Project CROOS
Time Period 1 : May 15th– May30th, 2013

Period 1 Sample Statistics

	NOC	SOC	KMZ
Number hours fished	132.4	128.2	0.0
Fish caught per hour effort (CPUE)	0.40	1.03	NA
Number legal-sized fish sampled	53	132	0
Numbers of fish genotyped	53	132	0
Percent of fish genotyped	100%	100%	NA

To the right, aggregate catch in CPUE (red) and aggregate effort (blue) is shown for the first time period. To protect individual fisherman's data, aggregate catch maps are not shown if fewer than 3 vessels were fishing in a zone in this time period. The average catch per hour in the NOC (0.40) was lower than this time in 2012 (0.75). The average catch per hour for SOC (1.03) was slightly higher than this time in 2012 (0.92).
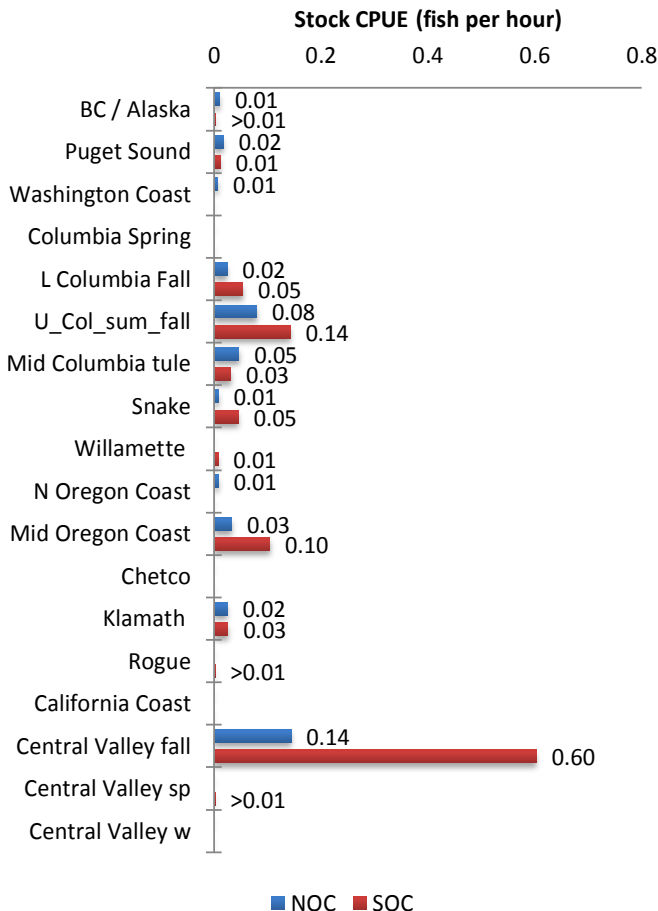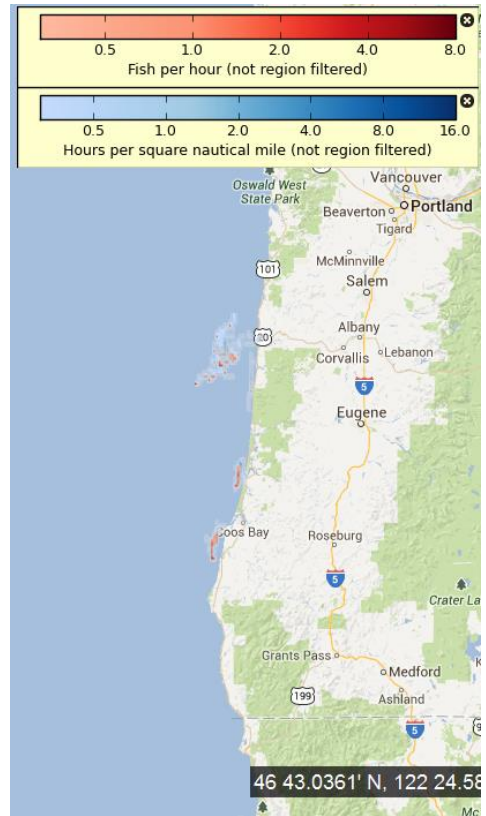
Stock CPUE (fish per hour)

Stock	NOC	SOC
BC / Alaska	0.01	>0.01
Puget Sound	0.02	0.01
Washington Coast	0.01	
Columbia Spring		
L Columbia Fall	0.02	0.05
U_Col_sum_fall	0.08	0.14
Mid Columbia tule	0.05	0.03
Snake	0.01	0.05
Willamette		
N Oregon Coast	0.01	0.01
Mid Oregon Coast	0.03	0.10
Chetco		
Klamath	0.02	0.03
Rogue		>0.01
California Coast		
Central Valley fall	0.14	0.60
Central Valley sp		>0.01
Central Valley w		

■ NOC ■ SOC

Shown to the left, effort, catch and genetic stock identification results are combined to generate "catch per hour per stock" estimates

In the first time period, Central Valley fall was the dominant component of harvest for the NOC and SOC. In the NOC and the SOC the second largest component of harvest was Upper Columbia Summer and Fall..

NOC=Northern Oregon Coast
(Cape Falcon to Florence Jetty)
SOC=Southern Oregon Coast
(Florence Jetty to Humbug Mtn)
KMZ=Klamath Management Zone
(Humbug Mtn to OR/CA boarder)

Project CROOS
May Historical Data

May CROOS Sample Statistics

	2010	2011	2012	2013
Number days fished	184	89	304	43
Fish caught per boat day (CPUE)	4.66	5.56	11.55	4.11
Number legal-sized fish sampled	811	1410	3613	185

Here we show the combined (2010, 2011, 2012, 2013) May CPUEs for 9 stock groups estimated from GSI sampling.. GSI data show Central Valley Fall stock was nearly absent from Oregon fisheries in 2010. It is starting to make a comeback in 2012 an 2013.

**CROOS Chinook Total Catch
Stock CPUE (fish per boat day)**
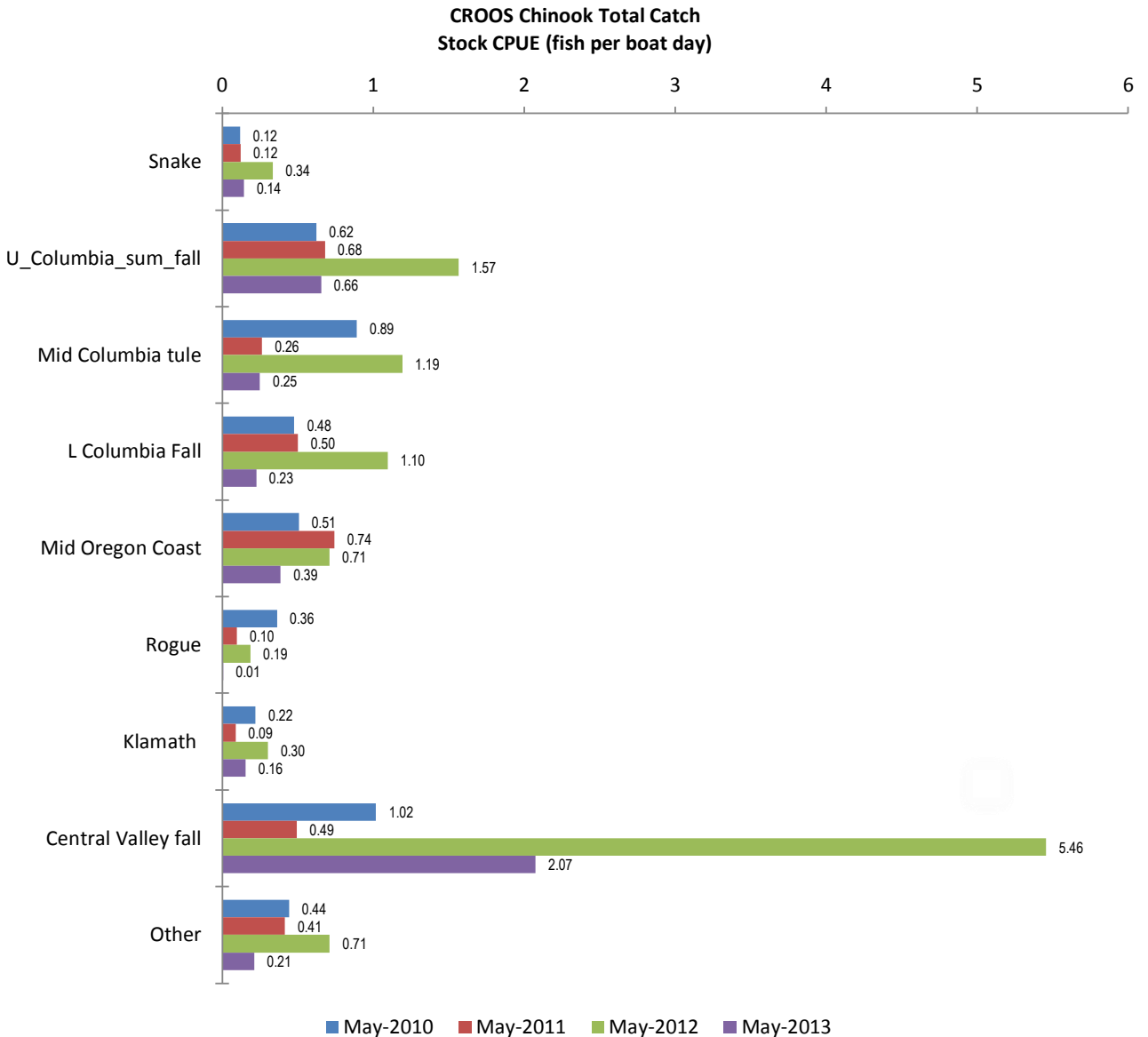
Project CROOS
Time Period 2 : June1st– June30th, 2013

Period 2 Sample Statistics

	NOC	SOC	KMZ
Number hours fished	222.7	303.8	0.0
Fish caught per hour effort (CPUE)	0.75	0.81	NA
Number legal-sized fish sampled	168	247	0
Numbers of fish genotyped	168	247	0
Percent of fish genotyped	100%	100%	100%

To the right, aggregate catch in CPUE (red) and aggregate effort (blue) is shown for the second period. To protect individual fisherman's data, aggregate catch maps are not shown if fewer than 3 vessels were fishing in a zone in this time period. The average catch per hour in the NOC (0.75) was slightly lower than this time in 2012 (0.82). The average catch per hour for SOC (0.81) was higher than this time in 2012 (0.60).
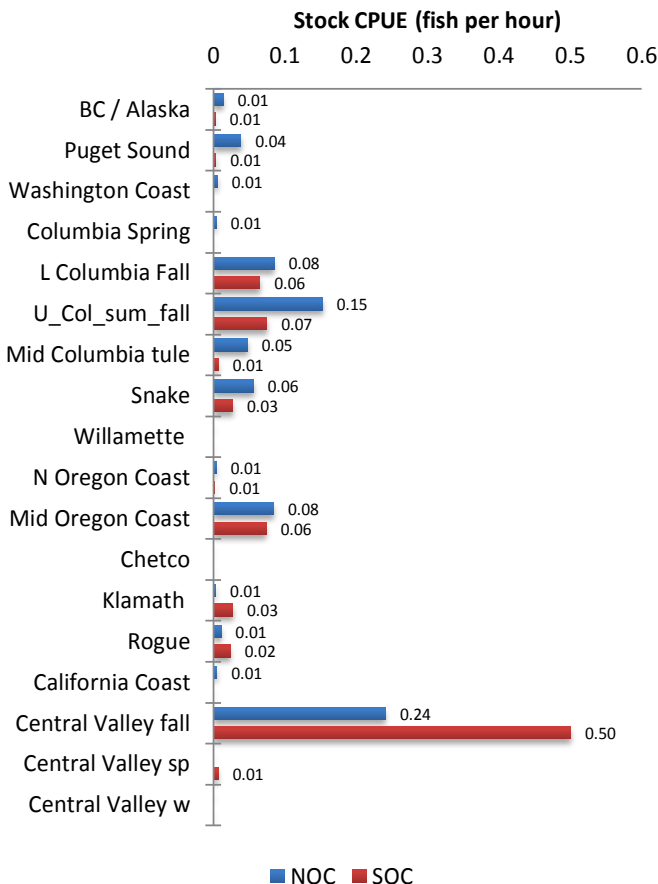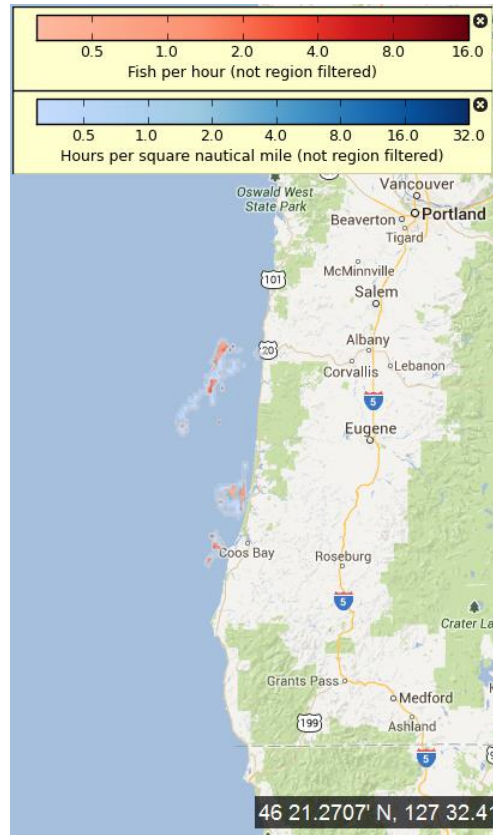
Stock CPUE (fish per hour)

■ NOC ■ SOC

Shown to the left, effort, catch and genetic stock identification results are combined to generate "catch per hour per stock" estimates

In the second time period, Central Valley fall was the dominant component of harvest for the NOC and SOC. In the NOC and the SOC the second largest component of harvest was Upper Columbia Summer and Fall.

NOC=Northern Oregon Coast (Cape Falcon to Florence Jetty)
SOC=Southern Oregon Coast (Florence Jetty to Humbug Mtn)
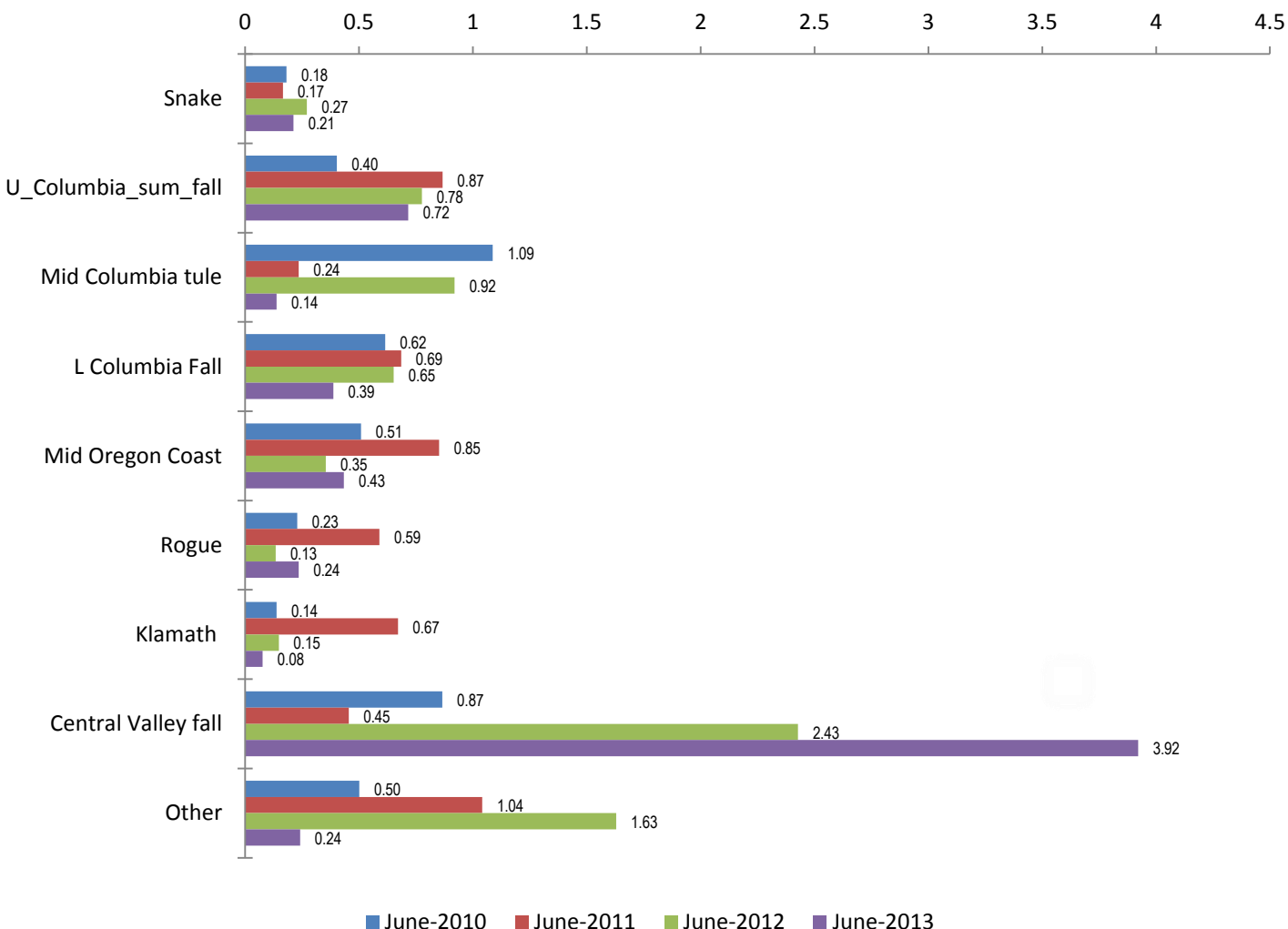**KMZ**=Klamath Management Zone (Humbug Mtn to OR/CA boarder)

Project CROOS
June Historical Data

June CROOS Sample Statistics

	2010	2011	2012	2013
Number days fished	389	257	255	68
Fish caught per boat day (CPUE)	4.53	3.07	6.02	6.06
Number legal-sized fish sampled	1368	1410	1535	415

Here we show the combined (2010, 2011, 2012, 2013) June CPUEs for 9 stock groups estimated from GSI sampling.. GSI data show Central Valley Fall stock in 2013 has higher CPUE in the month of June compared to last year, while the Klamath and Rogue stocks seen in June 2010 are less predominant than in 2012 and 2013.

CROOS Chinook Total Catch
**Stock CPUE (fish per boat day)**

Stock	June-2010	June-2011	June-2012	June-2013
Snake	0.18	0.17	0.27	0.21
U_Columbia_sum_fall	0.40	0.87	0.78	0.72
Mid Columbia tule	1.09	0.24	0.92	0.14
L Columbia Fall	0.62	0.69	0.65	0.39
Mid Oregon Coast	0.51	0.85	0.35	0.43
Rogue	0.23	0.59	0.13	0.24
Klamath	0.14	0.67	0.15	0.08
Central Valley fall	0.87	0.45	2.43	3.92
Other	0.50	1.04	1.63	0.24

Project CROOS
Time Period 3 : July 1st– July31st, 2013

Period 3 Sample Statistics

	NOC	SOC	KMZ
Number hours fished	209.6	156.3	45
Fish caught per hour effort (CPUE)	1.23	1.34	1.82
Number legal-sized fish sampled	258	210	82
Numbers of fish genotyped	258	210	82
Percent of fish genotyped	100%	100%	100%

To the right, aggregate catch in CPUE (red) and aggregate effort (blue) is shown for the third time period. To protect individual fisherman's data, aggregate catch maps are not shown if fewer than 3 vessels were fishing in a zone in this time period. The average catch per hour in the NOC (1.23) was higher than this time in 2012 (1.06). The average catch per hour for SOC (1.34) was higher than this time in 2012 (0.63). The average catch per hour in the KMZ (1.82) was higher than this time in 2012(1.57)
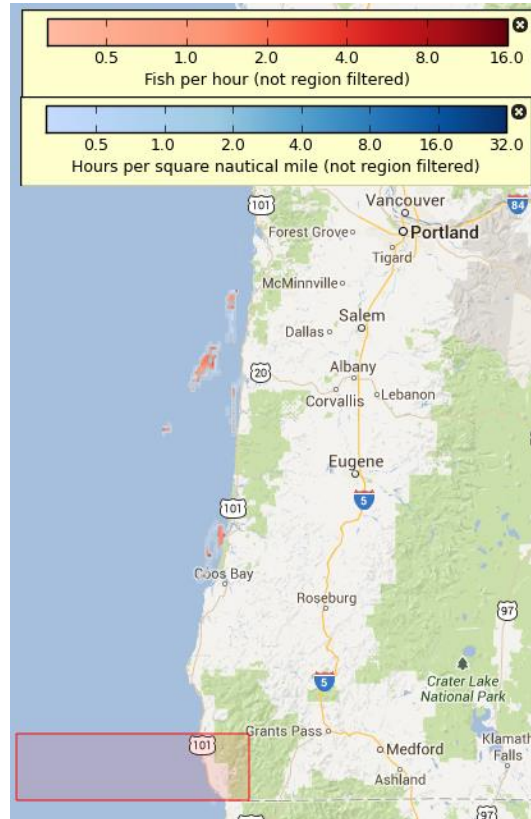
Stock CPUE (fish per hour)

■ NOC ■ SOC ■ KMZ

Shown to the left, effort, catch and genetic stock identification results are combined to generate "catch per hour per stock" estimates
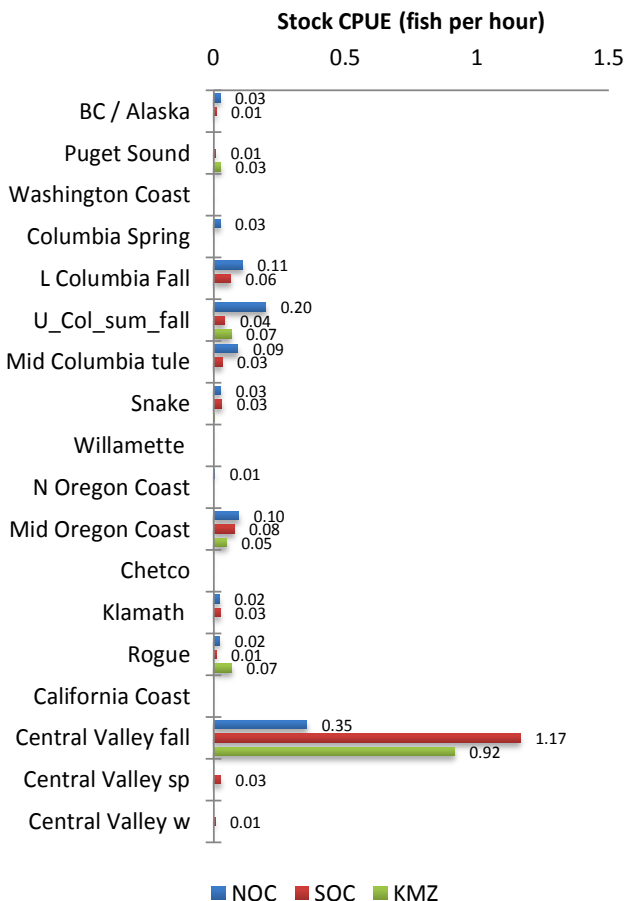
In the third time period, Central Valley fall was the dominant component of harvest for the NOC, SOC and KMZ. In the NOC the second largest component of harvest was Upper Columbia Fall, in the SOC Mid Oregon Coast and in the KMZ Upper Columbia Fall and Rogue.

NOC=Northern Oregon Coast (Cape Falcon to Florence Jetty)
SOC=Southern Oregon Coast (Florence Jetty to Humbug Mtn)
**KMZ**=Klamath Management Zone (Humbug Mtn to OR/CA boarder)

Project CROOS
July Historical Data
July CROOS Sample Statistics

	2010	2011	2012	2013
Number days fished	128	61	65	64
Fish caught per boat day (CPUE)	3.81	3.07	7.52	8.59
Number legal-sized fish sampled	488	187	489	550

Here we show the combined (2010, 2011, 2012, 2013) July CPUEs for 9 stock groups estimated from GSI sampling.. GSI data show Central Valley Fall stock was nearly absent from Oregon fisheries in 2010 and 2011. It is starting to make a comeback in 2012 an 2013. Mid Columbia tule and Klamath stocks are not as predominant as seen in 2012 at this time period.

CROOS Chinook Total Catch
### Stock CPUE (fish per boat day)
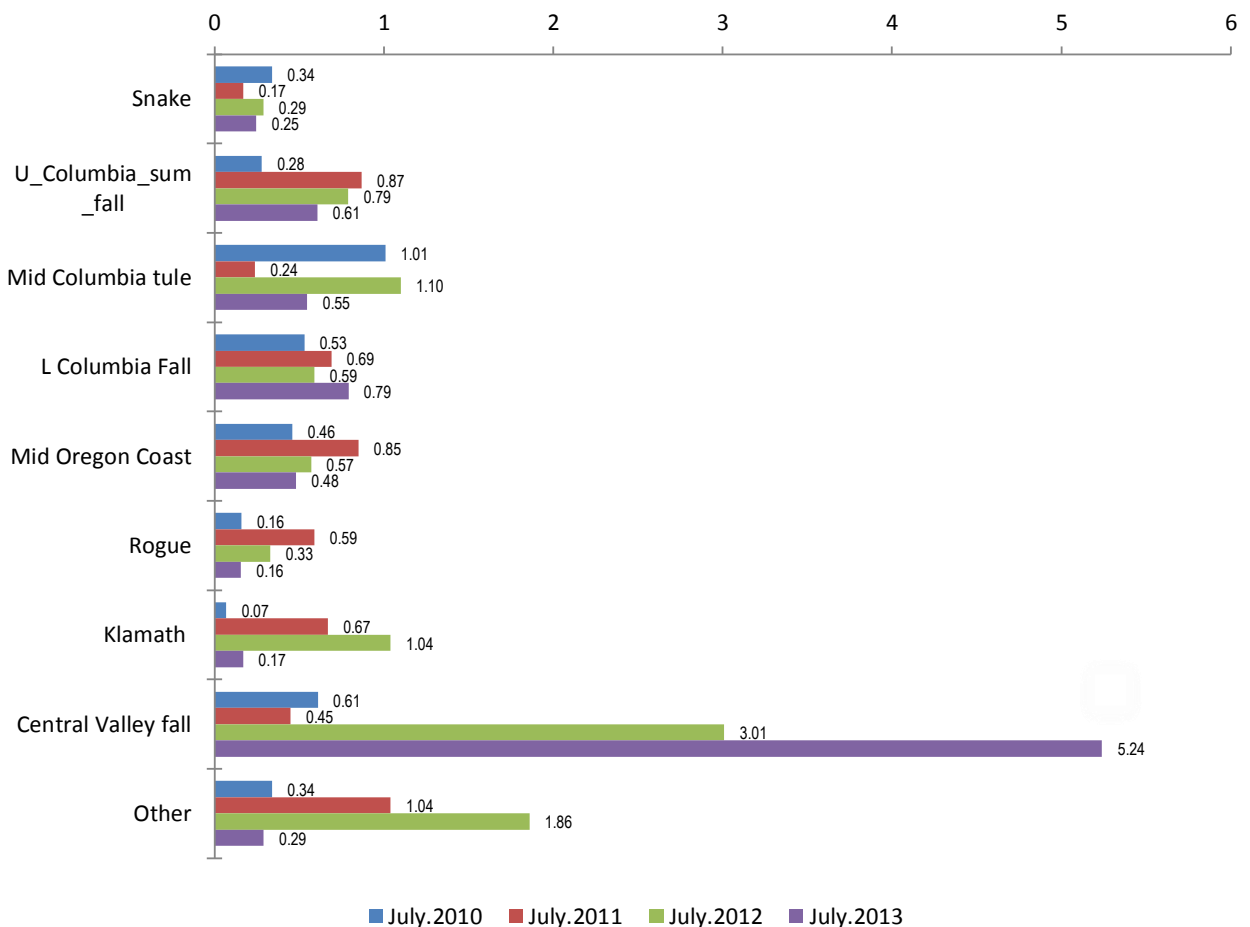
Project CROOS
Time Period 4 : August 1st– August 31st, 2013

Period 4 Sample Statistics

	NOC	SOC	KMZ
Number hours fished	88.8	183.8	16.8
Fish caught per hour effort (CPUE)	0.98	1.51	1.13
Number legal-sized fish sampled	87	278	19
Numbers of fish genotyped	87	278	19
Percent of fish genotyped	100%	100%	100%

To the right, aggregate catch in CPUE (red) and aggregate effort (blue) is shown for the fourth period. To protect individual fisherman's data, aggregate catch maps are not shown if fewer than 3 vessels were fishing in a zone in this time period. The average catch per hour in the NOC (0.98) was lower than this time in 2012 (1.28). The average catch per hour for SOC (1.51) was higher than this time in 2012 (0.93). The average catch per hour for the KMZ was (1.13) was lower than this time in 2012 (2.57)
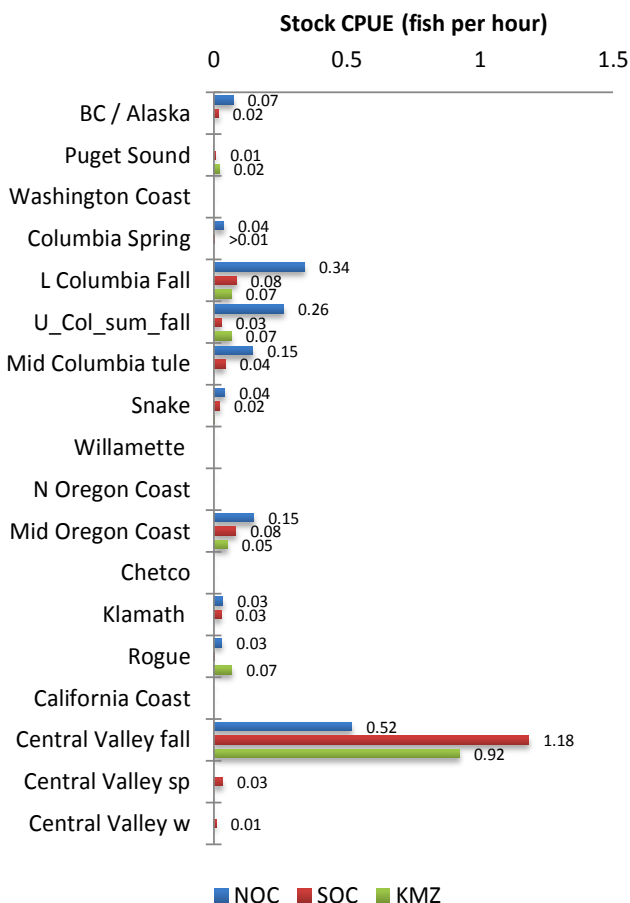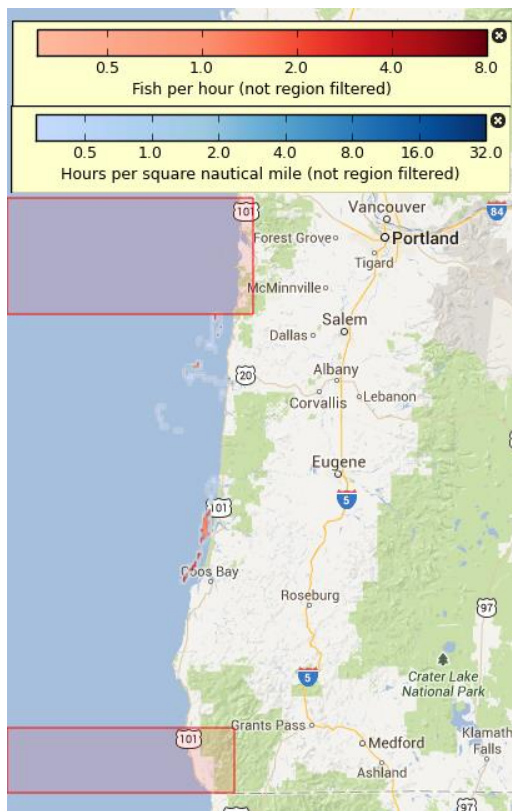
Shown to the left, effort, catch and genetic stock identification results are combined to generate "catch per hour per stock" estimates

In the fourth time period, Central Valley fall was the dominant component of harvest for the NOC, SOC and KMZ. In the NOC the second largest component of harvest was Lower Columbia Summer and Fall. In the SOC the second largest component of harvest was split between Lower Columbia Fall and Mid Oregon Coast. In the KMZ the second largest component of harvest was Lower Columbia Fall and Upper Columbia Summer and Fall.

NOC=Northern Oregon Coast
(Cape Falcon to Florence Jetty)
SOC=Southern Oregon Coast
(Florence Jetty to Humbug Mtn)
KMZ=Klamath Management Zone
(Humbug Mtn to OR/CA boarder)

Stock CPUE (fish per hour)

Project CROOS
August Historical Data

August CROOS Sample Statistics

	2010	2011	2012	2013
Number days fished	412	158	188	51
Fish caught per boat day (CPUE)	2.92	3.27	9.64	7.25
Number legal-sized fish sampled	1203	516	1812	384

Here we show the combined (2010, 2011, 2012, 2013) August CPUEs for 9 stock groups estimated from GSI sampling.. GSI data show Central Valley Fall stock in 2012 and 2013 have similar CPUE's in the month of August, while the Klamath and Rogue stocks are less predominant than in 2012.

CROOS Chinook Total Catch
**Stock CPUE (fish per boat day)**
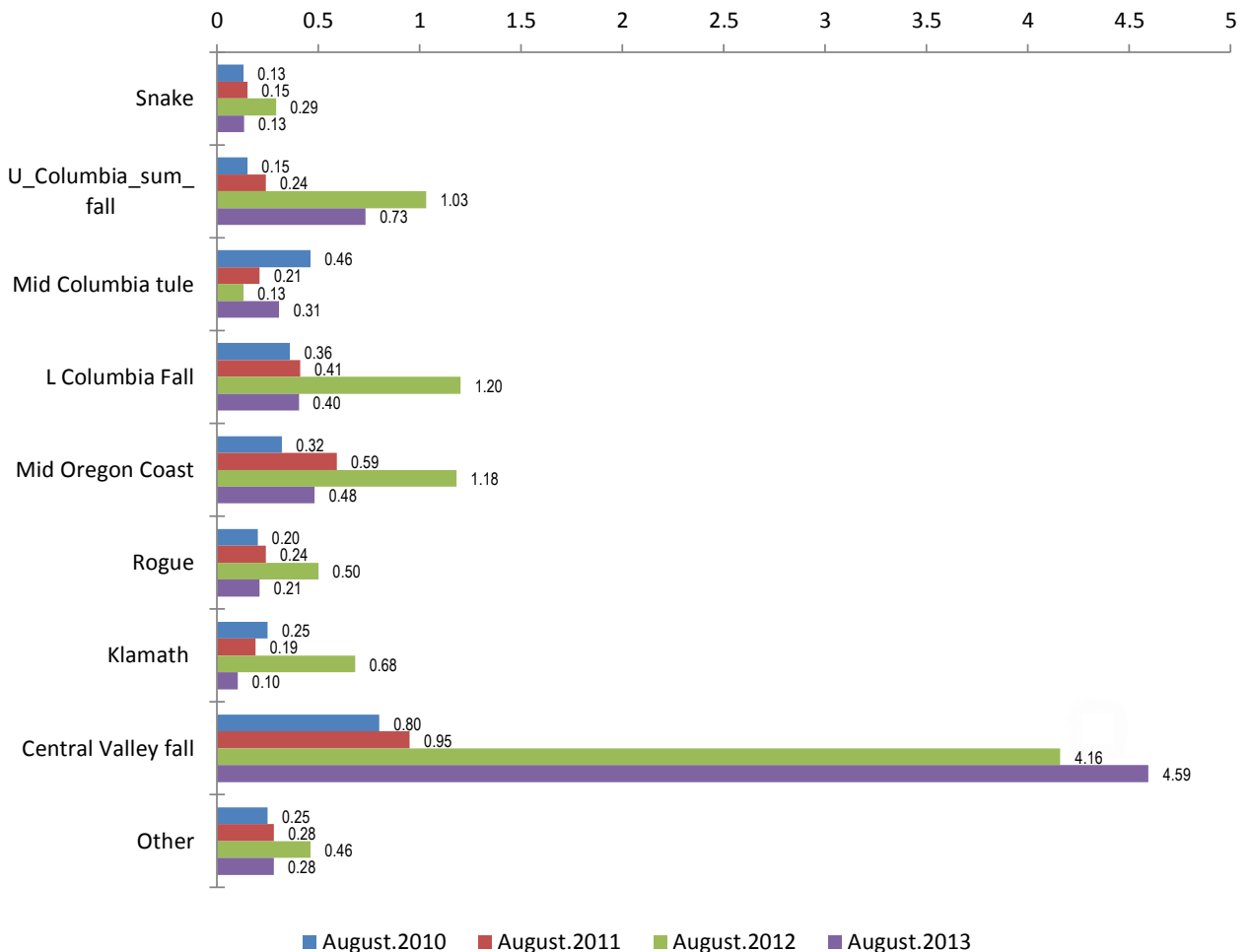
Project CROOS
Time Period 5 : September 1st– September 30th, 2013

Period 5 Sample Statistics

	NOC	SOC	KMZ
Number hours fished	149.3	410.1	45.3
Fish caught per hour effort (CPUE)	0.64	1.91	0.53
Number legal-sized fish sampled	96	783	24
Numbers of fish genotyped	96	783	24
Percent of fish genotyped	100%	100%	100%

To the right, aggregate catch in CPUE (red) and aggregate effort (blue) is shown for the fifth period. To protect individual fisherman's data, aggregate catch maps are not shown if fewer than 3 vessels were fishing in a zone in this time period. The average catch per hour in the NOC (0.64) was lower than this time in 2012 (1.56). The average catch per hour for SOC (1.91) was higher than this time in 2012 (0.78). The average catch per hour for the KMZ was (0.53) was lower than this time in 2012 (3.88)
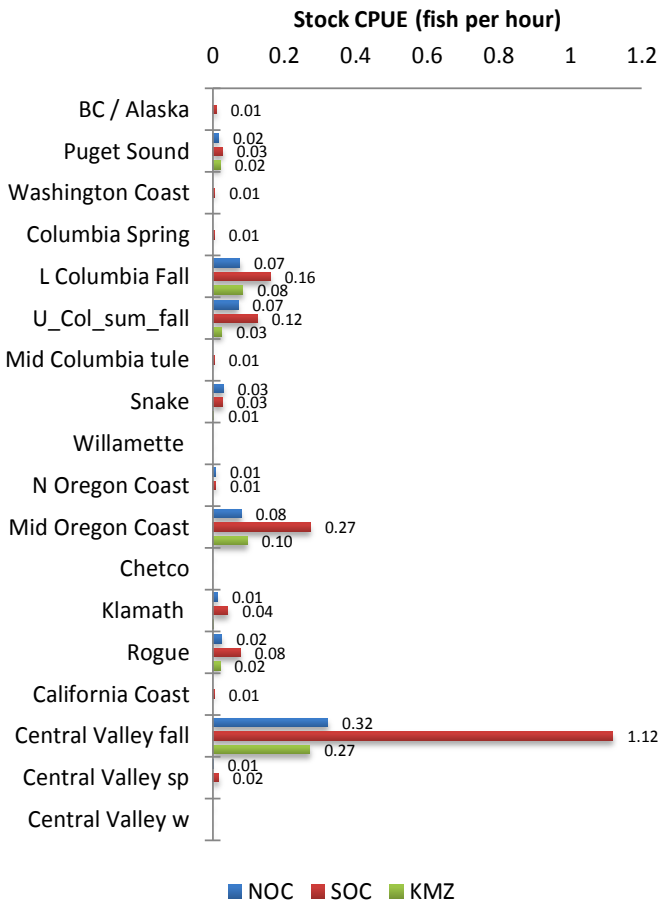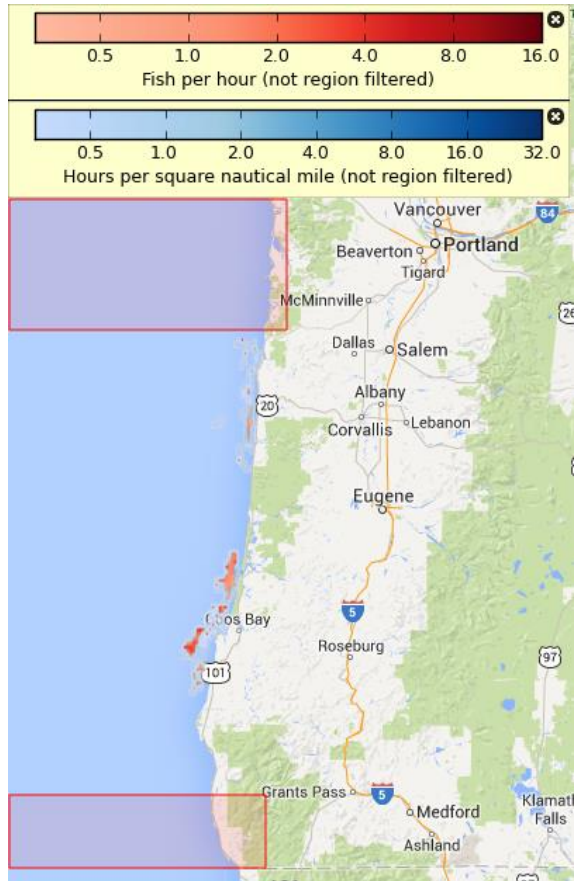
Shown to the left, effort, catch and genetic stock identification results are combined to generate "catch per hour per stock" estimates

In the fifth time period, Central Valley fall was the dominant component of harvest for the NOC, SOC and KMZ. The second largest component of harvest was Mid Oregon Coast.

NOC=Northern Oregon Coast
(Cape Falcon to Florence Jetty)
SOC=Southern Oregon Coast
(Florence Jetty to Humbug Mtn)
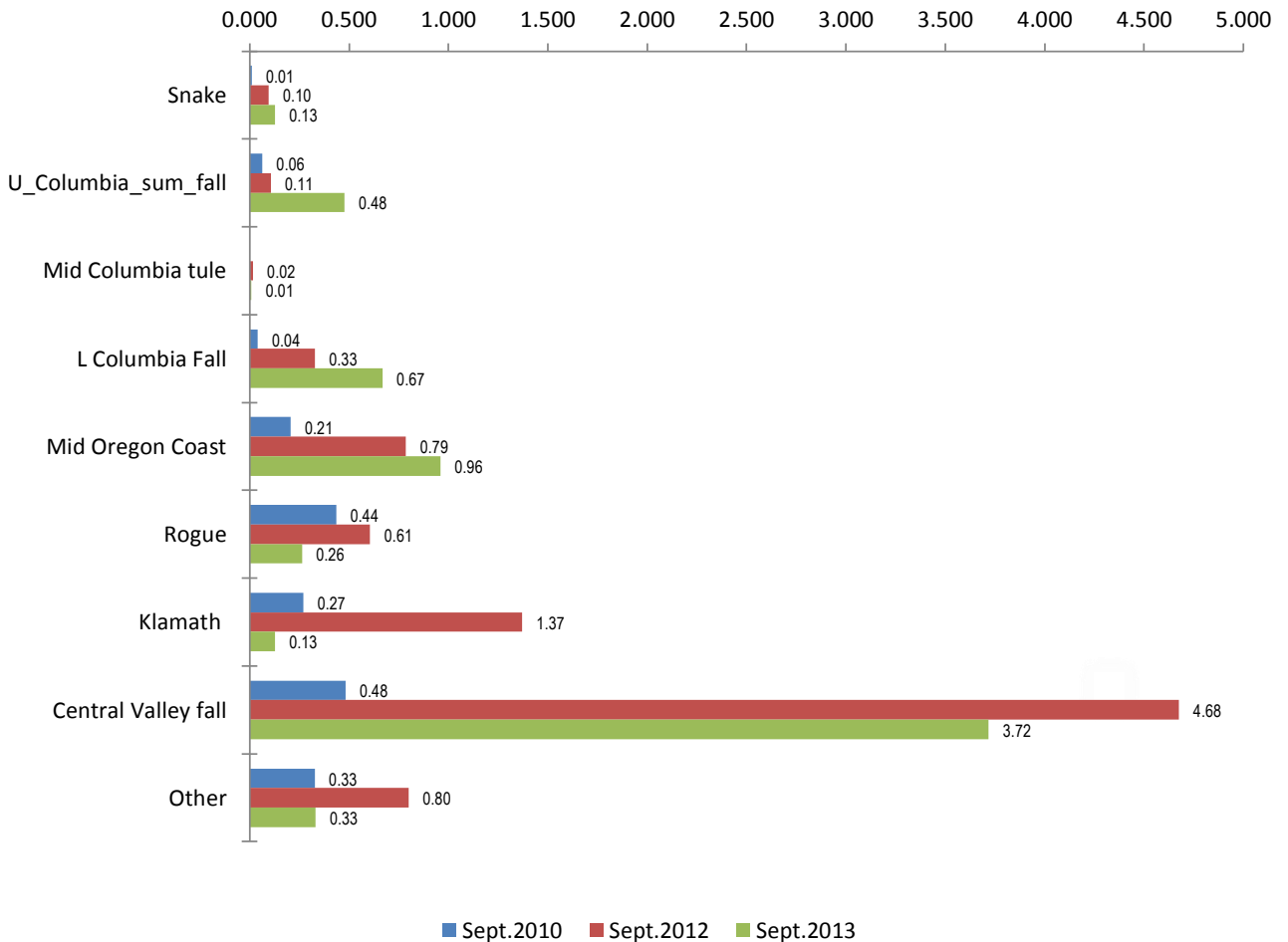**KMZ**=Klamath Management Zone
(Humbug Mtn to OR/CA boarder)

Stock CPUE (fish per hour)

NOC   SOC   KMZ

Project CROOS
September Historical Data
September CROOS Sample Statistics

	2010	2011	2012	2013
Number days fished	96	0	116	92
Fish caught per boat day (CPUE)	1.83	0	8.78	6.65
Number legal-sized fish sampled	176	0	852	903

Here we show the combined (2010, 2012, 2013) September CPUEs for 9 stock groups estimated from GSI sampling.. There was no sampling in September of 2011. GSI data show Central Valley Fall stock in 2012 and 2013 have similar CPUE's in the month of September, while catch rates were higher for Upper Columbia Summer Fall, Lower Columbia Fall and Mid Oregon Coast.

CROOS Chinook Total Catch
Stock CPUE (fish per boat day)

Stock	Sept.2010	Sept.2012	Sept.2013
Snake	0.01	0.10	0.13
U_Columbia_sum_fall	0.06	0.11	0.48
Mid Columbia tule		0.02	0.01
L Columbia Fall	0.04	0.33	0.67
Mid Oregon Coast	0.21	0.79	0.96
Rogue	0.44	0.61	0.26
Klamath	0.27	1.37	0.13
Central Valley fall	0.48	4.68	3.72
Other	0.33	0.80	0.33

■ Sept.2010 ■ Sept.2012 ■ Sept.2013

Project CROOS
Yearly Historical Data
CROOS Sample Statistics

	2010	2011	2012	2013
Number days fished	1209	565	928	318
Fish caught per boat day (CPUE)	3.55	3.74	8.70	6.53
Number legal-sized fish sampled	4046	3523	8301	2437

The table show the annual combined CPUEs for 2010, 2011, 2012 and 2013. Overall, CPUE in 2012 was higher than 2010 or 2011, but below the 2012 catch rate. The bar graph shows CPUEs for 9 stock groups estimated from GSI sampling. Central Valley stocks were caught at a similar, comparable to 2012. All other stock groups were caught at rates lower than 2012.

**CROOS Chinook Total Catch
Stock CPUE (fish per boat day)**

Stock	2010	2011	2012	2013
Snake	0.16	0.15	0.26	0.17
U_Columbia_sum_fall	0.30	0.66	0.85	0.63
Mid Columbia tule	0.69	0.24	0.67	0.25
L Columbia Fall	0.40	0.57	0.77	0.50
Mid Oregon Coast	0.40	0.76	0.72	0.55
Rogue	0.28	0.38	0.35	0.18
Klamath	0.19	0.41	0.71	0.13
Central Valley fall	0.76	0.59	3.95	3.91
Other	0.37	0.69	1.09	0.27

■ 2010 ■ 2011 ■ 2012 ■ 2013