

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

**Municipality:** Harpswell

**Date:** 02/28/06

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:** Harpswell

| <b>Title</b>               | <b>Name</b>                | <b>Mailing Address</b>                              | <b>Telephone</b> |
|----------------------------|----------------------------|---|------------------|
| Chair                      | <u>Christopher Johnson</u> | <u>155 Harpswell Islands Road, Harpswell, 04079</u> | <u>798-3936</u>  |
| Vice Chair                 | <u>James Knight</u>        | <u>1327 Harpswell Neck Road, Harpswell, 04079</u>   | <u>833-6423</u>  |
| Secretary                  | <u>George Bradbury</u>     | <u>P.O. Box 5, Harpswell, 04079</u>                 | <u>833-0094</u>  |
| Member(s)                  | <u>Wayne Ricker</u>        | <u>20 Irene Avenue, Harpswell, 04079</u>            | <u>833-6102</u>  |
|                            | <u>Weston Watts</u>        | <u>343 Cundy's Harbor Road, Harpswell, 04079</u>    | <u>729-1403</u>  |
|                            | <u>Mike Davis</u>          | <u>25 Stevens Corner Road, Harpswell, 04079</u>     | <u>725-8569</u>  |
| Selectmen/<br>Council Rep. |                            |   |                  |
| Wardens                    | <u>John Cross</u>          | <u>36 County Way, Portland, 04101</u>               | <u>774-1444</u>  |
|                            | <u>Andreas Schenkep</u>    | <u>36 County Way, Portland, 04101</u>               | <u>774-1444</u>  |
| WQSpec(s)                  | <u>John Cross</u>          | <u>36 County Way, Portland, 04101</u>               | <u>774-1444</u>  |
|                            | <u>John Cross</u>          | <u>36 County Way, Portland, 04101</u>               | <u>774-1444</u>  |

**Committee Meetings**

The Shellfish Committee holds regularly scheduled meetings:  yes [ ] no

The following number of meetings was held during the past year: 12

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 12.

Conservation credit is required to obtain a:  renewal license

new license

Conservation hours are given for:

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

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



**Shellfish Conservation Budget**

**Municipality:** Harpswell

| <b>License Receipts</b>                        | <b>Allocation</b> | <b>Sold</b> | <b>Received</b> |
|--|-------------------|-------------|-----------------|
| <i>Commercial</i>                              |                   |             |                 |
| Resident                                       | 73                | 73          | \$14,600        |
| Nonresident                                    | 8                 | 8           | \$3,200         |
| Senior Resident                                | 4                 | 4           | \$400           |
| Senior Nonresident                             | -                 | -           | \$0             |
| Junior/Student Resident                        | -                 | -           | \$0             |
| Junior/Student Nonresident                     | -                 | -           | \$0             |
| Other: -                                       | -                 | -           | \$0             |
| <i>Recreational</i>                            |                   |             |                 |
| Resident                                       | NL                | 314         | \$3,140         |
| Nonresident                                    | 10%               | 31          | \$620           |
| Daily/Weekly/Monthly Res.                      | -                 | -           | \$0             |
| Daily/Weekly/Monthly Nonres.                   | -                 | -           | \$0             |
| Senior Resident                                | NL                | 19          | \$0             |
| Senior Nonresident                             | 10%               | 1           | \$0             |
| Junior/Student Resident                        | -                 | -           | \$0             |
| Junior/Student Nonresident                     | -                 | -           | \$0             |
| Other: -                                       | -                 | -           | \$0             |
| SUBTOTAL (1)                                   |                   |             | \$21,960        |
| <b>Receipts Independent of License Fees</b>    |                   |             |                 |
| Shellfish Conservation Account Carried Forward |                   |             | \$0             |
| Funds Raised for Warden                        |                   |             | \$121,821       |
| Funds Raised for Management Activities         |                   |             | \$2,600         |
| Fines  |                   |             | \$1,403         |
| Other  |                   |             | \$0             |
| SUBTOTAL (2)                                   |                   |             | \$125,824       |
| TOTAL Receipts (1+2)                           |                   |             | \$147,784       |
| <b>Disbursements</b>                           |                   |             |                 |
| Warden Salary                                  |                   |             | \$70,560        |
| Mileage  |                   |             | \$5,623         |
| Clothing                                       |                   |             | \$1,000         |
| Equipment                                      |                   |             | \$1,000         |
| Training                                       |                   |             | \$0             |
| SUBTOTAL (3)                                   |                   |             | \$78,183        |
| Advertising                                    |                   |             | \$329           |
| Supplies                                       |                   |             | \$0             |
| Surveys  |                   |             | \$0             |
| Seeding  |                   |             | \$0             |
| Miscellaneous                                  |                   |             | \$0             |
| SUBTOTAL (4)                                   |                   |             | \$329           |
| TOTAL Disbursements (3+4)                      |                   |             | \$78,512        |

**Management Activities by Flat**

**Municipality:** Harpswell

The following is a list of clam harvest areas in which management activities were conducted during the past year and the dates when they occurred. [ ] No activities were conducted.

| Harvest Area          | Clam Survey | Seed/Reseed | Predator Control | Brushing/Roughing | Conservation Closure |
|-----------------------|-------------|-------------|------------------|-------------------|----------------------|
| <i>Ash Cove</i>       | 5/6         |             |                  |                   |                      |
| <i>Big Diamond</i>    | 5/5         |             |                  |                   |                      |
| <i>Caitlin Shore</i>  | 5/5         |             |                  |                   |                      |
| <i>Card Cove</i>      | 5/5         | 4/2 4/3     |                  |                   |                      |
| <i>Coffin Cove</i>    | 5/11        |             |                  |                   |                      |
| <i>Diamond Cove</i>   | 4/5         |             |                  |                   |                      |
| <i>Long Cove</i>      | 5/5         |             |                  |                   |                      |
| <i>Nubble</i>         | 5/5         |             |                  |                   |                      |
| <i>Rich Cove</i>      | 5/5         |             |                  |                   |                      |
| <i>Stovers Cove</i>   | 4/4         |             |                  |                   |                      |
| <i>Tondreau Point</i> | 4/5         |             |                  |                   |                      |
| <i>Widgeon Cove</i>   |             |             |                  |                   |                      |
| <i>Bombazine</i>      |             | 5/14 5/15   |                  |                   |                      |
| <i>Dingley South</i>  |             | 10/8        |                  |                   |                      |
| <i>Dingley South</i>  |             | 4/30 5/1    |                  |                   |                      |
| <i>Dingley South</i>  |             | 12/11       |                  |                   |                      |
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**Proposed Management Controls**

**Municipality:** Harpswell

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                     | 72            | \$200         |
| Nonresident                  | 8             | \$400         |
| Senior Resident              | 5             | \$100         |
| Senior Nonresident           | 0             | \$200         |
| Junior/Student Resident      | 9             | \$100         |
| Junior/Student Nonresident   | 1             | \$200         |
| Other                        |               | \$            |
| <i>Recreational</i>          |               |               |
| Resident                     | NL            | \$10          |
| Nonresident                  | 10%           | \$20          |
| Daily/Weekly Monthly Res.    |               | \$            |
| Daily/Weekly Monthly Nonres. |               | \$            |
| Senior Resident              | NL            | \$0           |
| Senior Nonresident           | 10%           | \$0           |
| Junior/Student Resident      |               | \$            |
| Junior/Student Nonresident   |               | \$            |
| Other                        |               | \$            |

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:** Harpowell

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

- predator protection through fencing, netting, trapping and etc.
- reseeding 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 Clam Flat Survey Data**

**Municipality:** Harpwell

The following is a list of surveys conducted during the past year. Survey data should be attached if not previously provided to DMR. [ ] No surveys were conducted.

| Clam Flat             | Survey Date | Acreage     | Density (bu/a) | Standing Crop (bu.) | %>2" by vol. |
|-----------------------|-------------|-------------|----------------|---------------------|--------------|
| <i>Ash Cove</i>       | <i>5/5</i>  | <i>10.1</i> | <i>42.7</i>    | <i>432</i>          | <i>53</i>    |
| <i>Big Diamond</i>    | <i>5/6</i>  | <i>0.5</i>  | <i>74.3</i>    | <i>34</i>           | <i>86</i>    |
| <i>Caitlin Shore</i>  | <i>5/5</i>  | <i>0.5</i>  | <i>89.7</i>    | <i>41</i>           | <i>96</i>    |
| <i>Card Cove</i>      | <i>5/5</i>  | <i>9.2</i>  | <i>89.6</i>    | <i>824</i>          | <i>53</i>    |
| <i>Coffin Cove</i>    | <i>5/11</i> | <i>1.4</i>  | <i>197.7</i>   | <i>273</i>          | <i>95</i>    |
| <i>Diamond Cove</i>   | <i>4/5</i>  | <i>0.9</i>  | <i>94.6</i>    | <i>87</i>           | <i>88</i>    |
| <i>Long Cove</i>      | <i>5/5</i>  | <i>8.3</i>  | <i>117.1</i>   | <i>969</i>          | <i>64</i>    |
| <i>Nubble</i>         | <i>5/5</i>  | <i>36.8</i> | <i>120</i>     | <i>4,415</i>        | <i>74</i>    |
| <i>Rich Cove</i>      | <i>5/5</i>  | <i>4.6</i>  | <i>52</i>      | <i>238</i>          | <i>98</i>    |
| <i>Stovers Cove</i>   | <i>4/14</i> | <i>5.5</i>  | <i>113.2</i>   | <i>625</i>          | <i>27</i>    |
| <i>Tondreau Point</i> | <i>4/5</i>  | <i>5.5</i>  | <i>23</i>      | <i>127</i>          | <i>87</i>    |
| <i>Widgeon Cove</i>   | <i>5/5</i>  | <i>10.1</i> | <i>61.8</i>    | <i>625</i>          | <i>26</i>    |
|                       |             |             |                |                     |              |
|                       |             |             |                |                     |              |
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|                       |             |             |                |                     |              |

The flats surveyed represent approximately 31% of the total productive flats.

**Summary of Transplant Activities**

**Municipality:** Harpswell

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             | 10/8              | 12/11             | 4/30              | 5/1               |
| Supervisor       | Weston Watts      | Weston Watts      | Lee Bradbury      | Lee Bradbury      |
| Crew #           | 6                 | 6                 | 17                | 18                |
| Amount           | 2 bu              | 2 bu              | 4 bu              | 4 bu              |
| Mean Size (in.)  | 1                 | 1                 | 1                 | 1                 |
| Size Range (in.) | 1/2-6/4           | 1/2-6/4           | 1/2-6/4           | 1/2-6/4           |
| Source           | n/a               | n/a               | n/a               | n/a               |
| Source Flat      | Dinley S Inside   | Dinley S Inside   | Dinley S Inside   | Dinley S Inside   |
| Receiv. Flat     | Dingley S Outside | Dingley S Outside | Dingley S Outside | Dingley S Outside |
| Netted (y/n)     | no                | no                | no                | no                |
| Closed until     | n/a               | n/a               | n/a               | n/a               |

|              | Event 5           | Event 6         | Event 7           | Event 8 |
|--------------|-------------------|-----------------|-------------------|---------|
| Date         | 4/2+4/3           | 4/15+4/16       | 5/14+5/15         |         |
| Supervisor   | Mike Davis        | Gilbert Field   | Chris Johnson     |         |
| Crew #       | 23+24             | 21+27           | 19+22             |         |
| Amount       | 5+5               | 5+5             | 4+4               |         |
| Mean Size    | 1/4               | 1/4             | 3/4               |         |
| Size Range   | 1/4-1/2           | 1/4-4/4         | 1/2-3/4           |         |
| Source       | n/a               | n/a             | n/a               |         |
| Source Flat  | Card Cove Inside  | Dingley Middle  | Bombazine Inside  |         |
| Receiv. Flat | Card Cove Outside | Dingley Outside | Bombazine Outside |         |
| Netted (y/n) | no                | no              | no                |         |
| Closed until | n/a               | n/a             | n/a               |         |

**Summary of Conservation Closures**

**Municipality:** Harpowell

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

| Conservation Area   | Acreage   | Closing Date | Opening Date | Days Closed* | Reason             |
|---------------------|-----------|--------------|--------------|--------------|--------------------|
| <i>Ash Cove</i>     | <i>10</i> | <i>5/1</i>   | <i>12/7</i>  | <i>250</i>   | <i>Winter Area</i> |
| <i>Stovers Cove</i> | <i>6</i>  | <i>5/1</i>   | <i>12/7</i>  | <i>250</i>   | <i>Winter Area</i> |
| <i>Basin Cove</i>   | <i>15</i> | <i>5/1</i>   | <i>10/1</i>  | <i>183</i>   | <i>Winter Area</i> |
|                     |           |              |              |              |                    |
|                     |           |              |              |              |                    |
|                     |           |              |              |              |                    |
|                     |           |              |              |              |                    |
|                     |           |              |              |              |                    |
|                     |           |              |              |              |                    |
|                     |           |              |              |              |                    |

\*during 2005

**Summary of Conservation Openings**

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

| Conservation Area | Acreage | Opening Date | Closing Date | Days Open* | Reason |
|-------------------|---------|--------------|--------------|------------|--------|
|                   |         |              |              |            |        |
|                   |         |              |              |            |        |
|                   |         |              |              |            |        |
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|                   |         |              |              |            |        |
|                   |         |              |              |            |        |

\*during 2005

**Additional Activities**

**Municipality:** Harpswell

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              |
|----------------------|-------------|--------------------------|
| <i>Mackeral Cove</i> | <i>7/10</i> | <i>Shoreline Cleanup</i> |
|                      |             |                          |
|                      |             |                          |
|                      |             |                          |
|                      |             |                          |