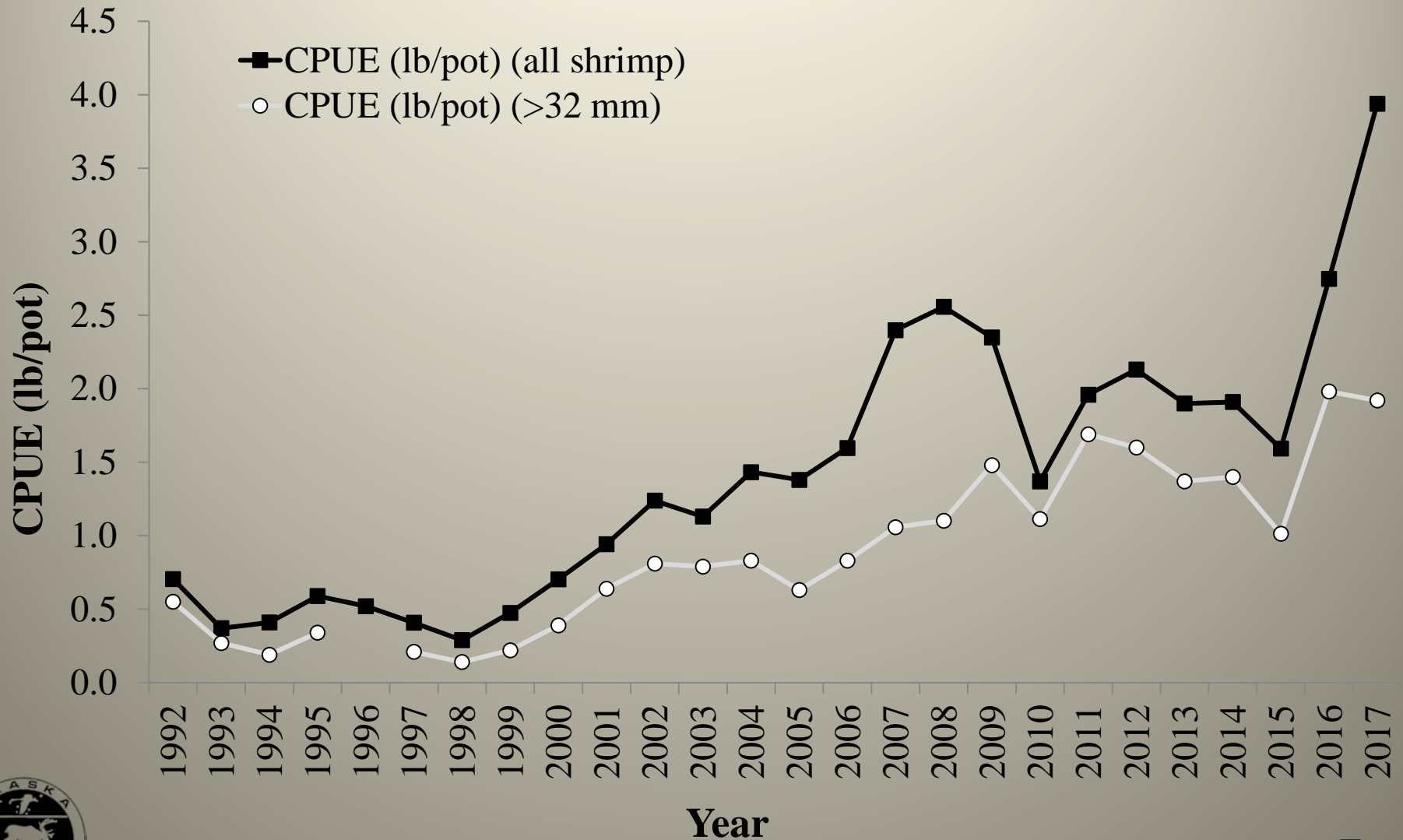
- R/V Solstice
- Annually since 1992
- October 12-23
- 11 Survey stations
- ~350 pots each survey
- Spot shrimp sampling
 - Biological information
 - Catch per unit effort
- Bycatch sampling



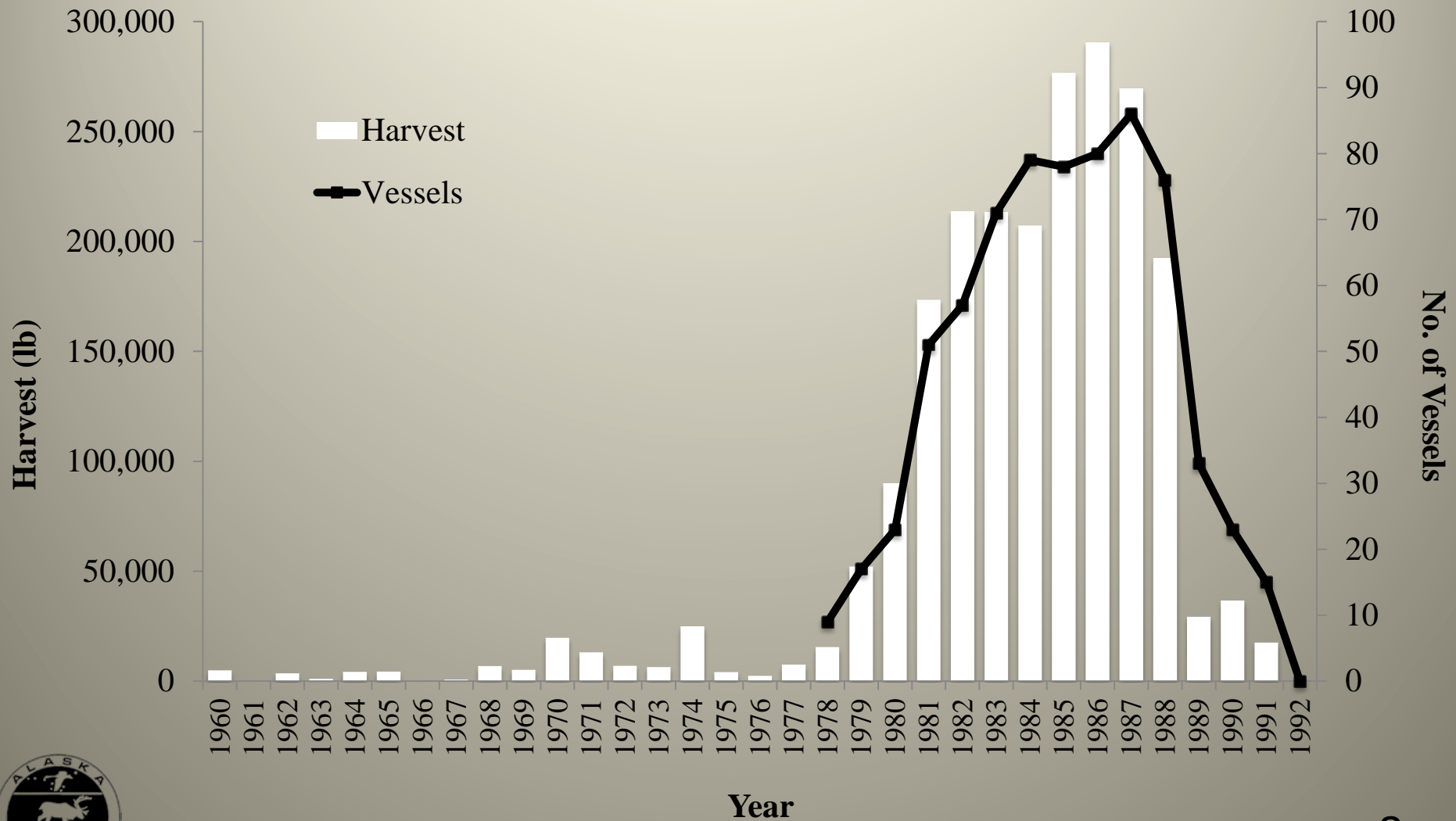
PWS Shrimp Pot Survey Locations



PWS Spot Shrimp Survey Results



PWS Commercial Shrimp Pot Historical Fishery



Guideline Harvest Level (GHL) Development

Surplus Production Model

- Relative survey abundance
- Survey CPUE
- Total catch weight
- Previous year's harvest from commercial and noncommercial fisheries

Model provides total allowable harvest (TAH) and GHLs for commercial (40%) and noncommercial fisheries (60%)



PWS Commercial Shrimp Pot Fishery

Current Management

- 1) Open access fishery
- 2) Total allowable harvest (TAH) must be at least 110,000 lb for a commercial fishery to open
- 3) Allocation is 40% of TAH
- 4) Season dates April 15 - September 15
- 5) Registration deadline April 1
- 6) Gear limits (100 pot maximum)
 - Determined by number of vessel registrants
 - 20 - 50 pots since 2010, can change inseason



PWS Commercial Shrimp Pot Fishery

Current Management

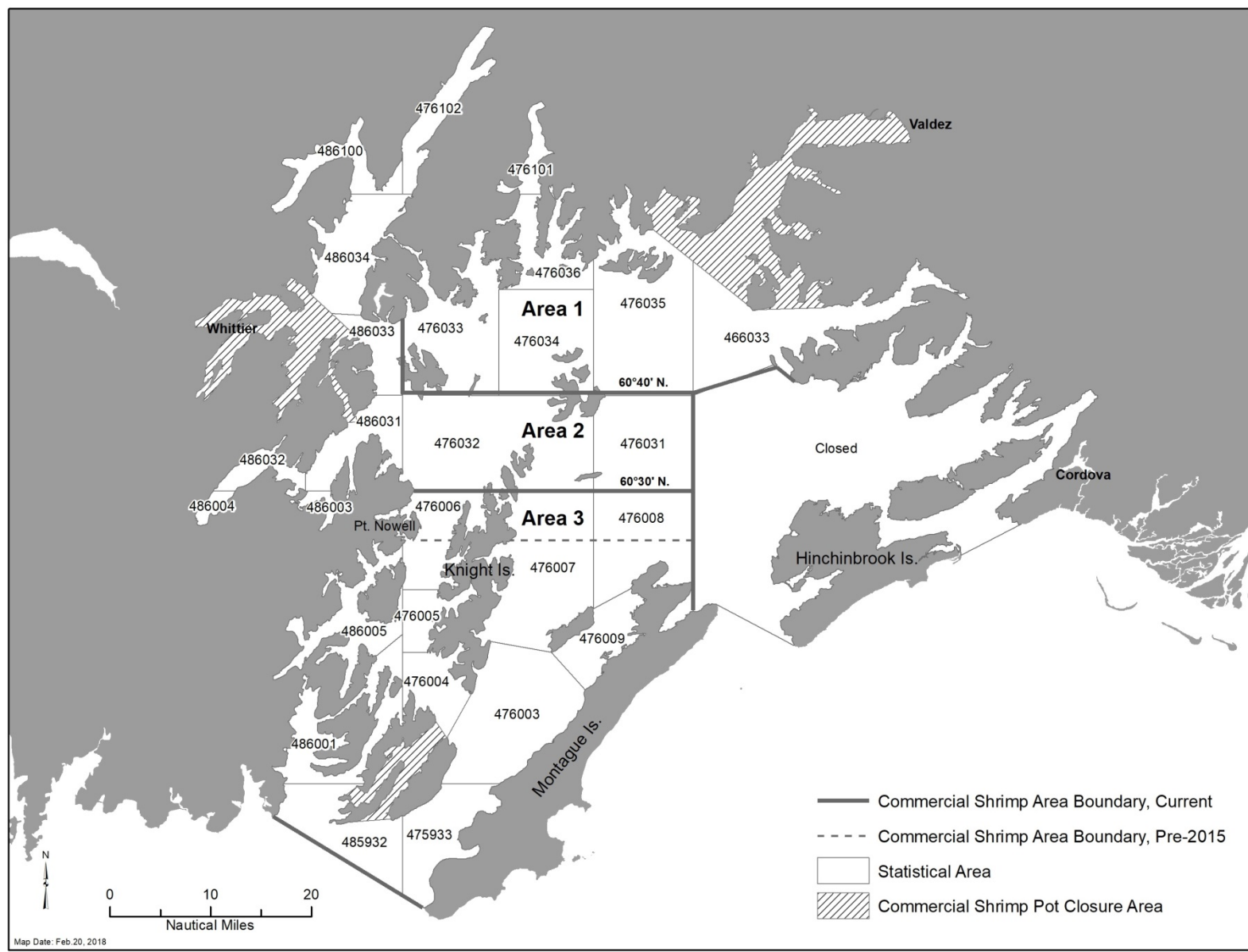
- 7) Limited hours of gear operation
- 8) Stringent reporting requirements
- 9) Triennial rotation of fishing areas
- 10) Registration is exclusive
- 11) No more than 50% of GHL from any one statistical area



PWS Commercial Shrimp Pot Fishery Fleet



PWS Commercial Shrimp Pot Fishery



PWS Commercial Shrimp Pot Fishery

Harvest and Effort

Area 1				
	2010	2013	2016	Average
Harvest	45,349	61,644	48,349	51,774
Pot pulls	18,025	34,804	27,360	26,730
CPUE	2.52	1.77	1.77	2.02
Area 2				
	2011	2014	2017	Average
Harvest	52,550	68,938	67,421	62,970
Pot pulls	29,580	41,670	45,261	38,837
CPUE	1.78	1.65	1.49	1.64
Area 3				
	2012	2015	2018	Average
Harvest	21,561	23,138	na	22,350
Pot pulls	19,644	20,004	na	19,824
CPUE	1.10	1.16	na	1.13



PWS Commercial Shrimp Pot Fishery

Commercial				
Year	TAH (lb)	GHL	Harvest (lb)	% of GHL
2010	137,500	55,000	45,349	82%
2011	131,900	52,760	52,694	100%
2012	128,100	51,240	21,561	42%
2013	165,750	66,300	61,644	93%
2014	166,500	66,600	68,464	103%
2015	167,000	67,000	23,138	35%
2016	117,653	47,061	48,346	103%
2017	167,000	67,000	67,421	101%



Proposals

Commercial Shrimp Pot Management

- Season dates – 219, 220
- Amend statistical area groupings – 221
- Change area rotation system – 222
- Changes to Total Allowable Harvest (TAH) – 223, 224, 225



Proposals

Scallops

- Personal use - 207
- Commercial - 215

Commercial Shrimp Trawl Management

- Open closed areas - 226
- Eliminate fall/winter season - 227



Thank You

Recent Survey Crew: Karen Swartzbart, Elisa Russ, Chris Russ, Brittany Blain-Roth, Anne Schaefer (PWSSC), Josh Mumm, Mike Byerly, and Ken Goldman

R/V Solstice Crew: Dave Anderson and James Wiese



PWS Noncommercial Shrimp Pot Fishery



PWS Noncommercial Shrimp Pot Fishery

Management Components

- Subsistence & Sport
- All saltwater (Except for Nonsubsistence Area)
- No threshold
- GHL is 60% of TAH
- Season dates: April 15 through September 15
- 5 pots/person/vessel
- Harvest Recording Form
- Preseason Management



PWS Noncommercial Shrimp Permit

- Permit is required.
- Same permit for all noncommercial users.
- Permit is free & online.
- Must be filled out prior to leaving fishing site.
- Shrimp reported as gallons of whole shrimp.
- Required to report by Oct. 15.
- Reporting can be done online.

Alaska Department of Fish & Game
2017 Prince William Sound Shrimp Permit

☐ replacement for lost original

Last Name First Name Initial

Mailing Address

City State Zip Code Phone Number Sport Fishing License # Sport only ☐

Driver's License # State

E-Mail Address

Names Of Other Household Members (this permit may only be used by the permit holder or by individuals listed here)

This permit is valid for the period April 15th – September 15th, 2017

☐ You must have this permit with you while taking shrimp in the waters of Prince William Sound (from Cape Fairfield to Cape Suckling).
☐ See the Southcentral Sport Fishing Regulations for complete descriptions of shrimp pot regulations (including marking requirements).
☐ If you share pots with a friend or relative, be careful to report each harvest on only ONE permit.
☐ By signing this permit you agree to all conditions and terms of this fishery. See back side of permit for additional information.

☐ Harvest information must be recorded in ink below prior to leaving the fishing site, concealing the shrimp from view. Please continue on another piece of paper if you need more lines to report your harvest.
☐ You must submit a report even if you did not fish.
☐ Final report must be completed online or by submitting a hard copy of the permit in person or by mail to the address on the reverse side by October 15th, 2017.

Permit Holder Signature Date Vendor Vendor Signature

☐ Was this permit used to set shrimp pots in 2017? ☐ YES ☐ NO Number of lost shrimp pots

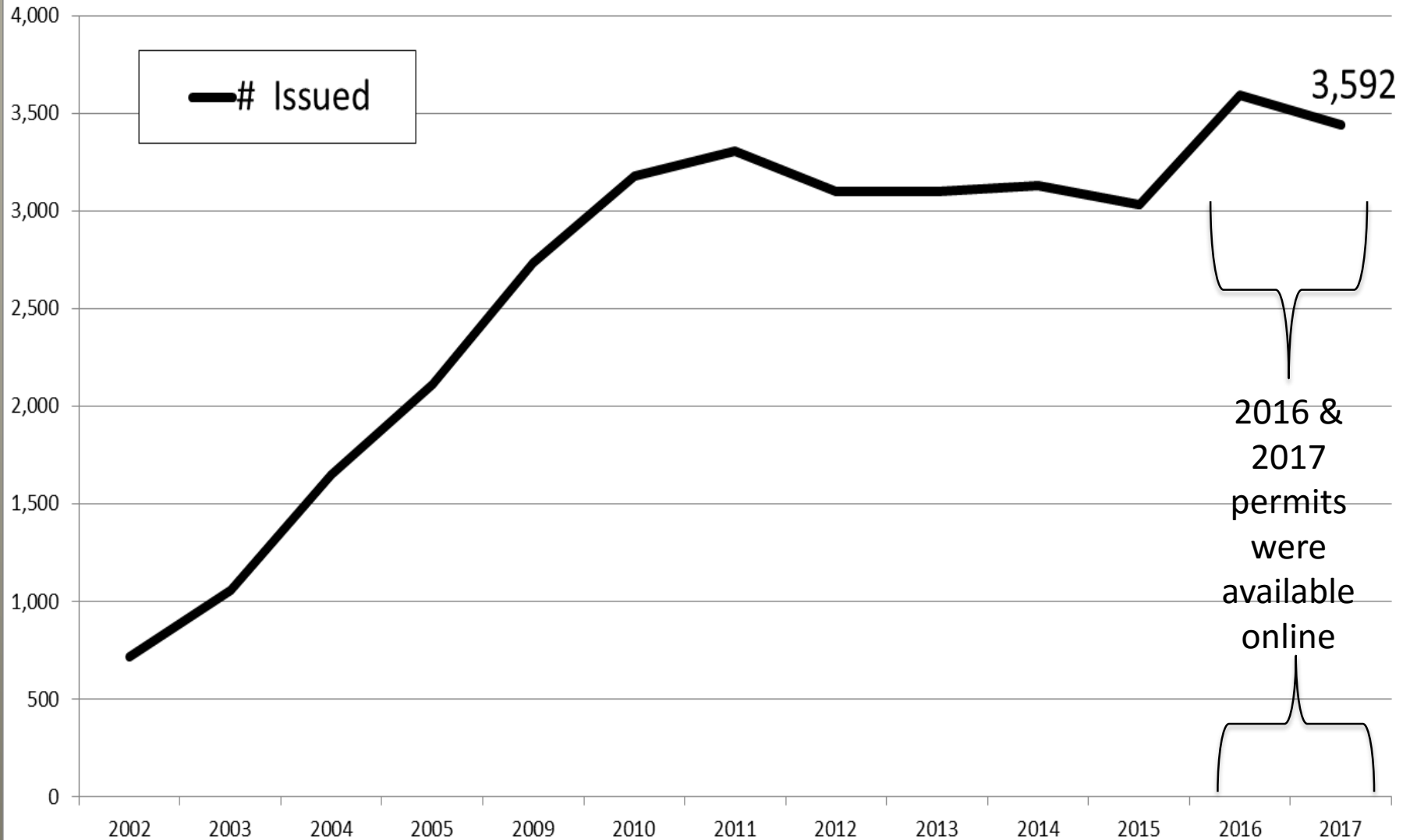
How to enter for gallons of harvested shrimp:
 Example: 0.5 = harvest 1/2 gallon whole shrimp (shrimp heads on)

DATE	LOCATION shrimp was harvested from in Prince William Sound	NUMBER OF POTS FISHED	TIME SOAKED	WHOLE SHRIMP HARVESTED
MM DD	Examples include: Agassiz Bay, 100 ft, 100 ft, 100 ft	Pots	Hours	Gallons
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2. <input type="text"/> / <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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4. <input type="text"/> / <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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9. <input type="text"/> / <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
10. <input type="text"/> / <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
11. <input type="text"/> / <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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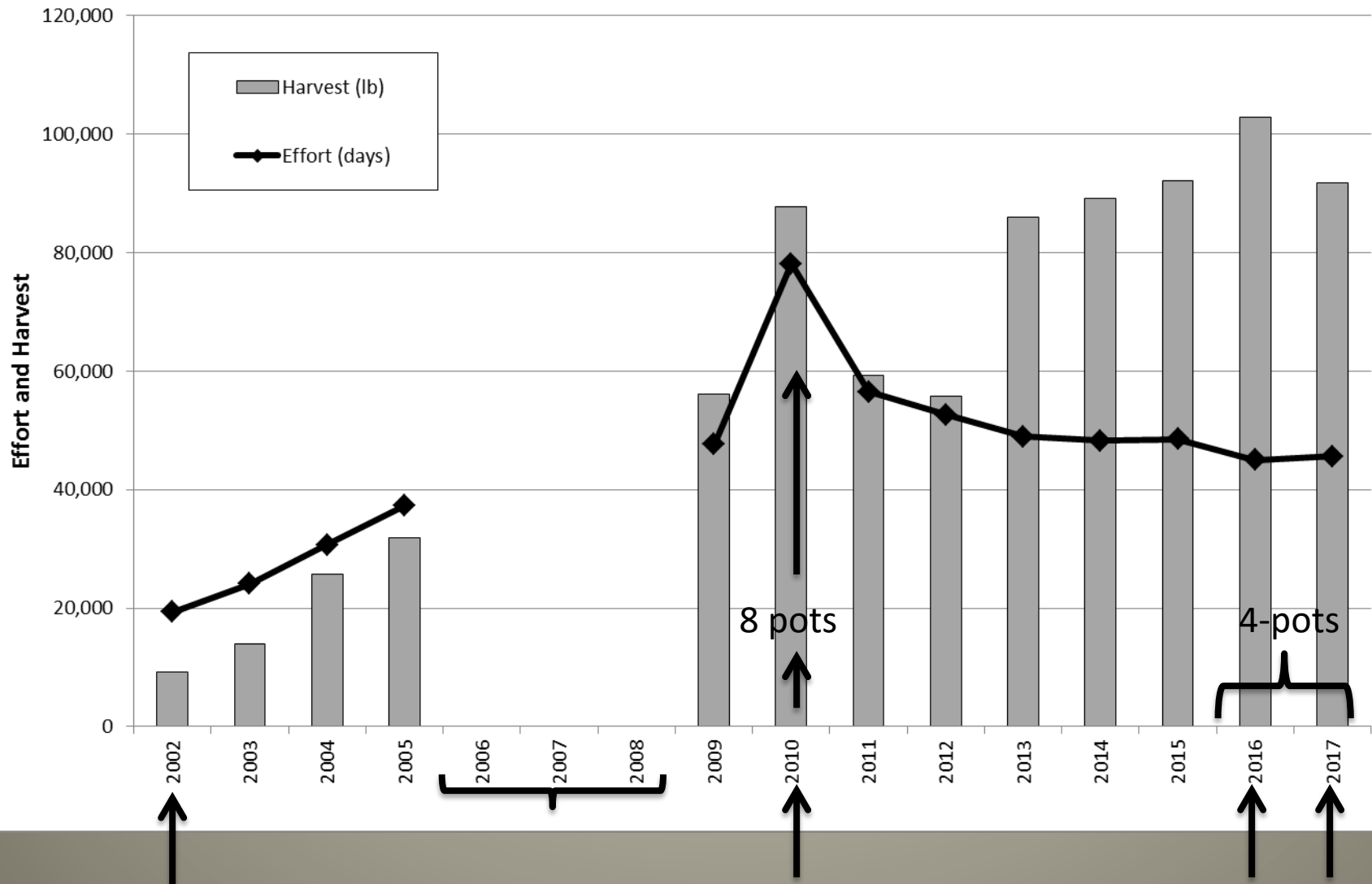
Report each day you shrimped and record your harvest, even if you did not catch anything



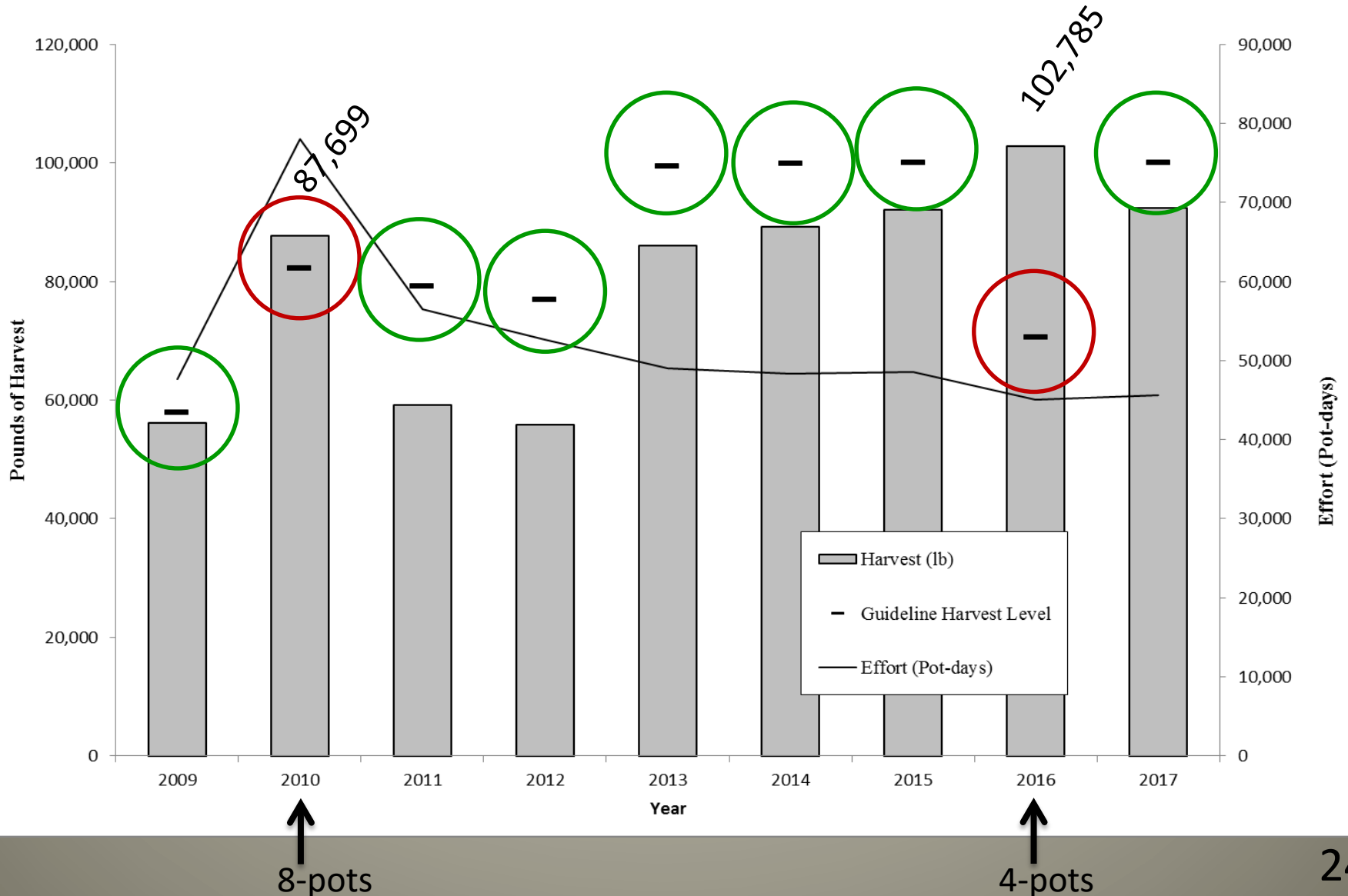
Noncommercial Shrimp Permits



Noncommercial Harvest and Effort

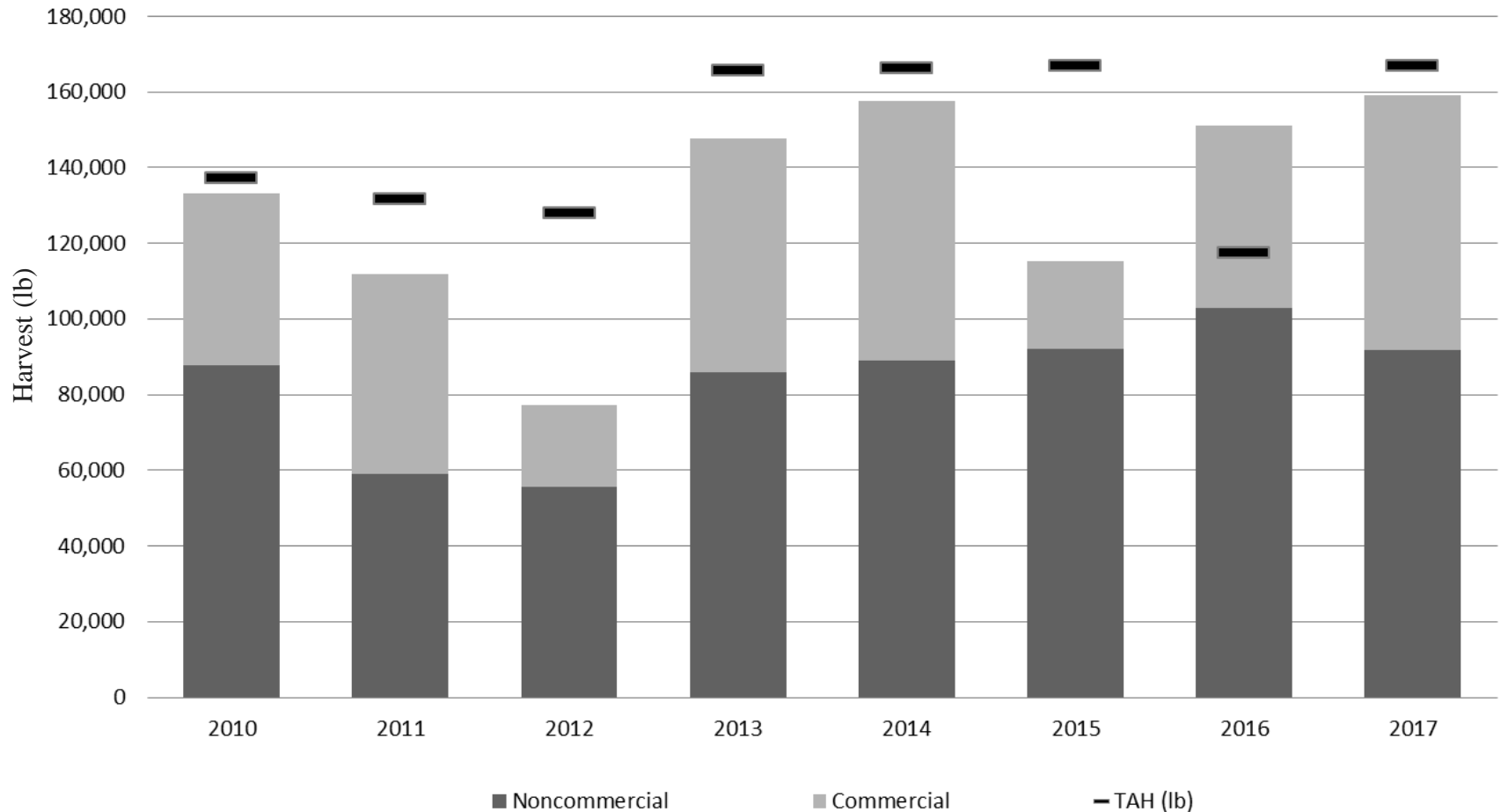


Noncommercial GHL's, Harvest and Effort



PWS Shrimp Pot Fisheries

Total Harvest 2010-2017



PWS Noncommercial Shrimp Pot Fishery

2018 Proposals (5)

- 216: Require noncommercial user to register prior to May 1st.
- 217: The addition of octopus specific gear with shrimp gear.
- 218: Modify season start date to May 1st.
- 224 (Option B), 225: Change the Total Allowable Harvest (TAH)



A close-up photograph of a large, translucent orange shrimp with white stripes on its body, resting on a black plastic mesh net. The shrimp's long antennae and legs are visible. The background is dark and out of focus.

Prince William Sound Shrimp Pot Fisheries, 2010 – 2017

Thank you.

By Jan Rumble and Jay Baumer



RC X Tab X