

## NOAA's National Marine Fisheries Service (NMFS)



## Landings per Unit Effort (LPUE) for Scallop Access Areas 2009-2014

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**Version:** 1.0

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**Presented by:** B. Galuardi

## Background & Purpose

The Scallop Plan Development Team requested a landing per unit effort calculation for all access and open areas. The purpose is to analyze interannual trends within access areas.

## Analysis Parameters

Effort was calculated as days charged within a Days-at-sea context. Days were calculated on a tripwise basis according to crossing of the VMS demarcation line.

**Table 2**

<b>Parameter</b>	<b>Definition</b>	<b>Notes</b>
<i>Data Sources</i>	DMIS tables	
<i>Dates</i>	2009-2014	
<i>Month X Gear Combinations</i>	All Scallop gear	
<i>Areas</i>	Scallop access areas+open area	
<i>Species</i>	Atlantic Sea Scallops	

## Results

### Trips and Pounds Summary

#### Scallop Fishing Year 2014

## [1] "Query Run on: 2014-10-14 17:00:58 by: Benjamin Galuardi"

#### LA

	Landed Pounds	Number of trips	Total Days	Average Trip Duration	LPUE
Closed Area 1	146	1	2	1.8278	80
Closed Area 2	1,768,679	166	1,255	7.5605	1,409
Nantucket Lightship	957,948	100	629	6.2869	1,524
Hudson Canyon	83,058	19	82	4.3264	1,010
Elephant Trunk	0	0	0	0	0
DelMarVa	2,674,188	273	1,315	4.8178	2,033
Open Area	19,439,861	1,101	8,668	7.8732	2,243

#### LAGC

	Landed Pounds	Number of trips	Total Days	Average Trip Duration	LPUE
Closed Area 1	0	0	0	0	0
Closed Area 2	0	0	0	0	0
Nantucket Lightship	1,906	3	4	1.2907	492
Hudson Canyon	0	0	0	0	0
Elephant Trunk	0	0	0	0	0
DelMarVa	235,894	387	318	0.8225	741
Open Area	1,405,581	3,006	2,548	0.8476	552

## Scallop Fishing Year 2013

### LA

	Landed Pounds	Number of trips	Total Days	Average Trip Duration	LPUE
Closed Area 1	489,637	85	657	7.7245	746
Closed Area 2	2,407,521	203	1,535	7.5621	1,568
Nantucket Lightship	1,862,924	184	1,004	5.4543	1,856
Hudson Canyon	2,795,486	383	2,840	7.4154	984
Elephant Trunk	0	0	0	0	0
DelMarVa	0	0	0	0	0
Open Area	26,793,224	1,410	10,181	7.2203	2,632

### LAGC

	Landed Pounds	Number of trips	Total Days	Average Trip Duration	LPUE
Closed Area 1	0	0	0	0	0
Closed Area 2	12,998	1	9	9.1743	1,417
Nantucket Lightship	38,252	64	56	0.8757	683
Hudson Canyon	634	6	10	1.6606	64
Elephant Trunk	0	0	0	0	0
DelMarVa	0	0	0	0	0
Open Area	2,410,585	4,919	3,852	0.7831	626

## Scallop Fishing Year 2012

### LA

	Landed Pounds	Number of trips	Total Days	Average Trip Duration	LPUE
Closed Area 1	4,918,575	406	3,040	7.4865	1,618
Closed Area 2	5,472,672	333	2,802	8.415	1,953
Nantucket Lightship	3,070,473	223	1,395	6.2539	2,202
Hudson Canyon	8,699,436	675	4,902	7.2615	1,775
Elephant Trunk	0	0	0	0	0
DelMarVa	196,225	24	217	9.0227	906
Open Area	28,127,128	1,267	10,087	7.9613	2,788

### LAGC

	Landed Pounds	Number of trips	Total Days	Average Trip Duration	LPUE
Closed Area 1	0	0	0	0	0
Closed Area 2	0	0	0	0	0
Nantucket Lightship	22,346	37	45	1.2269	492
Hudson Canyon	42,676	123	158	1.2832	270
Elephant Trunk	0	0	0	0	0
DelMarVa	1,353	5	9	1.7574	154
Open Area	2,964,520	5,787	4,022	0.695	737

## Scallop Fishing Year 2011

### LA

	Landed Pounds	Number of trips	Total Days	Average Trip Duration	LPUE
Closed Area 1	8,570,376	542	3,387	6.2487	2,531
Closed Area 2	2,879,122	181	1,337	7.3873	2,153
Nantucket Lightship	0	0	0	0	0
Hudson Canyon	5,786,273	408	2,420	5.9311	2,391
Elephant Trunk	928,268	155	1,495	9.645	621
DelMarVa	5,680,085	458	3,388	7.3983	1,676
Open Area	28,493,791	1,223	10,253	8.3833	2,779

### LAGC

	Landed Pounds	Number of trips	Total Days	Average Trip Duration	LPUE
Closed Area 1	27,273	47	60	1.2833	452
Closed Area 2	0	0	0	0	0
Nantucket Lightship	0	0	0	0	0
Hudson Canyon	346,691	602	466	0.7735	745
Elephant Trunk	1,340	10	16	1.6395	82
DelMarVa	13,306	64	90	1.4122	147
Open Area	2,498,858	5,963	3,757	0.6301	665

## Scallop Fishing Year 2010

### LA

	Landed Pounds	Number of trips	Total Days	Average Trip Duration	LPUE
Closed Area 1	0	0	0	0	0
Closed Area 2	0	0	0	0	0
Nantucket Lightship	5,630,166	381	2,441	6.4061	2,307
Hudson Canyon	0	0	0	0	0
Elephant Trunk	9,028,820	902	7,727	8.5668	1,168
DelMarVa	5,843,769	447	2,950	6.5989	1,981
Open Area	29,638,612	1,455	12,489	8.5833	2,373

### LAGC

	Landed Pounds	Number of trips	Total Days	Average Trip Duration	LPUE
Closed Area 1	0	0	0	0	0
Closed Area 2	0	0	0	0	0
Nantucket Lightship	245,919	476	517	1.0863	476
Hudson Canyon	0	0	0	0	0
Elephant Trunk	16,243	56	91	1.6211	179
DelMarVa	308,602	667	558	0.8367	553
Open Area	1,872,252	5,203	3,151	0.6056	594

## Scallop Fishing Year 2009

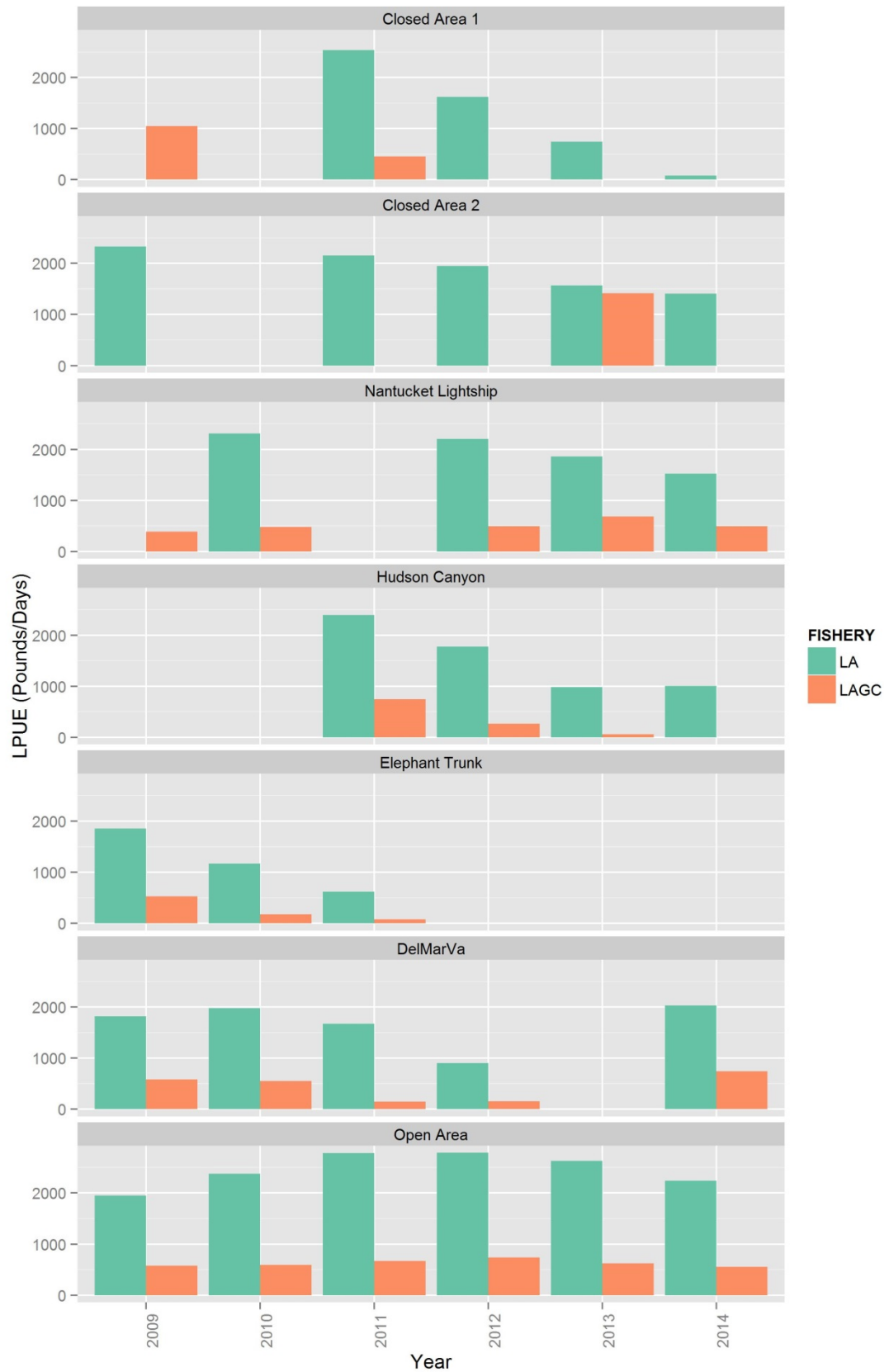
### LA

	Landed Pounds	Number of trips	Total Days	Average Trip Duration	LPUE
Closed Area 1	0	0	0	0	0
Closed Area 2	3,288,141	200	1,409	7.0454	2,334
Nantucket Lightship	0	0	0	0	0
Hudson Canyon	0	0	0	0	0
Elephant Trunk	16,292,184	1,240	8,786	7.0852	1,854
DelMarVa	5,355,394	422	2,943	6.9729	1,820
Open Area	24,108,835	1,394	12,383	8.8833	1,947

### LAGC

	Landed Pounds	Number of trips	Total Days	Average Trip Duration	LPUE
Closed Area 1	800	2	1	0.3823	1,046
Closed Area 2	0	0	0	0	0
Nantucket Lightship	400	1	1	1.0222	391
Hudson Canyon	0	0	0	0	0
Elephant Trunk	819,418	1,781	1,544	0.8672	531
DelMarVa	293,114	693	505	0.7281	581
Open Area	3,440,981	9,031	5,973	0.6613	576





# Analysis Accuracy Check

By J. Hermsen

## Query Programing

R code and SQL queries archived at

[File:///H:/Resource Conservation Projects\FY14 projects\Requests\BG PDT LPUE 2009-2014](File:///H:/Resource%20Conservation%20Projects/FY14%20projects/Requests/BG_PDT_LPUE_2009-2014)