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Table 1. Observer coverage level goals in the Bering Sea and Aleutian Islands crab fisheries.

Fishery	Preseason registration deadline <sup>a</sup>	Catcher vessels (C/V)		Catcher processors (C/P)	
		Observer coverage	Observer costs funded <sup>b</sup>	Observer coverage	Observer costs funded
Saint Matthew Island Section blue king crab (SMB)	none	100%	no	100%	no
Saint Matthew Island Section golden king crab	none	100%	no	100%	no
Pribilof District red & blue king crab (PIK)	none	100%	no	100%	no
Pribilof District golden king crab	none	100%	no	100%	no
Bristol Bay red king crab (BBR)	Sep-24	20% <sup>c</sup>	yes	100%	20% <sup>d</sup>
Eastern Bering Sea Tanner crab (EBT)	Sep-24	30–100% <sup>c</sup>	yes	100%	30% <sup>d</sup>
Western Bering Sea Tanner crab (WBT)	Sep-24	30–100% <sup>c</sup>	yes	100%	30% <sup>d</sup>
Bering Sea snow crab (BSS)	Sep-24	30-100% <sup>c</sup>	yes	100%	30% <sup>d</sup>
Bering Sea hair crab	none	100%	no	100%	no
Area J grooved and triangle Tanner crab	none	100%	no	100%	no
Eastern Aleutian Islands golden king crab (EAG)	none	50% <sup>e</sup>	yes	100%	no
Western Aleutian Islands golden king crab (WAG)	none	50% <sup>e</sup>	yes	100%	no
Aleutian Islands red king crab between 171° W long and 179° W long	none	100%	no	100%	no
Western Aleutian Islands red king crab west of 179° W long (WAI)	none	100%	no	100%	no

<sup>a</sup> When the preseason vessel registration deadline occurs on a weekend or holiday, the deadline is extended to the next business day.

<sup>b</sup> C/V observer coverage is funded with test-fishery revenues and federal crab rationalization funds.

<sup>c</sup> For Bristol Bay red king, Eastern and Western Bering Sea Tanner, and Bering Sea snow crab, C/V observer coverage is the percentage of randomly selected C/Vs preseason registered for each fishery where C/V observer deployment costs are paid with Bristol Bay red king crab test-fishery revenues and federal crab rationalization funds.

<sup>d</sup> For C/Ps fishing Bristol Bay red king, Eastern and Western Bering Sea Tanner, and Bering Sea snow crab, a percentage of the C/P observer coverage is refunded through ADF&G contracts and paid with Bristol Bay red king crab test-fishery revenues.

<sup>e</sup> For Aleutian Islands golden king crab, coverage is set at a percentage of the harvest on each C/V during each of three trimesters where C/V observer deployment costs are paid with Aleutian Islands golden king crab test-fishery revenues.

Table 1b. FY21 Observer coverage levels by fishery.

2020/21 BBR Observed Summary				
Observers Onboard	Landed Weight	% Weight Obs	Days at Sea	% Days at Sea
Not Observed	1,977,401	74.71%	NC	NC
<b>Observed</b>	669,473	<b>25.29%</b>	NC	<b>NC</b>

2020/21 BSS Observed Summary				
Observers Onboard	Landed Weight	% Weight Obs	Days at Sea	% Days at Sea
Not Observed	34,001,097	75.56%	3,441	76.54%
<b>Observed</b>	11,000,093	<b>24.44%</b>	1,212	<b>23.46%</b>

2020/21 WBT Observed Summary				
Observers Onboard	Landed Weight	% Weight Obs	Days at Sea	% Days at Sea
Not Observed	1,125,142	77.62%	828	77.64%
<b>Observed</b>	324,401	<b>22.38%</b>	234	<b>22.36%</b>

2020/21 EBT Observed Summary *fishery closed				
Observers Onboard	Landed Weight	% Weight Obs	Days at Sea	% Days at Sea
Not Observed				
<b>Observed</b>				

2020/21 EAG Observed Summary			
Observers Onboard	Landed Weight (sum)	Landed Weight Observed	% Observed
1st Trimester			
<b>Observed</b>	2,541,251	1,429,620	<b>56%</b>
2nd Trimester			
<b>Observed</b>	747,889	651,830	<b>87%</b>
3rd Trimester			
<b>Observed</b>	154,774	62,138	<b>40%</b>

2020/21 WAG Observed Summary			
Observers Onboard	Landed Weight (sum)	Landed Weight Observed	% Observed
1st Trimester			
<b>Observed</b>	1,010,173	615,277	<b>61%</b>
2nd Trimester			
<b>Observed</b>	876,492	650,082	<b>74%</b>
3rd Trimester			
<b>Observed</b>	906,170	524,690	<b>58%</b>

NC=not collected

Table 2. Summary of FY21 Bristol Bay red king crab test-fishery account revenues and expenses. \*As of 6/30/21.

<u>Bering Sea test-fishery budget allocation</u>	
Test-fishery account balance carried forward from FY20 into FY21	\$ 382,899
Test-fishery revenue	\$ 650,000
Sum of carry forward and revenue	\$ 1,032,899
Test-fishery expenditures	\$ 363,385
Test-fishery account funds to be carried forward from FY21 for start up funds in FY22	<u>\$ 669,514</u>

Table 3. Number and % of registered catcher vessels selected for observer coverage for Bering Sea crab fisheries.

Fiscal Year	BBR				BSS				EBT <sup>c</sup>				WBT <sup>c</sup>			
	# C/Vs preseason registered <sup>a</sup>	registered C/V effort	# C/Vs observed	% C/Vs observed	# C/Vs preseason registered <sup>a</sup>	registered C/V effort	# C/Vs observed	% C/Vs observed	# C/Vs preseason registered <sup>a</sup>	registered C/V effort	# C/Vs observed	% C/Vs observed	# C/Vs preseason registered <sup>a</sup>	registered C/V effort	# C/Vs observed	% C/Vs observed
FY18	78	61	16	26 <sup>f</sup>	78	59	15	25 <sup>f</sup>	71	FC	FC	FC	74	30	12	40 <sup>f</sup>
FY19	72	55	13	24	73	61	20	33	62	FC	FC	FC	67	33	16	48
FY20	77	59	14	24	79	59	24	41	69	FC	FC	FC	74	FC	FC	FC
FY21	72	47	11	23	73	58	20	34	68	FC	FC	FC	65	31	7	23

Note: BBR = Bristol Bay red king crab, BSS = Bering Sea snow crab, EBT = Eastern Bering Sea Tanner crab, WBT = Western Bering Sea Tanner crab, C/V = Catcher vessel, NP = No projection, and FC = Fishery closed

<sup>a</sup> Selection of C/Vs for observer coverage is based on the number of C/Vs preseason registered with intent to fish. The deadline for preseason registration is September 24. Vessels are allowed to late-register if certain criteria are met.

<sup>c</sup> Beginning October 15, 2008 vessels may no longer be registered to harvest Bering Sea Tanner crab and Bering Sea snow crab at the same time aside from a 5% incidental take allowance.

<sup>f</sup> Some C/Vs were allowed to carry an observer for only a portion of their snow or Tanner crab harvest dependent on vessel fishing plans and observer availability; the % CVs observed may not match the % harvest observed.



Table 5. The 2020/21 Bristol Bay red king crab fishery C/V observer deployment costs paid with test-fishery revenues, and average observer deployment lengths since 2017/18.

	Source of Cost		Totals
	ADF&G	SOA contract	
Number of deployments		10	Total deployments 10
Observer deployment days		154	Total deployment days 154
Cost of observers <sup>a</sup>		\$ 17,503	Total observer personnel \$ 17,503
Expenses per source between Anchorage and Dutch Harbor for transportation, and room and board <sup>a</sup>	\$ -	\$ -	Total non-remote \$ -
Expenses per source between Dutch Harbor and remote ports for transportation, and room and board	\$ -	\$ -	Total remote \$ -
			Total costs <u>\$ 17,503</u>

Average C/V observer deployment lengths since 2017/18

Season	Fishery length (days)	Average deployment length (days) <sup>c</sup>	Deployment duration range (days) <sup>d</sup>
2017/18	93	18	8-32
2018/19	93	18	7-23
2019/20	93	17	7-25
2020/21	93	11	6-23

Note: BBR = Bristol Bay red king crab, C/V = Catcher vessel

<sup>a</sup>ADF&G staff lodge in state housing when available. Costs for contract observer transportation and room and board, except travel to remote ports, are included in the contract cost of \$341/day.

<sup>c</sup>Observers frequently deploy more than once during a fishery.

<sup>d</sup>Range includes the single shortest observer deployment to the single longest deployment.

Table 6. The 2020/21 Bering Sea snow crab fishery C/V observer deployment costs paid with test-fishery revenues, and average observer deployment lengths since 2017/18.

	Source of Cost		Totals
	ADF&G	SOA contract	
Number of deployments	0	21	Total deployments 21
Observer deployment days	0	1262	Total deployment days 1262
Cost of observers <sup>a</sup>	\$ -	\$ 143,433	Total observer personnel <sup>f</sup> \$ 143,433
Expenses per source between Anchorage and Dutch Harbor for transportation, and room and board <sup>a</sup>	\$ -	\$ -	Total non-remote \$ -
Expenses per source between Dutch Harbor and remote ports for transportation, and room and board	\$ -	\$ -	Total remote \$ -
			Total costs \$ 143,433
Average C/V observer deployment lengths since 2017/18			
Season	Fishery length (days)	Average deployment length (days) <sup>c</sup>	Deployment duration range (days) <sup>d</sup>
2017/18	229	40	17-75
2018/19	229	39	4-86
2019/20	229	57	15-103
2020/21	229	60	12-144

Note: BSS = Bering Sea snow crab, C/V = Catcher vessel

<sup>a</sup>ADF&G staff lodge in state housing when available. Costs for contract observer transportation and room and board, except travel to remote ports, are included in the contract cost of \$341/day.

<sup>c</sup>Observers frequently deploy more than once during a fishery.

<sup>d</sup>Range includes the single shortest observer deployment to the single longest deployment.



Table 7. The 2020/21 Eastern Bering Sea Tanner crab fishery C/V observer deployment costs paid with test-fishery revenues, and average observer deployment lengths since 2017/18.

	Source of Cost		Totals
	ADF&G	SOA contract	
Number of deployments	0	0	Total deployments 0
Observer deployment days	0	0	Total deployment days 0
Cost of observers <sup>a</sup>	\$ -	\$ -	Total observer personnel \$ -
Expenses per source between Anchorage and Dutch Harbor for transportation, and room and board <sup>a</sup>	\$ -	\$ -	Total non-remote \$ -
Expenses per source between Dutch Harbor and remote ports for transportation, and room and board	\$ -	\$ -	Total remote \$ -
			Total costs \$ -

  

Average C/V observer deployment lengths since 2017/18			
Season	Fishery length (days)	Average deployment length (days) <sup>c</sup>	Deployment duration range (days) <sup>d</sup>
2017/18	FC	NA	NA
2018/19	FC	NA	NA
2019/20	FC	NA	NA
2020/21	FC	NA	NA

Note: EBT = Eastern Bering Sea Tanner crab, C/V = Catcher vessel, FC = Fishery closed, NA = Not applicable

<sup>a</sup>ADF&G staff lodge in state housing when available. Costs for contract observer transportation and room and board, except travel to remote ports, are included in the contract cost of \$341/day.

<sup>c</sup> Observers frequently deploy more than once during a fishery.

<sup>d</sup> Range includes the single shortest observer deployment to the single longest deployment.

Table 8. The 2020/21 Western Bering Sea Tanner crab fishery C/V observer deployment costs paid with test-fishery revenues, and average observer deployment lengths since 2017/18.

	Source of Cost		Totals
	ADF&G	SOA contract	
Number of deployments	0	7	Total deployments 7
Observer deployment days	0	150	Total deployment days 150
Cost of observers <sup>a</sup>	\$ -	\$ 17,048	Total observer personnel \$ 17,048
Expenses per source between Anchorage and Dutch Harbor for transportation, and room and board <sup>a</sup>	\$ -	\$ 247	Total non-remote \$ 247
Expenses per source between Dutch Harbor and remote ports for transportation, and room and board	\$ -	\$ -	Total remote \$ -
			Total costs \$ 17,295

  

Average C/V observer deployment lengths since 2017/18			
Season	Fishery length (days)	Average deployment length (days) <sup>c</sup>	Deployment duration range (days) <sup>d</sup>
2017/18	168	18	7-73
2018/19	168	17	4-27
2019/20	FC	NA	NA
2020/21	168	21	12-34

Note: WBT = Western Bering Sea Tanner crab, C/V = Catcher vessel, FC = Fishery closed, NA = Not applicable

<sup>a</sup>ADF&G staff lodge in state housing when available. Costs for contract observer transportation and room and board, except travel to remote ports, are included in the contract cost of \$341/day.

<sup>c</sup>Observers frequently deploy more than once during a fishery.

<sup>d</sup>Range includes the single shortest observer deployment to the single longest deployment.

Table 9. The 2020/21 Bristol Bay red king crab, Eastern and Western Bering Sea Tanner crab, and Bering Sea snow crab catcher-processor observer deployment costs paid with test-fishery revenues.

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Number of deployments 5

Observer deployment days 221

Cost of observers \$ 22,608

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Table 10. Summary of FY21 Bering Sea crab fisheries C/V and C/P observer deployment and program support costs paid with Bristol Bay red king crab test-fishery revenues.

	Source of Cost			
	ADF&G	Contract		
<i>OBSERVER DEPLOYMENT COSTS</i>				
Number of deployments	-	43	Total deployments	43
Observer deployment days	-	1,571	Total deployment days	1,571
Cost of observers	\$ -	\$ 200,592	Total observer personnel	\$ 200,592
Non-remote deployment expenses	\$ -	\$ 247	Total non-remote	\$ 247
Remote deployment expenses	\$ -	\$ -	Total remote	\$ -
			Total deployment costs	\$ 200,839
<i>OBSERVER PROGRAM SUPPORT COSTS</i>				
Office overhead (supplies, equipment, phone, internet)	\$ 3,572		Total supplies and equipment	\$ 3,572
Administrative				
Travel and per diem	\$ 2,238		Total administration	\$ 2,238
Cost-recovery test fishery (personnel)	\$ 5,377		Total cost-recovery	\$ 5,377
Office personnel salaries and benefits	\$ 196,959		Total office personnel	\$ 196,959
			Total program support costs	\$ 208,145
			Bristol Bay test-fishery budget expenditures	\$ 408,984

Table 11. Summary of FY21 Aleutian Islands golden king crab test-fishery account revenues and expenses. \*As of 6/30/21.

Observer program test fishery budget allocation	
Test-fishery account balance carried forward from FY20 into FY21	\$ 135,000
Test-fishery revenue	\$ 300,000
Sum of carry forward and revenue	\$ 435,000
Test-fishery expenditures	\$ 293,387
Test-fishery account funds to be carried forward from FY21 for start up funds in FY22	<u>\$ 141,613</u>

Table 12. Observer deployment and program support costs funded with Aleutian Islands test-fishery revenues.

Fiscal Year	Observer deployment costs		Program support costs				Totals
	EAG and WAG C/V		Office overhead	Admin	Cost-rec	Office personnel	Total expenses
FY18	\$ 177,731		\$ -	\$ -	\$ 3,410	\$ 129,332	\$ 310,473
FY19	\$ 158,492		\$ 6,168	\$ -	\$ 6,004	\$ 85,022	\$ 255,685
FY20	\$ 177,047		\$ 4,068		\$ 2,225	\$ 92,541	\$ 275,881
FY21	\$ 191,642		\$ -	\$ 569	\$ 4,824	\$ 106,281	\$ 303,316

*Note:* EAG = Eastern Aleutian Islands golden king crab, WAG = Western Aleutian Islands golden king crab, and C/V = Catcher vessel

Table 13. Summary of FY21 Aleutian Islands golden king crab fisheries observer deployment and program support costs paid with Eastern Aleutian Islands golden king crab test-fishery revenues.

	Source of Cost			
	ADF&G	Contract		
<i>OBSERVER DEPLOYMENT COSTS</i>				
Number of deployments	-	11	Total deployments	11
Observer deployment days	-	562	Total deployment days	562
Cost of observers	\$ -	\$ 191,642	Total observer personnel	\$ 191,642
Remote deployment expenses	\$ -	\$ -	Total remote	\$ -
			Total deployment costs	\$ 191,642
<i>PROGRAM SUPPORT COSTS</i>				
Office overhead (supplies, equipment, phone, internet)	\$ -		Total supplies and equipment	\$ -
Administrative				
Travel and per diem	\$ 569		Total administration	\$ 569
Cost-recovery test fishery (personnel)	\$ 4,824.00		Total cost-recovery	\$ 4,824
Office personnel salaries and benefits	\$ 106,281		Total office personnel	\$ 106,281
			Total program support costs	\$ 111,674
			Aleutian Islands test-fishery account expenditures	\$ 303,316