

Received 3/2/06

ANNUAL SHELLFISH MANAGEMENT REVIEW
for the period
January 1st to December 31st, 2005

Municipality: WALDOBORO **Date:** 02/14/06

The Shellfish Conservation Committee submits the following information in partial fulfillment of its responsibilities under Chapter 7 of the Department of Marine Resources Regulations and the Shellfish Conservation Ordinance of this municipality.

Statement of Management Goals and Implementation Actions

The goals of shellfish management for this municipality have been: (check only one of each pair)

- 1) provide a harvesting opportunity for the maximum number of participants
 maximize individual harvest by minimizing the number of participants
- 2) increase the clam resource through various enhancement activities
 maintain a sustainable yield through the vigorous use of production controls
- 3) provide for recreational harvesting in preference to commercial harvesting
 provide for commercial harvesting in preference to recreational harvesting
- 4) maximize the economic value of the resource by adjusting production
 maintain a constant production to provide a steady but variable income

The following management controls were utilized: (check all that apply)

- limit the number of commercial harvesters
- limit the number of recreational harvesters
- restrict times of harvest
- restrict the areas of harvest
- limit the amount of commercial harvest
- limit the amount of recreational harvest
- other _____

The following management activities were undertaken: (check all that apply)

- predator protection through fencing, netting, trapping and etc.
- reseedling from high density areas or seeding with hatchery stock
- flat surveys to determine size distribution and density
- harvester surveys to obtain catch and effort data
- enhance natural seeding through brushing, roughing and etc.
- establishing conservation areas for flat rotation
- other _____

Shellfish Committee/Staff

Municipality: WALDOBORO

Title	Name	Mailing Address	Telephone
Chair	<u>ABDEN SIMMONS</u>	<u>41 JEFFERSON ST, WALDOBORO</u>	<u>832-6586</u>
Vice Chair	<u>LOWELL WALLACE JR.</u>	<u>2273 FRIENDSHIP ROAD, WALDOBORO</u>	<u>832-6270</u>
Secretary	<u>REBECCA MAXWELL</u>	<u>899 N. NOBLEBORO RD, WALDOBORO</u>	<u>832-7742</u>
Member(s)	<u>ARTHUR L. CREAMER</u>	<u>PO BOX 831, WALDOBORO</u>	<u>832-7804</u>
	<u>JOHN GATCOMBE</u>	<u>785 MAIN STREET, WALDOBORO</u>	<u>832-7785</u>
	<u>WAYNE HARVEY I</u>	<u>379 GROSS NECK RD, WALDOBORO</u>	<u>832-7863</u>
	<u>WAYNE HARVEY II</u>	<u>PO BOX 1262, WALDOBORO ME</u>	<u>832-4836</u>
	<u>CLINTON COLLAMORE</u> <u>RUSSELL ANDERSON</u>	<u>1675 WINSLOWS MILLS RD, WALDOBORO</u> <u>MANKTOWN ROAD, WALDOBORO</u>	<u>832-4046</u> <u>832-4754</u>
Selectmen/ Council Rep.	<u>REBECCA MAXWELL</u>	<u>899 N. NOBLEBORO RD, WALDOBORO</u>	<u>832-7742</u>
Wardens	<u>WILLIAM BRAGG</u>	<u>PO BOX F, WALDOBORO</u>	<u>832-6311</u>
WQSpec(s)	<u>N/A</u>		

Committee Meetings

The Shellfish Committee holds regularly scheduled meetings: yes no

The following number of meetings was held during the past year: 10

Minutes of meetings are recorded, filed and are available upon request: yes no

Conservation Credit

The opportunity to obtain conservation credit is provided: yes no

The total number of conservation hours needed to obtain credit is 4.

Conservation credit is required to obtain a: renewal license

new license

Conservation hours are given for:

- meeting attendance
- committee service
- educational activities
- coastal cleanup
- surveys
- reseeding
- brushing
- predator control
- _____

If conservation credit is not provided, the total number of volunteer man-hours documented for management activities during the past year is N/A.

Fixed Mailed
03/20/06

Summary of Warden Activities for the Year

Hours Patrolled: 1280
 Diggers Checked: 26400
 Warnings Given: 10
 Summon Issued: 8
 Court Appearances: 8
 Convictions: 8

Enforcement of the shellfish management ordinance has been: Satisfactory
 Unsatisfactory

Enforcement could be improved by: more hours patrolled better training
 more wardens greater state support
 better equipment other _____

The warden is provided with a written job description: yes no

Production Data Collected by the Warden

Month	Avg. Daily Catch/Digger	Avg. # of Diggers/Day	Total # of Days Dug	Total Lbs or Bushels
January	NO	PATROL	30	0
February	NO	PATROL	28	0
March	1	10	29	290
April	1.5	15	27	607.5
May	2	20	26	1040
June	2.5	25	12	750
July	2	30	26	1560
August	2.5	30	29	2175
September	2	25	23	1150
October	1	20	17	340
November	1	15	30	450
December	NO	PATROL	31	0
TOTAL				8,362.5

Warden(s)	Training Date	Nomination Date
WILLIAM R. BRAGG	04/04	04/05

Shellfish Conservation Budget

Municipality: WALDOBORO

License Receipts	Allocation	Sold	Received
<i>Commercial</i>			
Resident	175	176	\$ 17,600.00
Nonresident	22	21	\$ 4,200.00
Senior Resident	-	-	\$ -
Senior Nonresident	-	-	\$ -
Junior/Student Resident	20	20	\$ 1,000.00
Junior/Student Nonresident	2	1	\$ 100.00
Other			\$
<i>Recreational</i>			
Resident		97	\$ 760.00
Nonresident		8	\$ 130.00
Daily/Weekly/Monthly Res.			\$
Daily/Weekly/Monthly Nonres.			\$
Senior Resident			\$
Senior Nonresident			\$
Junior/Student Resident			\$
Junior/Student Nonresident			\$
Other		DUPLICATE LICENSES (2)	\$ 2.00
SUBTOTAL (1)			\$ 23,792.00
Receipts Independent of License Fees			
Shellfish Conservation Account Carried Forward			\$ -
Funds Raised for Warden			\$ 16,791.00
Funds Raised for Management Activities			\$ 3,431.50
Fines			\$ 1,106.00
Other			\$
SUBTOTAL (2)			\$
TOTAL Receipts (1+2)			\$ 21,328.50
Disbursements			
Warden Salary			\$ 12,613.58
Mileage			\$ 2,421.26
Clothing			\$ 126.26
Equipment			\$
Training			\$
SUBTOTAL (3)			\$ 15,161.10
Advertising			\$ 162.50
Supplies			\$ 244.25
Surveys			\$
Seeding			\$
Miscellaneous			\$ 167.96
SUBTOTAL (4)			\$ 574.71
TOTAL Disbursements (3+4)			\$ 15,735.81

Proposed Management Controls

Municipality: WALDOBORO

The following management controls will be utilized for the coming year: (check all that apply)

- limit the number of commercial harvesters
- limit the number of recreational harvesters
- restrict times of harvest
- restrict the areas of harvest
- limit the amount of commercial harvest
- limit the amount of recreational harvest
- other _____

Proposed Shellfish Licenses

<u>License</u>	<u>Number</u>	<u>Cost @</u>
<i>Commercial</i>		
Resident	175	\$ 100.00
Nonresident	22	\$ 200.00
Senior Resident	0	\$ 0
Senior Nonresident	0	\$ 0
Junior/Student Resident	20	\$ 50.00
Junior/Student Nonresident	2	\$ 100.00
Other	0	\$ 0
<i>Recreational</i>		
Resident	100	\$ 10.00
Nonresident	10	\$ 20.00
Daily/Weekly Monthly Res.	0	\$ 0
Daily/Weekly Monthly Nonres.	0	\$ 0
Senior Resident	0	\$ 0
Senior Nonresident	0	\$ 0
Junior/Student Resident	0	\$ 0
Junior/Student Nonresident	0	\$ 0
Other	0	\$ 0

License number determination is based upon: calculation using survey data
 survey data as a guide
 harvester input
 need/demand

The above numbers are:

- tentative, the actual numbers to be determined later
- firm, have been or will be submitted to DMR

Proposed Management Activities

Municipality: WALDOBORO

The following management activities will be undertaken during the coming year: (check all that apply)

- predator protection through fencing, netting, trapping and etc.
- reseeded from high density areas or with hatchery stock
- flat surveys to determine size distribution and density
- harvester surveys to obtain catch and effort data
- enhance natural seeding through brushing, roughing and etc.
- establishing conservation areas for flat rotation
- other _____

In order to implement these management activities the committee will utilize: (check all that apply)

- harvesters vested with conservation credit
- harvester volunteers
- paid harvesters
- municipal employees
- paid consultants
- other _____

To provide a forum for harvester input in management planning, the shellfish committee plans to meet:

- annually
- biannually
- quarterly
- bimonthly
- monthly

Meeting notification for other than regularly scheduled meetings is by:

- mailing
- phone call
- posting
- newspaper
- word of mouth

In order to keep the DMR informed and to solicit advice on management activities, the shellfish committee will:

- request the area biologist to participate in all meetings
- request the area biologist to participate in only specific meetings
- invite the area biologist to attend all meetings
- invite the area biologist to attend only specific meetings

Summary of Transplant Activities

Municipality: WALDOBORO

The following seeding / reseeding activities were conducted during the past year.

No seeding / reseeding activities were conducted.

	Event 1	Event 2	Event 3	Event 4
Date (m/d)	04/16/05	04/17/05	05/15/05	05/16/05
Supervisor	WILLIAM BRAGG	WILLIAM BRAGG	WILLIAM BRAGG	WILLIAM BRAGG
Crew #	6	7	10	CANCELED
Amount	3 BUSHEL	5 BUSHEL	4000,000	DUE
Mean Size (in)	3/4"	3/4"	1/4"	TO
Size Range (in)	3/4" - 1"	3/4" - 1"	1/8" - 1 1/2"	RAINFALL
Source Hatchery	N/A	N/A	N/A	
Source Flat	FOX ISLAND	FOX ISLAND	S-26	
Receiv. Flat	PITCHERS COVE	PITCHERS COVE	SAMPSONS COVE	
Flat Prep (y/n)	NO	NO	NO	
Netted (y/n)	NO	NO	NO	
Closed until	JULY 1, 2005	JULY 1, 2005	OCTOBER 31, 2005	
	Event 5	Event 6	Event 7	Event 8
Date				
Supervisor				
Crew #				
Amount				
Mean Size (in)				
Size Range (in)				
Source Hatchery				
Source Flat				
Receiv. Flat				
Flat Prep (y/n)				
Netted (y/n)				
Closed until				

Conservation Closures and Openings

Municipality: WALDOBORO

Summary of Closures

The following is a list of conservation closures implemented or in effect during the past year.
 No conservation areas were closed. (This table is for areas normally open.)

Conservation Area	Acreage	Closing Date	Opening Date	Days Closed*	Reason
PITCHERS COVE		09/1/05	07/01/06		CONSERVATION
SAMPSONS COVE		05/15/05	10/31/05		CONSERVATION

*during 2005

Summary of Openings

The following is a list of conservation openings implemented or in effect during the past year.
 No conservation areas were opened. (This table is for areas normally closed.)

Conservation Area	Acreage	Opening Date	Closing Date	Days Open*	Reason
PITCHERS COVE		07/1/05	09/1/05		CONSERVATION
SAMPSONS COVE		10/31/05	-----		CONSERVATION

*during 2005

Additional Activities

Municipality: WALDOBORO

Spatfall Enhancement

The following is a list of activities to promote clam settlement such as brushing, flat roughing, tenting or netting. No such activities were conducted.

Location	Date	Description

Predator Protection

The following is a list of activities to protect clams from predators such as trapping, netting and hand collecting. No such activities were conducted.

Location	Date	Description

Other Activities

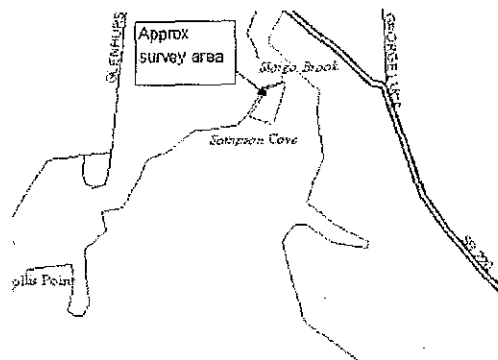
The following is a list of other activities that benefit, directly or indirectly, the management program such as educational projects, participation in regional councils and shoreline cleanup. No such activities were conducted.

Location	Date	Description
WALDOBORO RIVER	05/21/05	RIVER CLEAN UP

Re-seeding and Clean-up:

SAMPSON COVE CLAM SURVEY 10/21/2005

Ronald A. Aho



- **INTRODUCTION** - An area in Sampson Cove on the Medomak River was surveyed on 10/21/05 by the Waldoboro Shellfish Committee with the assistance of students from Medomak Valley High School.
- **METHOD** - The upper inter tidal area was surveyed. Plots of 0.2 m^2 were dug at 50' intervals for a total of 23 plots. All clams removed were retained for measurement. Clams were measured to the nearest $\frac{1}{4}$ ", rounding up. After all clams were measured, the information was entered into an Excel spreadsheet to convert the lengths of the clams in inches to the volume of clams in bushels.
- **RESULTS** - The area surveyed was about 1.3 acres. A total of 403 clams were dug, of which 7, or 1.7% of the total, were greater than 2" in length. The average length of all clams harvested was 1.2".
The average yield was about 85.8 bus/acre or 111.6 bushels for the whole area surveyed. The total yield of clams for those greater than 2" in length was about 6.6 bus/acre or a total of 8.6 bushels of commercial sized clams in the area surveyed.
- **DISCUSSION** - It is not possible to say how much the clams would increase in length during a conservation closure, but it is not unreasonable to assume that the average increase might be $\frac{3}{4}$ " of an inch. Using this assumption, it's possible to make an estimate of the potential yield.
In the present example an increase of $\frac{3}{4}$ " in length would result in a total yield of 305 bus/ acre with about 231 bushels being in the commercial size range.
In this case, the conservation closure in this very small cove would result in an increase from 8.8 bushels to 231 bushels.
It is possible to estimate the value of this closure to the clammers. In 2004, the average value of clams was about \$75.00 / bushel. The increase in value from this closure would be from \$660 to \$17,325 or an increase of \$16,665.