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

Fishery	Preseason registration deadline ^a	Catcher vessels (C/V)		Catcher processors (C/P)	
		Observer coverage	Observer costs funded ^b	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% ^c	yes	100%	20% ^d
Eastern Bering Sea Tanner crab (EBT)	Sep-24	30–100% ^c	yes	100%	30% ^d
Western Bering Sea Tanner crab (WBT)	Sep-24	30–100% ^c	yes	100%	30% ^d
Bering Sea snow crab (BSS)	Sep-24	30-100% ^c	yes	100%	30% ^d
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% ^e	yes	100%	no
Western Aleutian Islands golden king crab (WAG)	none	50% ^e	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

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

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

^c 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.

^d 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.

^e 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. FY22 Observer coverage levels by fishery.

2021/22 BBR Observed Summary *fishery closed					
Observers Onboard	% Vessels Obs	Landed Weight	% Weight Obs	Days at Sea	% Days at Sea
Not Observed					
Observed					

2021/22 BSS Observed Summary					
Observers Onboard	% Vessels Obs	Landed Weight	% Weight Obs	Days at Sea	% Days at Sea
Not Observed	-	3,565,555	64.26%	798	71.21%
Observed	26%	1,982,683	35.74%	407	28.79%

2021/22 WBT Observed Summary					
Observers Onboard	% Vessels Obs	Landed Weight	% Weight Obs	Days at Sea	% Days at Sea
Not Observed	-	714,870	65.60%	392	51.03%
Observed	39%	374,837	34.40%	179	48.97%

2021/22 EBT Observed Summary *fishery closed					
Observers Onboard	% Vessels Obs	Landed Weight	% Weight Obs	Days at Sea	% Days at Sea
Not Observed					
Observed					

2021/22 EAG Observed Summary				
Observers Onboard		Landed Weight (sum)	Landed Weight Observed	% Observed
1st Trimester				
Observed		2,782,862	1,322,192	48%
2nd Trimester				
Observed		758,082	542,398	72%
3rd Trimester				
Observed		fishery concluded		

2021/22 WAG Observed Summary				
Observers Onboard		Landed Weight (sum)	Landed Weight Observed	% Observed
1st Trimester				
Observed		635,504	307,106	48%
2nd Trimester				
Observed		746,181	579,081	78%
3rd Trimester *including season extension				
Observed		807,315	355,218	44%

Table 2. Summary of FY22 Bristol Bay red king crab test-fishery account revenues and expenses. *As of 6/2/22.

<u>Bering Sea test-fishery budget allocation</u>	
Test-fishery account balance carried forward from FY21 into FY22	\$ 651,000
Test-fishery revenue	\$ 500,000
Sum of carry forward and revenue	\$ 1,151,000
Test-fishery expenditures	\$ 138,585
Test-fishery account funds to be carried forward from FY22 for start up funds in FY23	<u>\$ 1,012,415</u>

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

Fiscal Year	BBR				BSS				EBT ^c				WBT ^c			
	# C/Vs preseason registered ^a	registered C/V effort	# C/Vs observed	% C/Vs observed	# C/Vs preseason registered ^a	registered C/V effort	# C/Vs observed	% C/Vs observed	# C/Vs preseason registered ^a	registered C/V effort	# C/Vs observed	% C/Vs observed	# C/Vs preseason registered ^a	registered C/V effort	# C/Vs observed	% C/Vs observed
FY18	78	61	16	26 ^f	78	59	15	25 ^f	71	FC	FC	FC	74	30	12	40 ^f
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
FY22	51	FC	FC	FC	70	42	11	26	60	FC	FC	FC	63	18	7	39

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

^a 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.

^c 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.

^f 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 4. Observer deployment and program support costs funded with Bristol Bay test-fishery revenues. This table does not reflect observer program costs paid with crab rationalization federal fee reimbursements.

Fiscal Year	Observer deployment costs				Program support costs				Total
	BBR C/V	BSS C/V	EBT and WBT C/V	BBR, BSS, EBT, and WBT C/P	Office overhead	Admin	Cost-rec	Office personnel	Total expenses
FY18	\$ 38,328	\$ 73,761	\$ 27,127	\$ 19,539	\$ 35,052	\$ 4,593	\$ 8,275	\$ 303,106	\$ 509,781
FY19	\$ 30,644	\$ 124,064	\$ 34,183	\$ 10,946	\$ 718	\$ 5,913	\$ 6,004	\$ 341,951	\$ 554,423
FY20	\$ 35,491	\$ 179,422	FC	\$ 13,299	\$ 11,445	\$ 5,024	\$ 3,700	\$ 230,092	\$ 478,473
FY21	\$ 17,503	\$ 143,433	\$ 17,295	\$ 22,608	\$ 3,572	\$ 2,238	\$ 5,377	\$ 196,959	\$ 408,984
FY22	\$ -	\$ 37,018	\$ 20,570	\$ 2,558	\$ 110	\$ -	\$ 4,004	\$ 197,849	\$ 262,108

% observer C/V deployment costs by fishery

	BBR	BSS	WBT
FY20	16%	84%	FC
FY21	10%	80%	10%
FY22	0%	64%	36%

Table 5. The 2021/22 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	0	0	Total deployments 0
Observer deployment days	0	0	Total deployment days 0
Cost of observers ^a		\$ -	Total observer personnel \$ -
Expenses per source between Anchorage and Dutch Harbor for transportation, and room and board ^a	\$ -	\$ -	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) ^c	Deployment duration range (days) ^d
2017/18	93	18	8-32
2018/19	93	18	7-23
2019/20	93	17	7-25
2020/21	93	11	6-23
2021/22	FC	FC	FC

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

^a 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.

^c Observers frequently deploy more than once during a fishery.

^d Range includes the single shortest observer deployment to the single longest deployment.

Table 6. The 2021/22 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	11	Total deployments 11
Observer deployment days	0	287	Total deployment days 287
Cost of observers ^a	\$ -	\$ 32,619	Total observer personnel ^f \$ 32,619
Expenses per source between Anchorage and Dutch Harbor for transportation, and room and board ^a	\$ -	\$ -	Total non-remote \$ -
Expenses per source between Dutch Harbor and remote ports for transportation, and room and board	\$ -	\$ 4,399	Total remote \$ 4,399
			Total costs \$ 37,018

Average C/V observer deployment lengths since 2017/18			
Season	Fishery length (days)	Average deployment length (days) ^c	Deployment duration range (days) ^d
2017/18	229	40	17-75
2018/19	229	39	4-86
2019/20	229	57	15-103
2020/21	229	60	12-144
2021/22	229	27	5-58

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

^aADF&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.

^cObservers frequently deploy more than once during a fishery.

^dRange includes the single shortest observer deployment to the single longest deployment.

Table 7. The 2021/22 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		Total deployments 0
Observer deployment days	0		Total deployment days 0
Cost of observers ^a	\$ -	\$ -	Total observer personnel \$ -
Expenses per source between Anchorage and Dutch Harbor for transportation, and room and board ^a	\$ -	\$ -	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) ^c	Deployment duration range (days) ^d
2017/18	FC	NA	NA
2018/19	FC	NA	NA
2019/20	FC	NA	NA
2020/21	FC	NA	NA
2021/22	FC	NA	NA

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

^aADF&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.

^cObservers frequently deploy more than once during a fishery.

^dRange includes the single shortest observer deployment to the single longest deployment.

Table 8. The 2021/22 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	137	Total deployment days 137
Cost of observers ^a	\$ -	\$ 15,571	Total observer personnel \$ 15,571
Expenses per source between Anchorage and Dutch Harbor for transportation, and room and board ^a	\$ -		Total non-remote \$ -
Expenses per source between Dutch Harbor and remote ports for transportation, and room and board	\$ -	\$ 4,999	Total remote \$ 4,999
			Total costs \$ 20,570
Average C/V observer deployment lengths since 2017/18			
Season	Fishery length (days)	Average deployment length (days) ^c	Deployment duration range (days) ^d
2017/18	168	18	7-73
2018/19	168	17	4-27
2019/20	FC	NA	NA
2020/21	168	21	12-34
2021/22	168	17	10-25

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

^aADF&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.

^cObservers frequently deploy more than once during a fishery.

^dRange includes the single shortest observer deployment to the single longest deployment.

Table 9. The 2021/22 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.

Number of deployments _____ 3

Observer deployment days _____ 25

Cost of observers \$ 2,558

Table 10. Summary of FY22 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	-	21	Total deployments
Observer deployment days	-	427	Total deployment days
Cost of observers	\$ -	\$ 50,747	Total observer personnel
Non-remote deployment expenses	\$ -	\$ -	Total non-remote
Remote deployment expenses	\$ -	\$ 9,398	Total remote
			Total deployment costs
			\$ 60,145
<i>OBSERVER PROGRAM SUPPORT COSTS</i>			
Office overhead (supplies, equipment, phone, internet)			Total supplies and equipment
			\$ 110
Administrative			Total administration
Travel and per diem			\$ -
Cost-recovery test fishery (personnel)			Total cost-recovery
			\$ 4,004
Office personnel salaries and benefits			Total office personnel
			\$ 197,849
			Total program support costs
			\$ 201,963
			Bristol Bay test-fishery budget expenditures
			\$ 262,108

Table 11. Summary of FY22 Aleutian Islands golden king crab test-fishery account revenues and expenses. *As of 6/2/22.

Observer program test fishery budget allocation	
Test-fishery account balance carried forward from FY21 into FY22	\$ 131,000
Test-fishery revenue	\$ 300,000
Sum of carry forward and revenue	\$ 431,000
Test-fishery expenditures	\$ 286,614
Test-fishery account funds to be carried forward from FY22 for start up funds in FY23	<u>\$ 144,386</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
FY22	\$ 151,333		\$ 262	\$ -	\$ -	\$ 197,849	\$ 349,444

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

Table 13. Summary of FY22 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	-	9	Total deployments 9
Observer deployment days	-	443	Total deployment days 443
Cost of observers	\$ -	\$ 151,063	Total observer personnel \$ 151,063
Remote deployment expenses	\$ -	\$ 270	Total remote \$ 270
			Total deployment costs \$ 151,333
<i>PROGRAM SUPPORT COSTS</i>			
Office overhead (supplies, equipment, phone, internet)	\$ -		Total supplies and equipment \$ 262
Administrative			
Travel and per diem			Total administration \$ -
Cost-recovery test fishery (personnel)			Total cost-recovery \$ -
Office personnel salaries and benefits			Total office personnel \$ 197,849
			Total program support costs \$ 198,111
			Aleutian Islands test-fishery account expenditures \$ 349,444