

Southeast AK Seine Task Force Meeting

December 8, 2020

Virtual

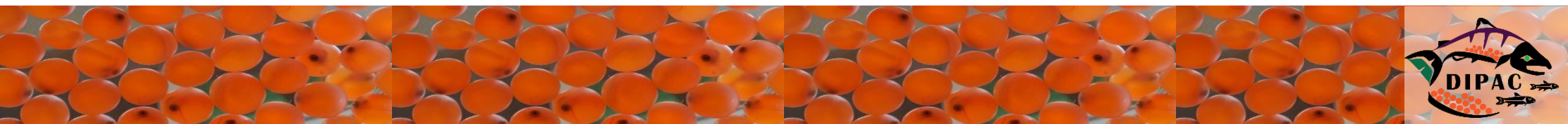
Adam Zaleski

Research Manager

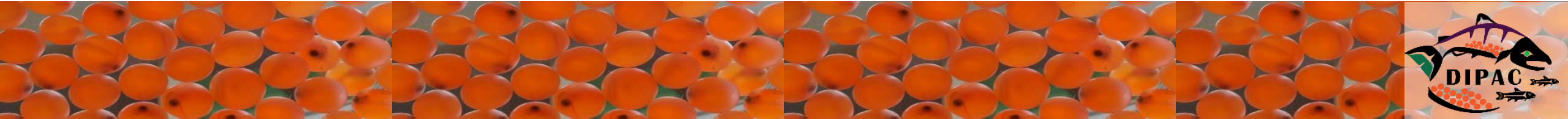
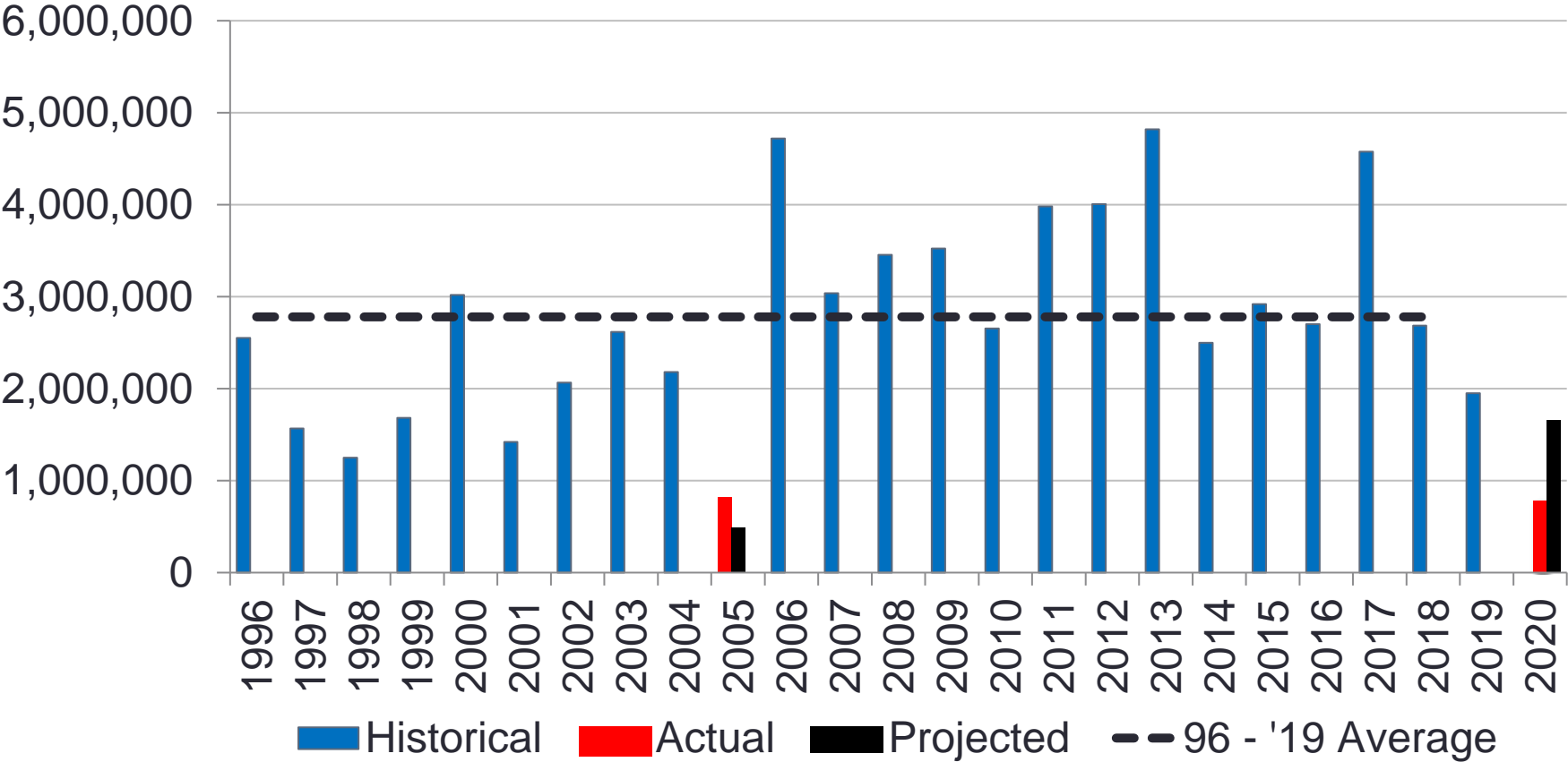


2020 Chum Return

	Age-3	Age-4	Age-5	Age-6	Total
Actual:	178,500	508,600	97,200	7,200	791,400
Projected:	52,800	1,212,800	367,600	23,600	1,656,900
% of Projected:	335%	42%	26%	30%	48%

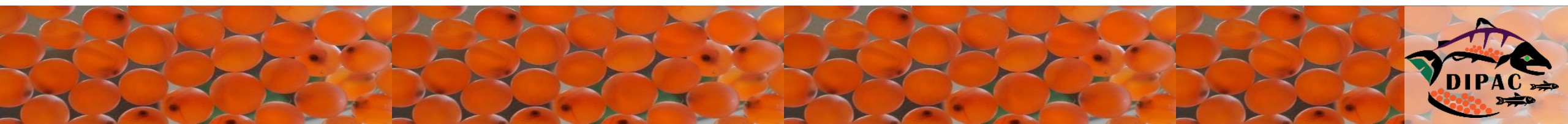
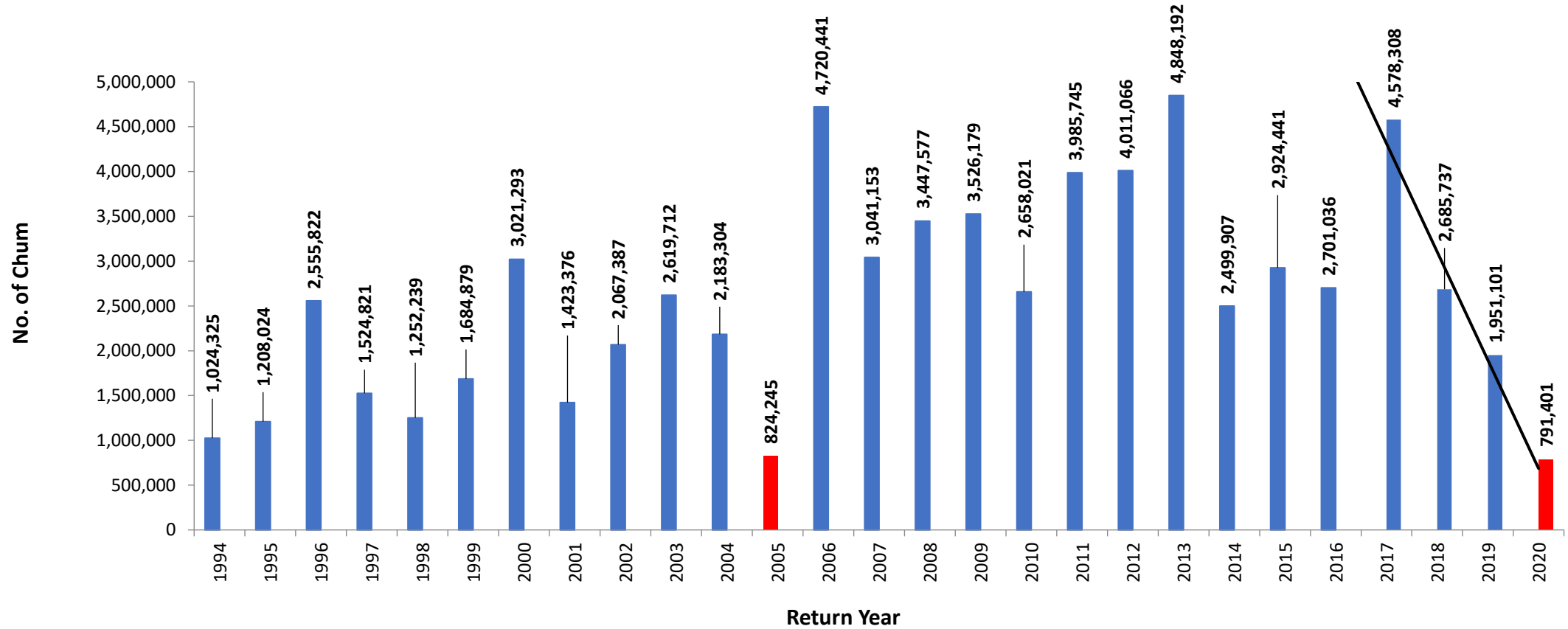


2020 Chum Return: Actual vs. Projected Harvest



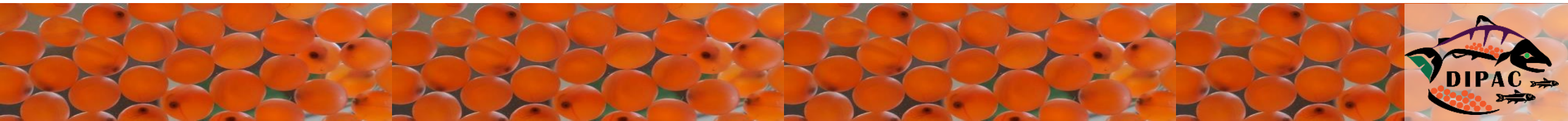
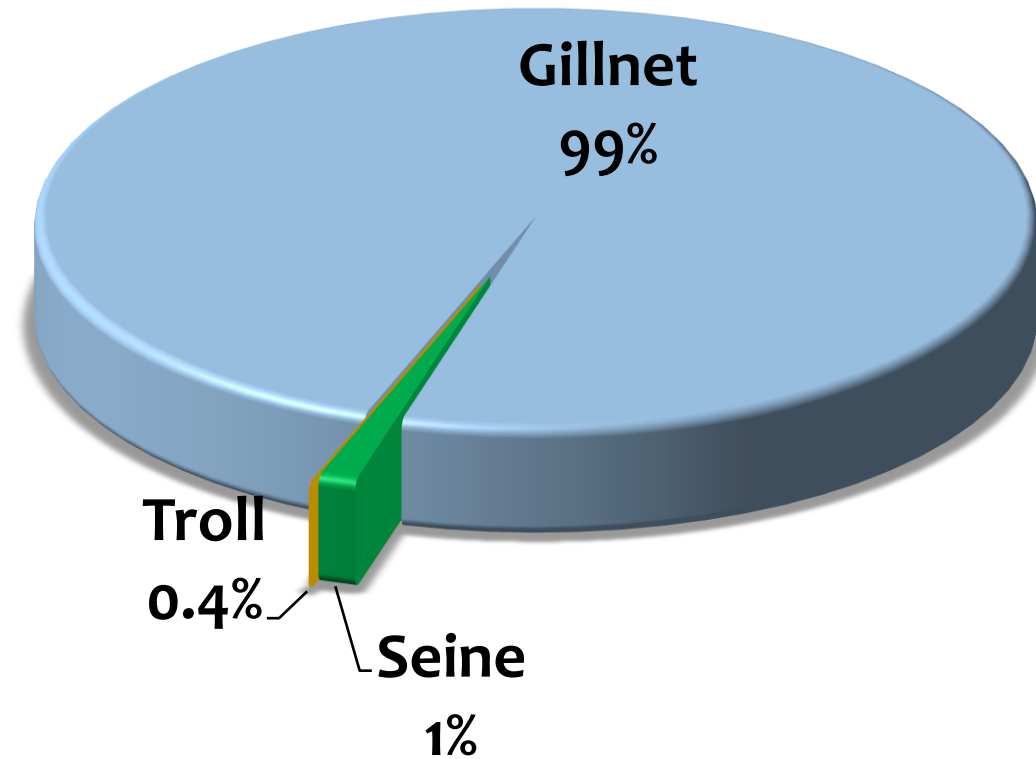
Historical Chum Returns

Total DIPAC Chum Returns



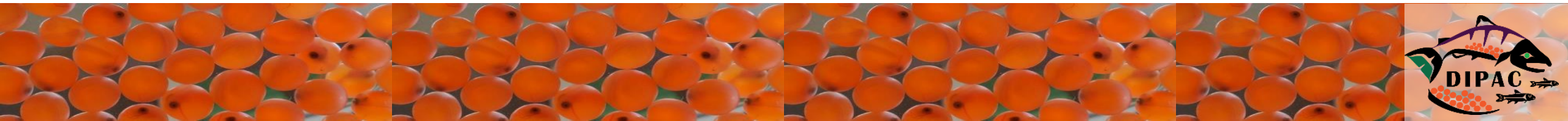
2020 Chum Contributions

Gillnet, Seine, & Troll Harvest



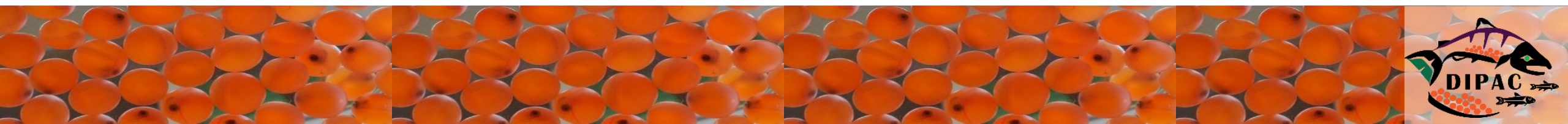
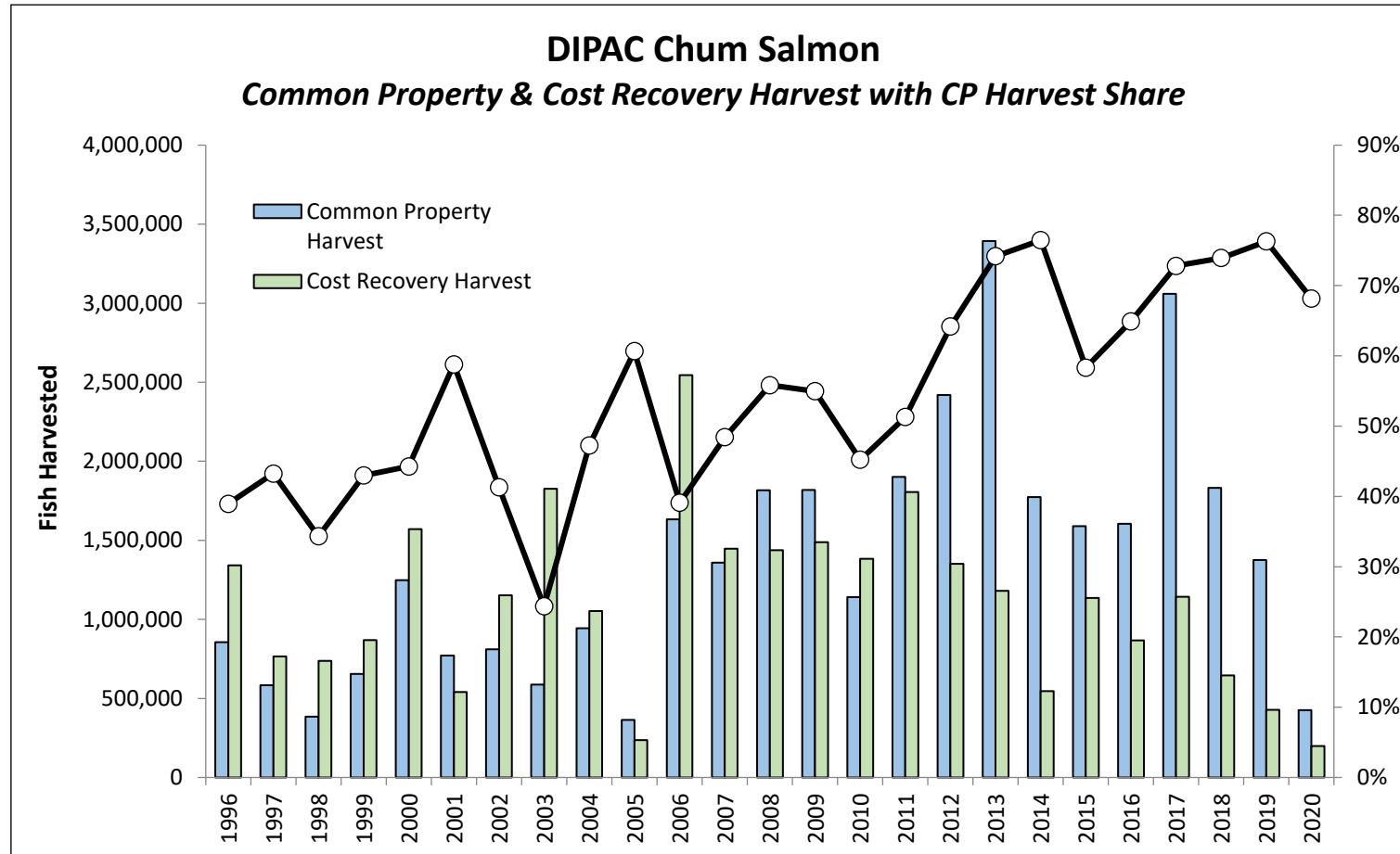
2020 Chum Return: Contribution, Cost Recovery, & Harvest Shares

	Common Property Harvest	DIPAC Contrib.	% DIPAC Contrib.	Cost Recovery	Total Harvest
Lynn Canal GN	314,800	310,400	99%	204,100	514,500
Taku/Stephens GN	109,000	106,700	98%	350	107,000
Homeshore Troll	12	9	73%	0	9
Amalga CP-Seine	0	0	0%	0	0
Other Seine	8,200	5,100	63%	0	5,100
Misc. SEAK	2,600	2,600	100%	0	2,600
Sport	0	500		0	500
Broodstock & Esc.	0	0		0	161,600
Total	434,600	425,300	98%	204,500	791,400
Harvest Shares		68%		32%	

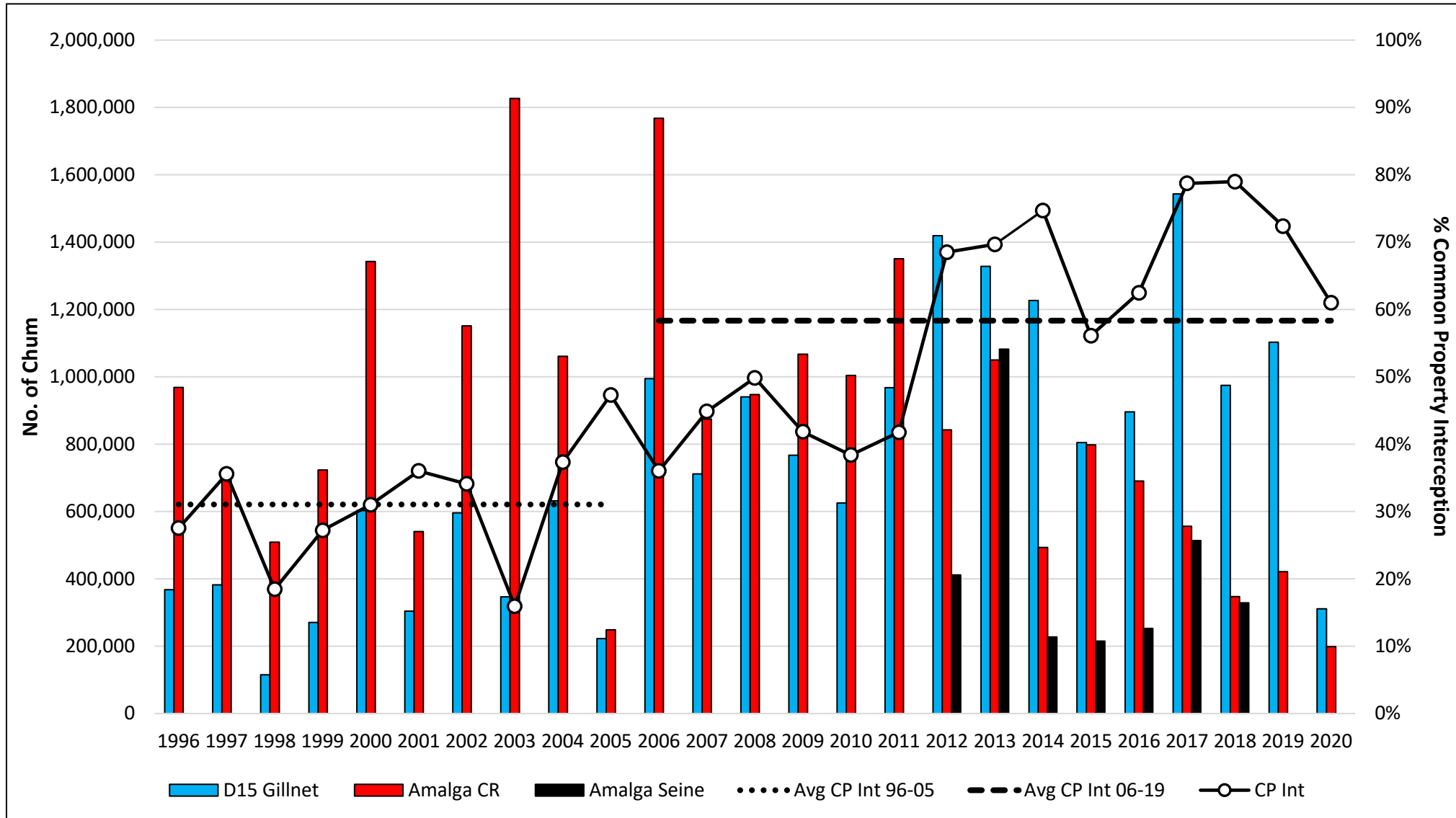


DIPAC Chum Harvest:

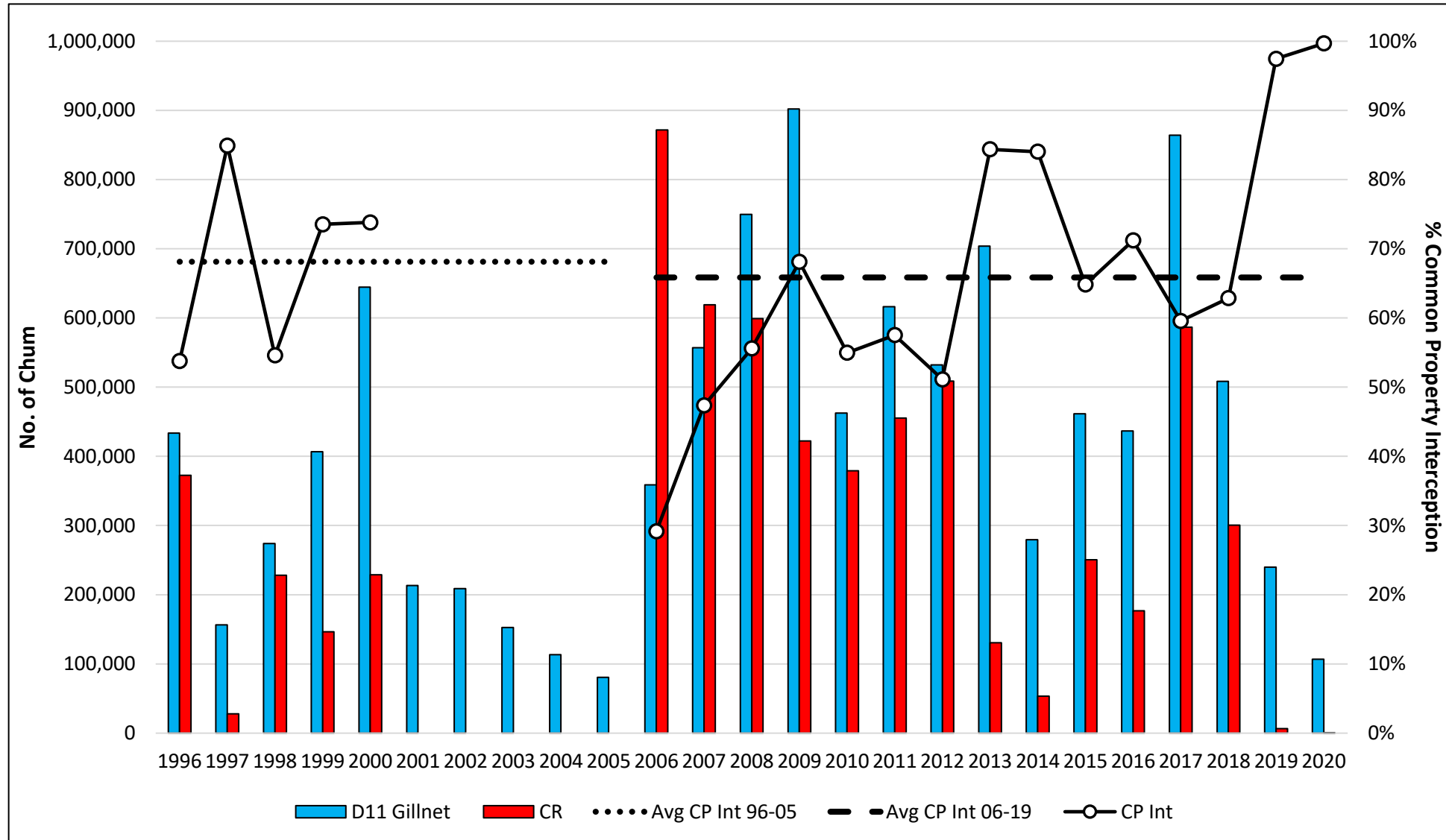
Cost Recovery, Common Property, & Harvest Shares



District 115 Chum Contribution: Gillnet & Amalga SHA Seine

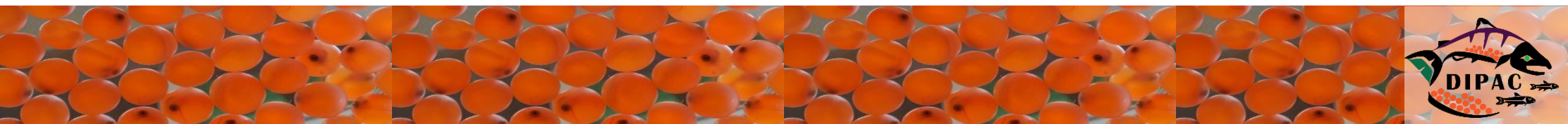


District 111 Chum Contribution: Gillnet & Cost Recovery Seine



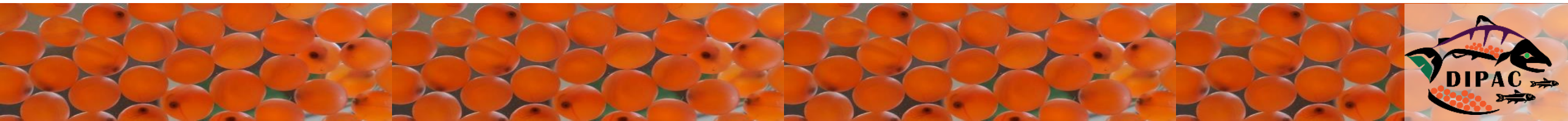
2020 Chum Return: Cost Recovery Summary

	Fish	Pounds
Amalga Harbor	204,100	1,462,400
Gastineau Channel	160	1,600
Macaulay Hatchery	190	720
	204,500	1,464,800



Chum Marine Survival

Broodyear	Age 3	Age 4	Age 5	Age 6	Total
2013	0.03%	2.75%	1.15%	0.03%	3.97%
2014	0.09%	0.94%	0.25%	0.01%	1.29%
2015	0.32%	1.65%	0.10%		2.07%
2016	0.08%	0.52%			0.59%
2017	0.17%				0.17%



Preliminary Alaska Chum Harvest

2020 Weekly Alaska Salmon Harvest Update #14

Harvest Through Statistical Week 37 (9/12/2020)

(Thousand Fish)

	Sockeye			Pink			Keta			Coho			Chinook		
	YTD 2019	YTD 2020	YoY	YTD 2018	YTD 2020	YoY	YTD 2019	YTD 2020	YoY	YTD 2019	YTD 2020	YoY	YTD 2019*	YTD 2020*	YoY
AYK	8	0	-100%	79	12	-85%	1,131	190	-83%	195	17	-91%	6	1	-83%
Kodiak	2,119	1,455	-31%	5,942	21,300	258%	553	370	-33%	388	406	5%	8	8	0%
Chignik	639	0	-100%	0	0	-	158	0	-100%	249	0	-100%	4	0	-100%
AK Pen. & Aleutian Is.	4,039	2,559	-37%	795	4,157	423%	1,399	653	-53%	565	160	-72%	26	20	-23%
Bristol Bay	43,028	39,249	-9%	244	59	-76%	1,395	265	-81%	81	97	20%	35	5	-86%
Cook Inlet	2,112	774	-63%	1,691	2,809	66%	186	39	-79%	178	136	-24%	3	1	-67%
Prince William Sound	2,603	936	-64%	22,288	21,720	-3%	5,145	1,991	-61%	518	242	-53%	19	4	-79%
Southeast	1,010	363	-64%	8,044	7,496	-7%	9,146	3,950	-57%	1,439	800	-44%	173	181	5%
Statewide	55,292	45,340	-18%	39,085	57,560	47%	19,116	7,457	-61%	3,615	1,860	-49%	276	227	-18%

Note: Data is subject to revision and excludes some volume to maintain confidentiality. Regional totals may not sum to statewide total. *Chinook figures exclude harvest before week 20.

Source: Alaska Department of Fish & Game.

2020 Harvest v. Projection

(Thousand Fish)

	Harvest	Projection	% Realized
Sockeye	45,340	48,100	94%
Pink	57,560	60,600	95%
Keta	7,457	19,400	38%
Coho	1,860	4,200	44%
Chinook	227	320	71%
Total	112,444	132,620	85%



Age 3 – 4 Sibling Relationship

- How many age 4 to expect based on the number of returning age 3
- 2003 – 2014, average ratio is 35
- 2015 – 2016, average ratio is 6
- Standard forecasting methods are uninformative & unrealistic

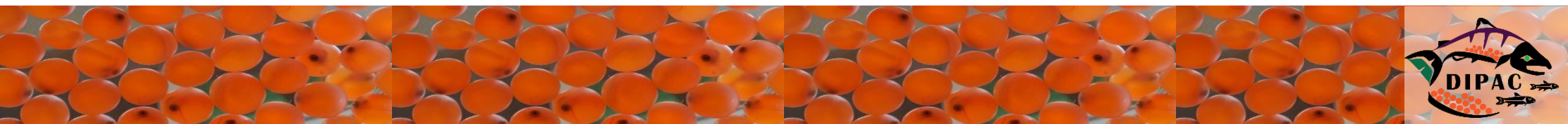
BY	Age-3	Age-4	$\frac{3}{4}$ Ratios
2003	170,150	1,870,045	11
2004	115,138	2,665,516	23
2005	65,131	2,362,953	36
2006	46,917	1,520,281	32
2007	116,213	3,432,837	30
2008	62,260	2,400,581	39
2009	84,968	3,082,225	36
2010	26,934	760,453	28
2011	43,842	2,130,716	49
2012	50,009	1,839,401	37
2013	37,322	3,177,787	85
2014	98,348	1,010,290	10
2015	302,148	1,571,409	5
2016	75,040	508,561	7
2017	178,487		

Sockeye



2020 Sockeye Return: Totals by Age

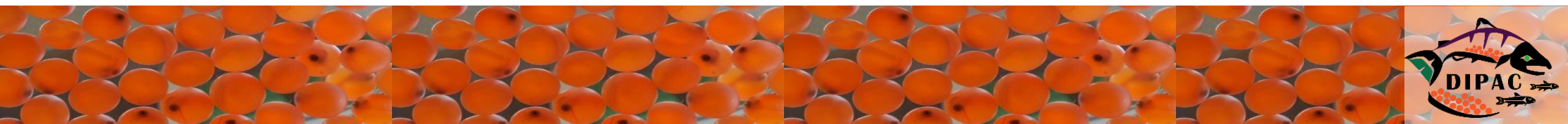
	Age-4	Age-5	Total
Actual:	83,500	20,800	104,300
Projected:	132,600	93,300	225,900
% of Projected:	49%	60%	46%



2020 Sockeye Return

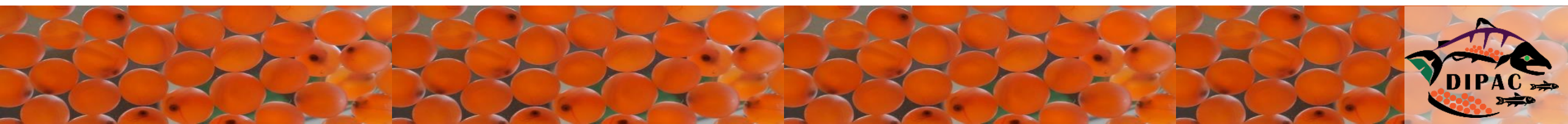
	Common Property	Cost Recovery	Broodstock¹	Total
Actual:	30,500	72,100	6,900	109,600
Projected:	111,100	108,000	6,800	225,900
% of Projected:	27%	67%	100%	49%

1) Includes end-of-season unmarketable fish.



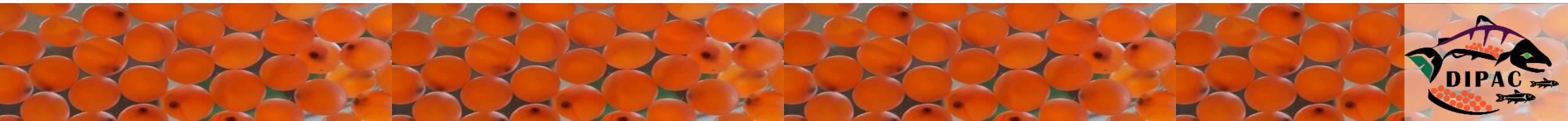
2020 Sockeye Return: Contribution, Cost Recovery, & Harvest Shares

	CP Harvest	DIPAC Contribution	Cost Recovery	Total Harvest
District 11 Gillnet	28,200	16,400	72,100	88,600
Other Gillnet	60,000	9,700	0	9,700
Seine	1,300	300	0	300
Personal Use	4,100	4,100	0	4,100
Broodstock	0	0	0	6,900
Total	93,500	30,500	72,100	109,600
Harvest Shares		30%	70%	

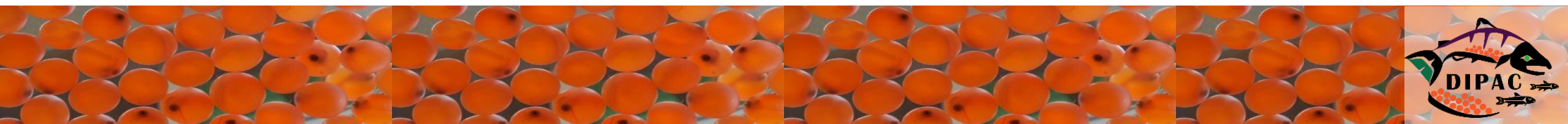
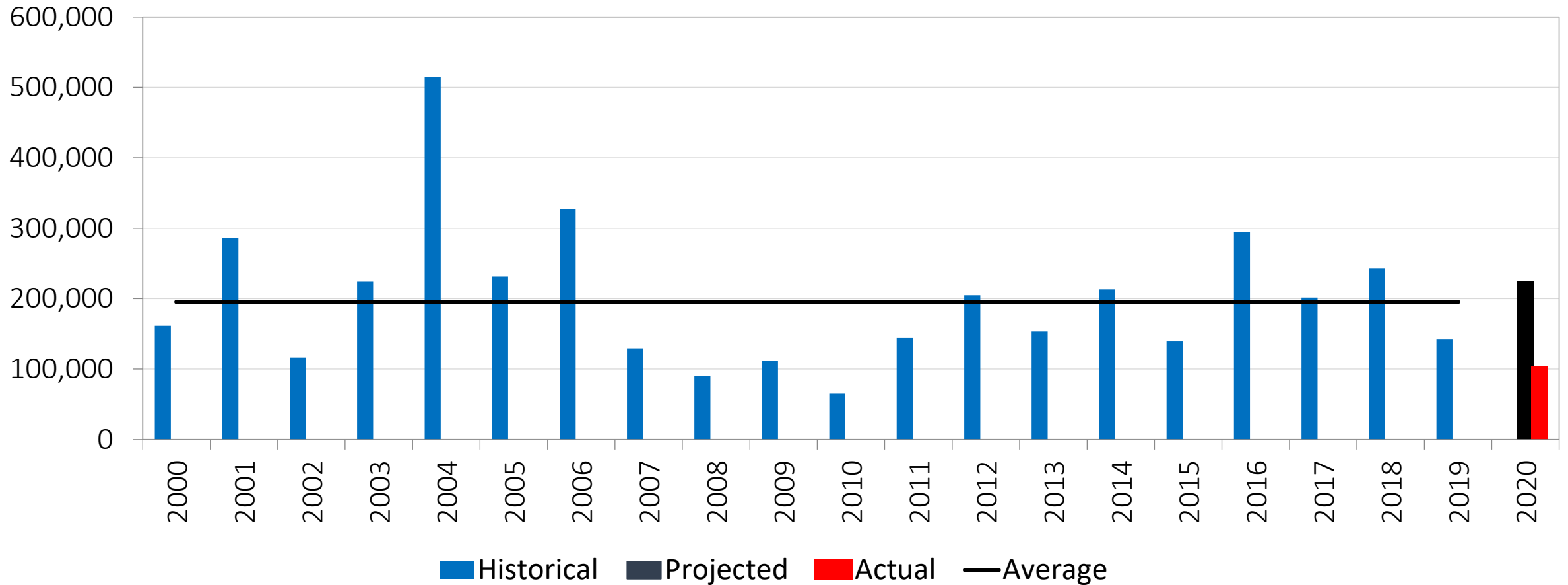


Sockeye Marine Survival

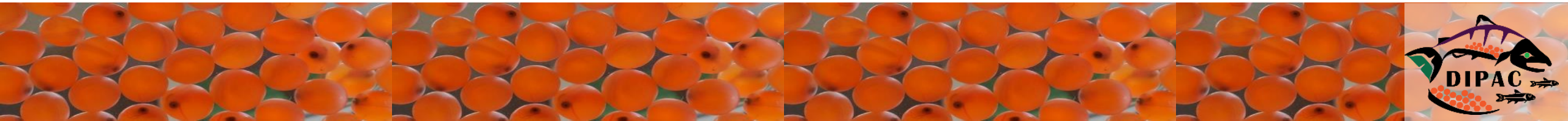
Broodyear	Age 3	Age 4	Age 5	Total
2013	0.13%	1.07%	0.29%	1.48%
2014	0.23%	2.60%	0.76%	3.59%
2015	0.00%	0.75%	0.26%	1.01%
2016	0.20%	0.93%		1.13%
2017	0.11%			0.11%



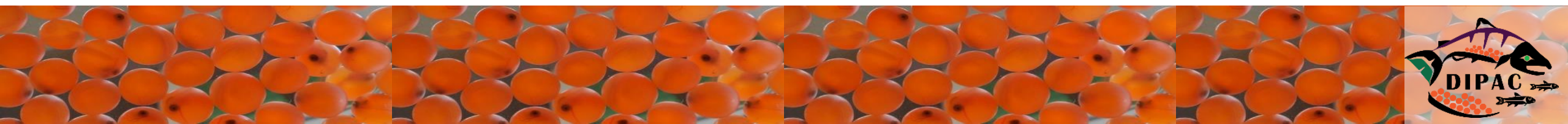
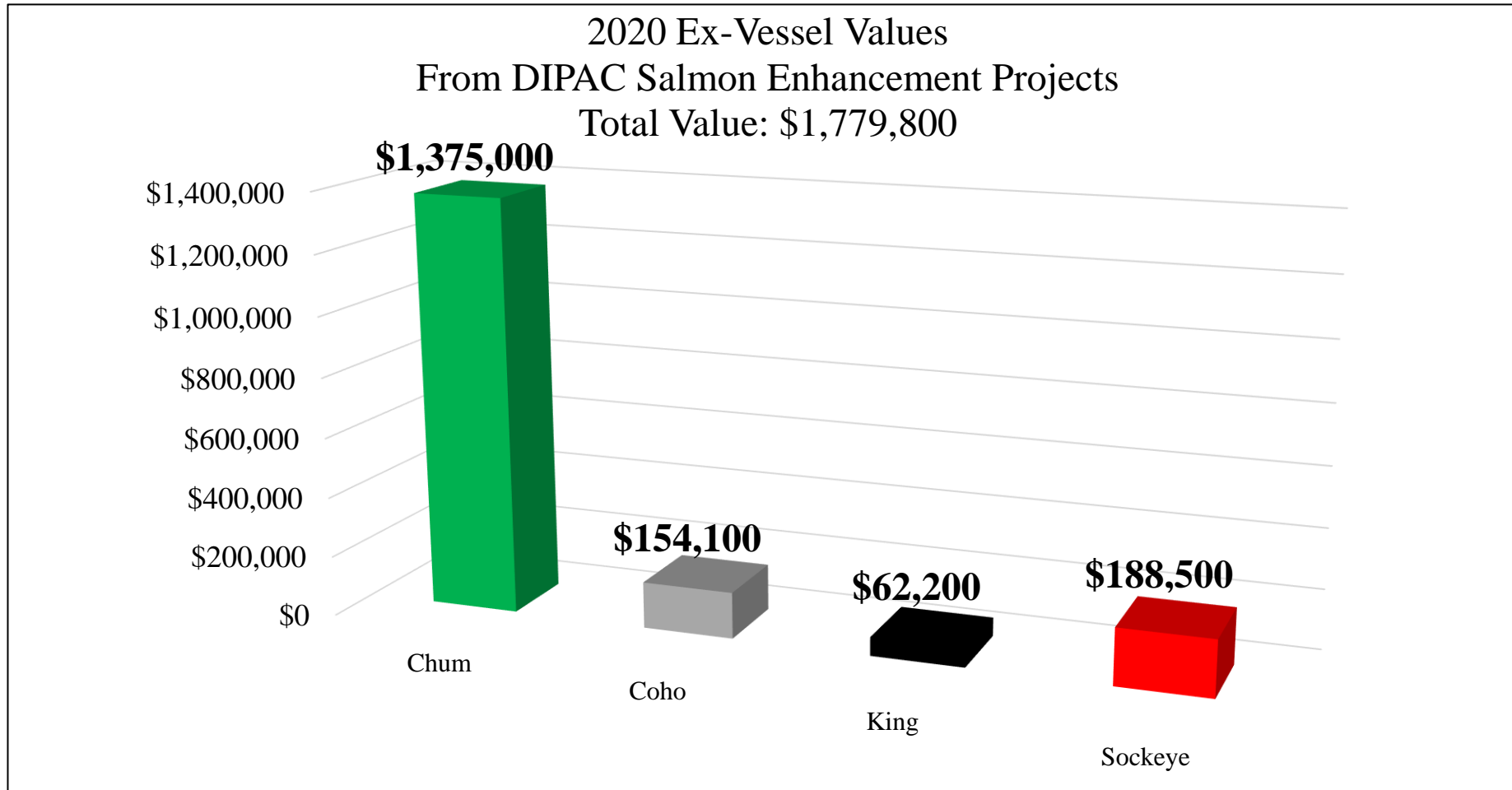
2020 Sockeye Return: Actual vs. Projected Return



Estimated (\$) Value & Contributions

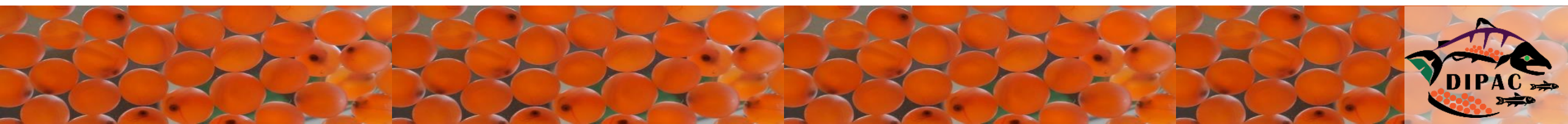
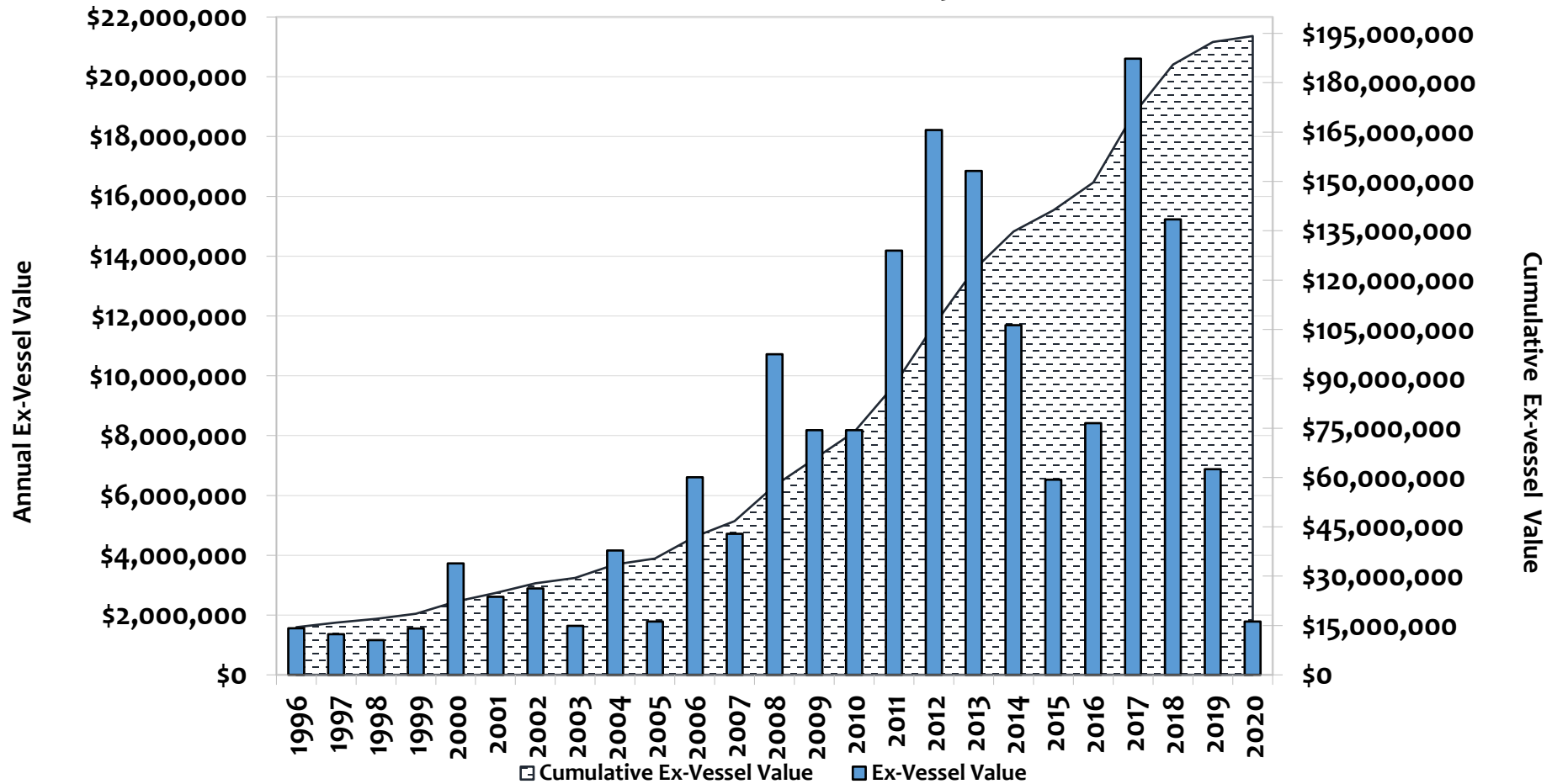


2020 Contributions

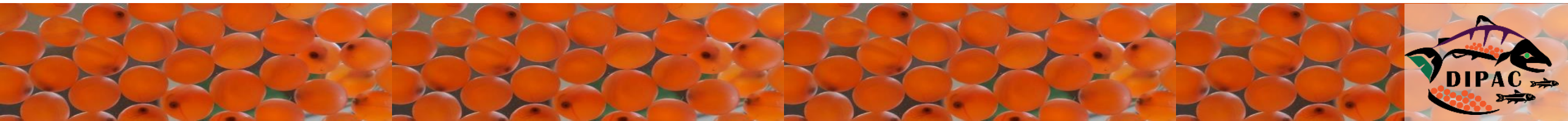


DIPAC Salmon Contributions

Cumulative Ex-Vessel Value: \$194,182,600

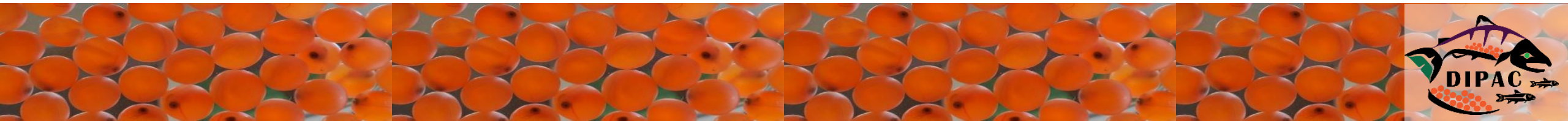


2021 Forecast



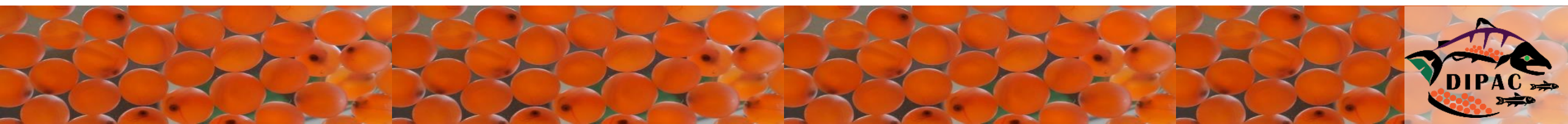
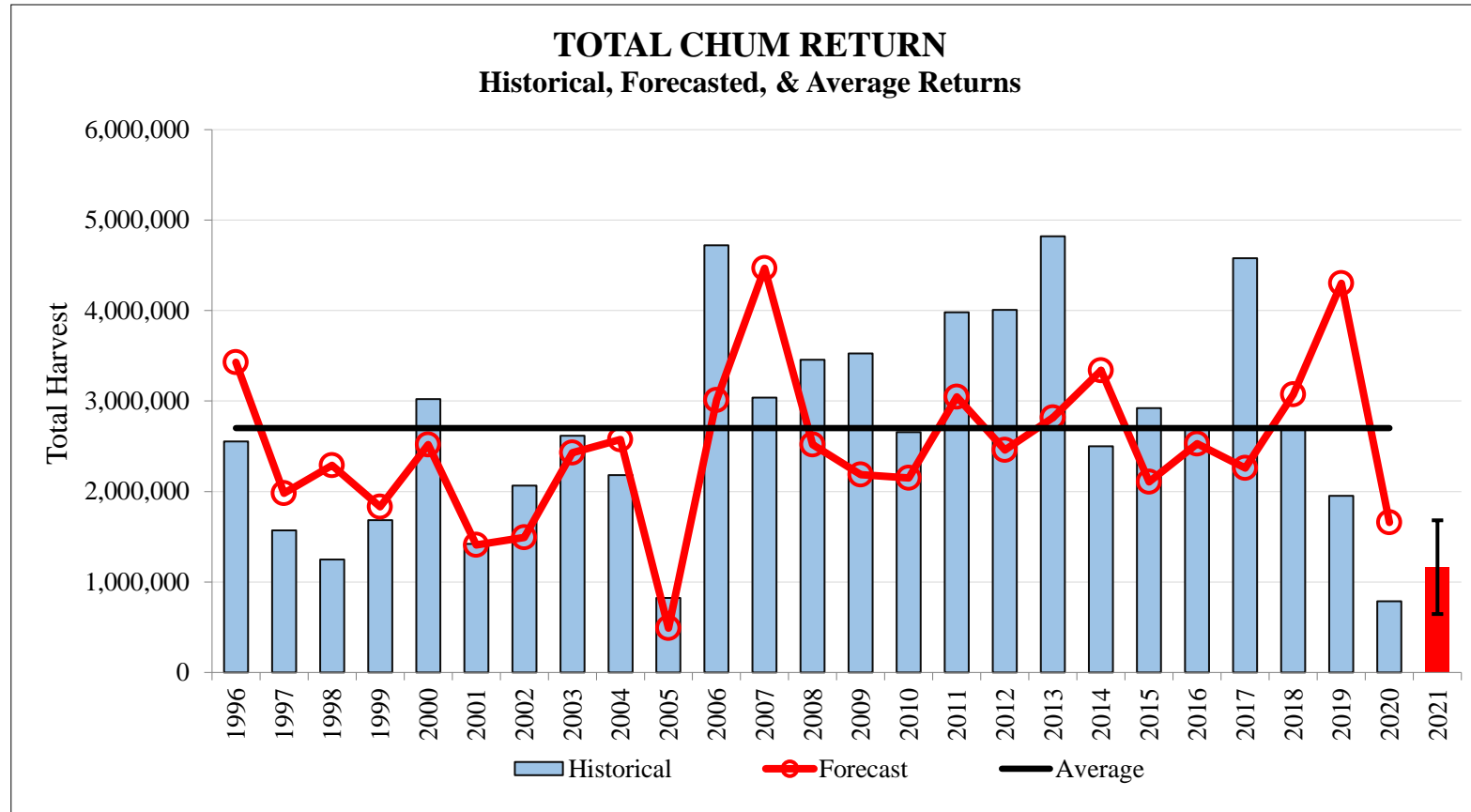
2021 Chum Forecast

	Low End	Mid Point	High End	Common Property	Cost Recovery	Brood
Taku/Stephens	188,400	407,300	626,100	216,200	1,000	190,000
Lynn Canal/ Amalga	356,400	655,700	955,000	394,800	260,900	
Total	544,800	1,063,000	1,581,000	611,000	261,900	



2021 Chum Forecast

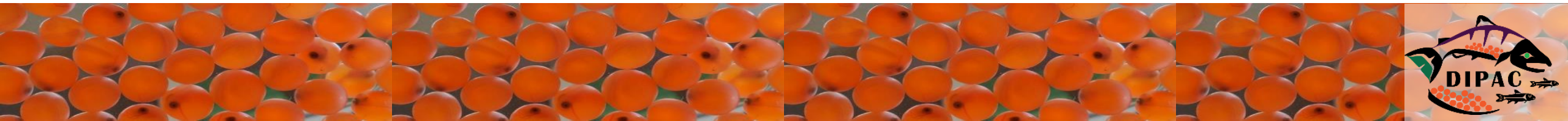
Historical & Projected Returns



2021 Sockeye Forecast

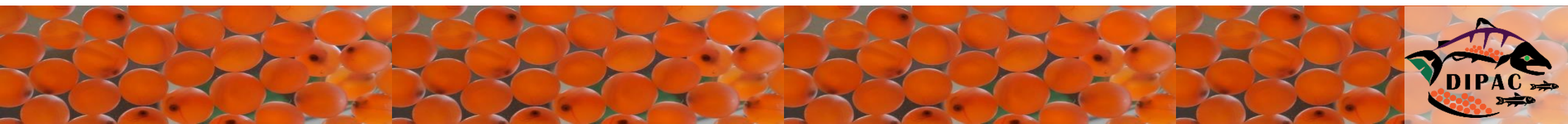
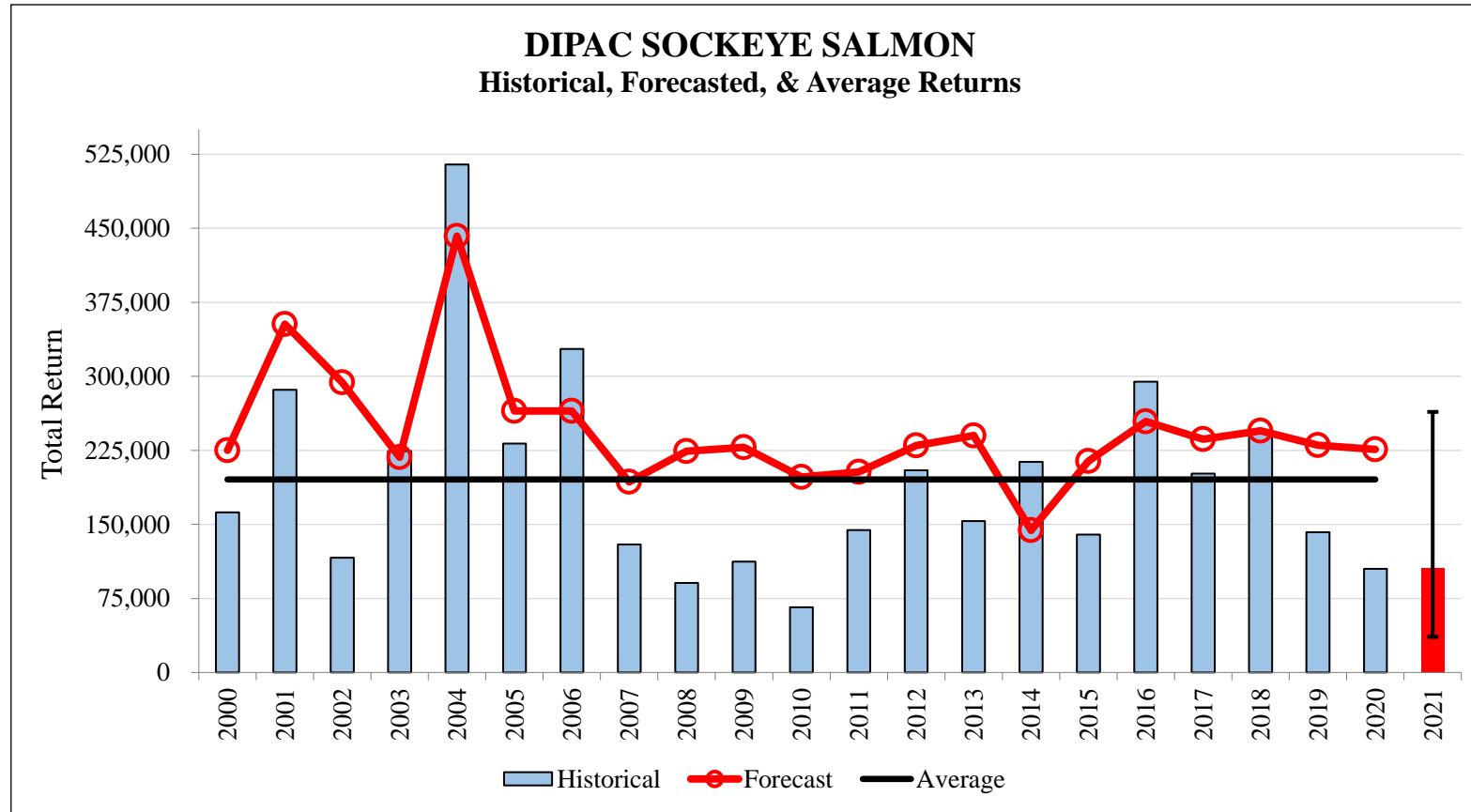
	Low End	Mid Point	High End
Age 5	70,100	98,100	126,500
Age 4	0	7,800	31,500
Total	70,100	106,100	158,000

Harvest Share Goal		Average Harvest Shares	
70% CP:	69,500	51% CP:	50,400
30% CR:	29,800	49% CR:	49,000
Broodstock:	6,800	Broodstock:	6,800



2021 Sockeye Forecast

Historical & Projected Returns





Thank You.