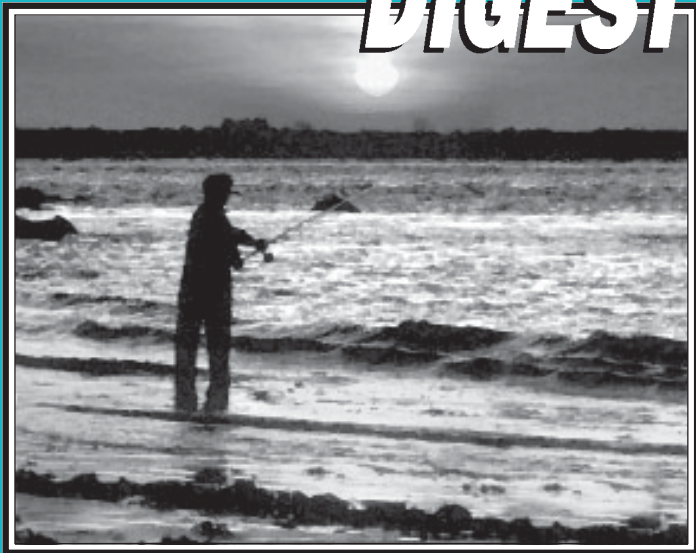


2003 NEW HAMPSHIRE *Saltwater Fishing* **DIGEST**



New Hampshire
Fish and Game Department
www.wildlife.state.nh.us

New Hampshire Fish & Game Department

2003 Saltwater Fishing Digest



State of New Hampshire
Craig Benson, Governor



New Hampshire Fish and Game Department

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This publication is a summary of the saltwater fishing regulations. It is not the full law or rules. It is intended only as a guide to inform the angler of seasons, creel/bag limits, and other necessary information.

For more detailed information concerning regulations, consult the New Hampshire Fish and Game Law Book or contact your local law enforcement officer. Fish and Game laws may be viewed at any Fish and Game office, the Secretary of State's office, and Legislative Services in Concord, N.H.

Catch and Release

1. Time is of the essence. Play and release the fish as quickly and carefully as possible. An overplayed fish may become too weak to recover.
2. When landing fish, use a net with fine mesh to avoid injury. A net is probably not necessary for small fish. Keep the fish in the water as much as possible. A fish out of water is suffocating and could be injured.
3. When releasing a fish, try not to touch it when removing the hook and releasing it. When handling the fish, do not let it flop around or squeeze it. The fish can be gently held around the middle and upside down while removing the hook. This position calms the fish and deters it from moving around.
4. Remove the hook with small pliers or by using the thumb and forefinger to loosen and back out the hook. If a hook cannot be easily removed, cut the leader as close as possible to the hook. The hook will rust or fall out in a short time.
5. To revive a tired fish, hold it in a swimming position with one hand under its bottom jaw and the other hand grasping the fish in front of the tail. Gently move the fish back and forth through the water until it is able to swim away.

The New Hampshire Fish and Game Department recommends that anglers who plan to use live or cut bait when fishing for striped bass or other fish use circle hooks in order to reduce mortality on fish that will be released. Recent studies comparing baited circle hooks to the standard J hooks used by most anglers indicate a substantial reduction in the post-release hooking mortality when circle hooks are used.

For more information contact Fish and Game Marine Fisheries Division weekdays (8:00 a.m.-4:00 p.m.) at (603) 868-1095.

License Information

Fishing licenses, valid January 1 through December 31 of each year, may be purchased from license agents, Fish and Game Department headquarters, some town or city clerks and online at **www.wildlife.state.nh.us**. Duplicate licenses may be issued by the original issuing agent or Fish and Game Headquarters in Concord.

Recreational fishermen are not required to be licensed to fish in saltwater, except to fish for smelt in Great Bay and tributaries, and for trout, shad and salmon in all state waters. A license is required to take all species of fish through the ice of Great Bay estuary.

Help New Hampshire's Wildlife

Become a Super Sportsman — Your \$8 donation will be used for special fish and/or wildlife management projects in New Hampshire. For every \$8 donation by a licensee, the federal government may contribute \$24.

Contribute to Nongame Wildlife — Your \$5 donation will fund nongame and endangered wildlife research and education projects throughout the state. Your donation will be matched with an equal amount from the New Hampshire General Fund.

These donations can be made when you purchase your hunting and fishing licenses by telling the license agent you want to help wildlife!

Report Fish and Game Violations ONLY!

CALL OPERATION GAME THIEF

1-800-344-4262 (NH)

2 Hazen Drive, Concord, NH 03301

1-800-ALERT US (ME)

284 State Street, Augusta, ME 04333

License Fees and Requirements

Fishing Licenses/Type	Age/Requirements	Fee
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A \$1.00 Habitat Fee has been added to all Freshwater Fishing Licenses.

NEW FEES FOR 2003

All Species	16-68/Residents	\$35.00
	16 and over/Nonresidents	\$53.00

Resident Softshell Clam	6 yrs. and older	\$30.00
	68 years or over	Free

Resident Oyster	All ages	\$30.00
	68 years or over	Free

Resident Commercial Sea Clam		\$301.00
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Lobster and Crab	5 pots maximum	\$36.00
	Limited Commercial - 600 pots maximum	\$104.00
	Commercial - 1,200 pots maximum	\$301.00
Helper's License		\$11.00

Commercial Saltwater Resident		\$51.00
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Nonresident		\$301.00
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Description

Allows taking all species of fish including trout, salmon and shad. Smelt may be taken in Great Bay with this license.

N.H. residents only. See page 23 for rules.

N.H. residents only.

N.H. residents only.

Five (5) year residency requirement. Helper's license required for each helper (no residency requirement for helpers).

Required to take, land, transport or possess marine species, excluding lobsters, with the intent to sell, regardless of method. Includes operator and unlimited helpers. License is not issued to a vessel, it is issued to an individual.

Includes operator and unlimited helpers. Required to take marine species to sell, regardless of method. Allows for the landing of lobsters taken from areas outside the jurisdiction of New Hampshire.

License Fee and Requirements (cont.)

Fishing Licenses/Type	Requirements	Fee
Harvest Permit		Free
Shrimp Processing Permit		Free
Shellfish Shucking Permit		Free
Trade of Lobster Meat and Crab Meat		
Retail	Resident	\$26.00
	Nonresident	\$51.00
Sea Herring Permit		Free
Wholesale Marine Species (includes lobster & crab)		
	Resident	\$101.00
	Nonresident	\$201.00
Resident Extra Facility		\$51.00
Nonresident Extra Facility		\$76.00
Sea Urchins and Scallops (Commercial Saltwater License)	Nonresident	\$301.00

Description

Required to take finfish by seine, net, weir, pot or trap, horseshoe crab by any method, or American eel by any method but angling, from coastal and estuarine waters of N.H. Available at Durham office.

Required to possess shrimp during closed season. Available at Durham office.

Required for any firm, corporation or person shucking shellfish as a commercial operation. For this permit, shellfish means all fresh or frozen clams, oysters, mussels, or scallops, either shucked or in the shell.

Separate license required for each market, store, vehicle, or other facility where lobsters and crabs are sold.

Required to possess sea herring. Available at Durham office.

Required to buy, sell, process and transport marine species if wholesaling marine species. A separate extra facility license shall be required for each market, store, vehicle or facility where marine species are bought or sold at wholesale. Vehicles used solely for the transportation of marine species are not required to be licensed as an extra facility, as long as the wholesale marine dealer is licensed.

Prohibited if applicant's state excludes nonresident harvest. Helpers not allowed to take by diving.

Remember

- ✓ Any Fish and Game permit or license is subject to inspection by any person upon demand.
- ✓ Littering is sufficient cause to revoke your license.
- ✓ The license you hold can be suspended for any violation of the Fish and Game laws.

Commonly Asked Questions

Question: Are nonresidents permitted to take clams, oysters, clam worms, whelks and lobsters?

Answer: No, only residents are allowed to purchase licenses for the taking of clams, oysters, clam worms, whelks and lobsters.

Question: May lobsters be taken by diving?

Answer: No.

Question: Do I need a license to fish in saltwater?

Answer: A license is needed only if fishing for smelt or any finfish through the ice in Great Bay and tributaries, or if fishing for any species of trout, shad or salmon in any state waters. Federal permits may also be required.

Question: Can children fish without a license?

Answer: Children under the age of 16, resident or nonresident, are not required to purchase a fishing license.

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Definitions

Coastal and estuarine waters – all water within the rise and fall of the tide, and water below any fishway or dam which normally divides tide water and fresh water, or below any legally established tidal bound in streams flowing into the sea.

Commercial fisherman – any person who takes, possesses, lands, or transports, on the waters of this state, any marine species by any method for the purposes of sale.

Finfish – includes all species and subspecies of fish listed under the definition of fish.

Fish – a member of any of the following classes: cyclostomata, including, but not limited to, hagfishes and lampreys; elasmobranchii, including, but not limited to, sharks, skates, and rays; and pisces, including, but not limited to, trout, perch, bass, minnows, and catfish; including any part, product, egg or offspring thereof, or the dead body or parts thereof, excluding fossils.

Groundfish – a group of fish which includes Atlantic cod (*Gadus morhua*), haddock (*Melanogrammus aeglefinus*), pollock (*Pollachius virens*), American plaice (*Hippoglossoides platessoides*), redfish (*Sebastes marinus*), white hake (*Urophycis tenuis*), summer flounder (*Paralichthys dentatus*), yellowtail flounder (*Pleuronectes ferruginea*), winter flounder (*Pleuronectes americanus*), windowpane flounder (*Scophthalmus aquosus*), and witch flounder (*Glyptocephalus cynoglossus*).

This digest, with enlarged type, is available for the visually impaired. Call N.H. Fish and Game Public Affairs Division at (603) 271-3211.

Inclusion dates – whenever a period is named during which an act is permitted or prohibited, both the first and second dates named will be included within such period.

Marine species – includes all fish which inhabit salt water, and all shellfish, lobsters, crabs, shrimps, clams, marine worms, other marine invertebrates and marine plants found in the coastal and estuarine waters.

Mobile gear – includes, but is not limited to, otter trawls, mid-water trawls, beam trawls, pair trawls, drag seines in any form, purse seines and Scottish seines. Does not include cast nets, dip nets held in hand, hook and line, seines less than 50 sq. ft. and stationary gill nets anchored on each end.

Net – any open fabric constructed of string, cord, thread, wire, etc., knotted or woven together in such a way as to be capable of entraining or entrapping finfish.

Nonresident – all persons not coming within the definition of resident.

Person – includes co-partnership, association and corporation, and also principal, agent or employee.

Resident – a U.S. citizen who has lived and made his home within the state not less than 6 months prior to his application for a license, and who has not, during that period, claimed a residence in any other state for any purpose. The word residence, as used in this definition, means domicile.

Resident and nonresident corporations – the word “resident,” as used in this subdivision (marine species), when applied to a corporation is a corporation organized under the laws of this state. The word “nonresident,” as used in this subdivision, when applied to a corporation is a corporation organized under the laws of another state.

Possession – actual or constructive possession, and any control of things referred to.

Salters – any species of trout which spends part of its life cycle in brackish or saltwater.

Seaweed – any marine algae in the classes *Chlorophyceae*, *Xanthophyceae*, *Phaeophyceae* and *Rhodophyceae*, including rockweeds and sea moss.

Seine – a net which is rectangular or square and is pulled through the water to entrap organisms.

Sell and Sale – includes the barter, exchange, and offering or exposing for sale.

Single hook artificial lure – lure with 1 single hook with not more than 3 hook points.

Waters under the jurisdiction of the state – those waters within the 3-mile territorial sea.

Take or taking – includes pursuing, shooting, hunting, killing, capturing, trapping, snaring and netting wildlife, and all lesser acts, such as disturbing, harrying, worrying, wounding, or placing, setting, drawing, or using any net or other device commonly used to take wildlife, whether they result in taking or not, and includes every attempt to take and every act of assistance to every other person in taking or attempting to take wildlife, provided that whenever taking is allowed by law, reference is made to taking by lawful means and in lawful manner.

Transport and transportation – all carrying or moving, or causing to be carried or moved.

Weir – a fixed position fish trap consisting of a lead of net strung from poles, usually wooden, with a pocket of net within which the fish are contained.

Wildlife – refers to all species of mammals, birds, fish, mollusks, crustaceans, amphibians, reptiles or their progeny or eggs which, whether raised in captivity or not, are normally found in a wild state.

This agency receives federal funds. Under federal law, discrimination is prohibited on the basis of race, color, national origin or handicap. If you think you have been discriminated against in any program, activity or facility, or want more information, contact the N.H. Fish and Game Department or the Office of Equal Opportunity, U.S. Department of the Interior, Washington, D.C. 20240.

Species

SEASONS/LIMITS/RULES

American Eel – minimum length: 6 inches; no closed season, except that on the closed downstream portion below a fishway, eels may be taken only from June 15-October 1. Recreational creel limit: 50 eels per day.

American Shad – daily limit 2 fish; no length or weight limits. May be taken by angling only. Fish taken by any other method must be immediately released. Fishing license required.

Alewives – open to residents only. River herring (alewives and bluebacks) may not be taken on Wednesdays by any method. Harvest permit is required to take by any form of netting, including chicken wire.

Bluefin Tuna – under federal management; contact National Marine Fisheries Service at 1-888-USA-TUNA.

Bluefish – daily limit 10 fish by hook and line, no minimum size. The taking of bluefish by any method for the purpose of sale shall be prohibited from October 1 through June 30.

Crabs (red) – any person may take 12 crabs daily by angling, diving, or by hand without a license. A license is required to take more than 12, or by a trap.

Clamworms – open to residents only. License required, except to take no more than 1 qt. per day for personal use. No limits when licensed. Only hand tools with handles not to exceed 18 inches may be used.

Dogfish – state waters are closed when federal quota is filled.

Goosefish (monkfish) – minimum size 17 inches total length. Goosefish tails shall be not less than 11 inches as measured from the anterior portion of the fourth cephalic dorsal spine to the end of the caudal fin. Goosefish livers landed shall not exceed 25% of the total weight of goosefish tails or 10% of the total weight of whole goosefish on any trip.

Green Crabs (*Carcinus*) – may be taken in any quantity by any legal method.

Groundfish – minimum mesh size for gillnets and mobile gear is 6.5 inches to take, transport or possess groundfish. No mobile gear may be used to take finfish or crustaceans in state waters. For positive identification all fillets must have skin intact while on or leaving state waters. These species may be transported or possessed on board a vessel with mobile gear which has a mesh size smaller than 6.5 inches, if the fish were taken outside the jurisdiction of the state .

Groundfish Species - minimum length: recreational & commercial

American Plaice – minimum length 14 inches.

Atlantic Cod* – minimum length 22 inches commercial;
23 inches recreational.

Haddock* – minimum length 19 inches commercial;
23 inches recreational.

Yellowtail Flounder – minimum length 13 inches.

Pollock – minimum length 19 inches, no size limit if taken by angling.

Redfish – minimum length 9 inches.

Summer Flounder – minimum length 15 inches. May be taken by angling only.

Winter Flounder – minimum length 12 inches.

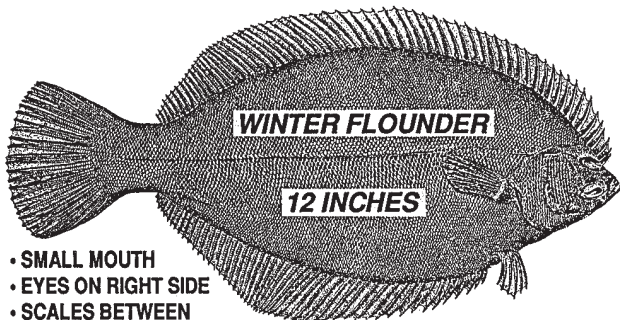
Flounder identifications, see pages 16 and 17.

* Must have head and tail intact, or at least 14-inch fillets with skin intact, while on or leaving state waters. For recreationally caught Atlantic cod and haddock, there is a daily aggregate bag limit of 10 cod and/or haddock from April 1 through November 30 and 5 cod and/or haddock from December 1 through March 31. From April 1 through June 30, cod and haddock may only be taken recreationally.

KNOW YOUR FISH

Flounder Identification

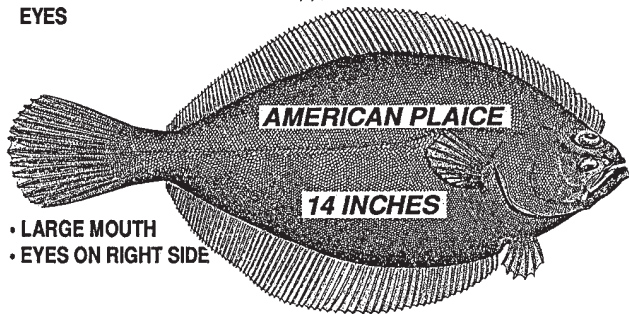
←-----MINIMUM TOTAL LENGTH IN INCHES----->



WINTER FLOUNDER

12 INCHES

- SMALL MOUTH
- EYES ON RIGHT SIDE
- SCALES BETWEEN EYES



AMERICAN PLAICE

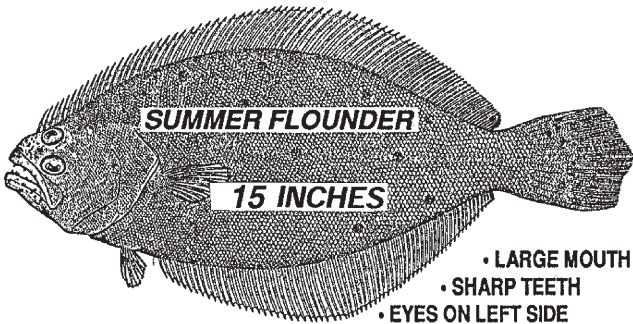
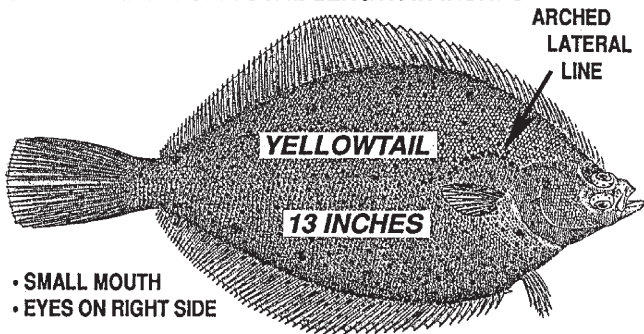
14 INCHES

- LARGE MOUTH
- EYES ON RIGHT SIDE

KNOW YOUR FISH

Flounder Identification

<-----MINIMUM TOTAL LENGTH IN INCHES----->



Horseshoe Crab – no person shall take or possess more than 10 horseshoe crabs per day. A Harvest Permit is required.

Lobsters and Crabs – See pages 21-22.

Mollusks (clams, oysters, mussels, snails, etc.) – See page 23.

Northern Shrimp – See page 20.

Salmon – sea-run Atlantic salmon may be taken by angling only. Fishing license required. Daily limit 2 fish; minimum length 15 inches. Snagging (foul-hooking) not allowed. Any salmon snagged must be immediately released unharmed.

Salters – fishing license required; daily limit one fish; no size limit; can take by angling only; no closed season, except:

Berry Brook – closed season January 1-August 15 from Venture Rd. inland to the beginning of the prominent large rock area upstream. During open season, restricted to single-hook artificial lures and flies. **Note:** Closed year-round to all fishing from the prominent large rock area to Sagamore Rd.

Saltwater Smelt – may be taken by angling with a fishing license. Daily limit 10 liquid qts. of smelt with head and tail intact. Use of nets or weirs prohibited from March 1-December 15 inland of Memorial Bridge in Newington-Portsmouth. No license required to take by hook and line from the Piscataqua River and its tributaries seaward of the Memorial Bridge, from the Hampton River and its tributaries, and from Rye Harbor and its tributaries. Bow nets and dip nets held in hand may be used in these rivers: Oyster, Squamscott, Bellamy and Lamprey between December 16-February 28. Harvest permit required for bow netting and dip netting. Daily limit of 10 qts. applies. **Commercial fishing license required to sell saltwater smelt taken by any method.**

Sea Herring – closed season September 21-October 19, unless the executive director revises the beginning or ending dates of the closure. During the closed season, herring may be possessed for use as bait in

the normal conduct of tending lobster and crab pots, and for recreational fishing. A permit is required to possess herring.

Sea Scallops – See page 23.

Sea Urchins – minimum size 2 inches. May be taken by hand or pot from October 1 through March 15 or by single 48-inch-wide sled from December 15 through March 15. Sleds may not be used in the waters of the Great Bay estuarine system inland of the Memorial Bridge in Portsmouth, Little and Rye Harbors and their tributaries inland of their most seaward jetties, and inland of the Hampton Harbor Bridge. Possession of other marine species not allowed if taken by sled. Commercial fishing license required to sell.

Seaweeds – may be collected and taken from the seashore below the high water mark during the day. Owner's permission is required to take flats-weed or seaweed from saltmarsh or flats. No seaweed may be piled below the high water mark to be hauled away. Sale is prohibited outside the state. Up to 3 bushels of growing rockweed or sea moss may be cut or taken by residents or summer residents. Do not detach or injure the roots of the seaweed when cutting.

Softshell Clams – See page 23.

Striped Bass – minimum length 28 inches; daily limit 1 fish (subject to change, contact Marine Fisheries); no closed season. Sale of striped bass is prohibited, regardless of origin. Netting is prohibited except when landing by use of a hand-held dip net. Gaffing is prohibited. Head and tail must remain intact while on or leaving state waters or shores.

Sturgeon – possession prohibited.

Surf clams, Mahogany Quahogs, and Razor Clams – See page 23.

Whelks – See page 24.

NORTHERN SHRIMP (*Pandalus borealis*)

Season – Mobile Gear and Traps: January 15 – February 27, 2003. No fishing on Fridays, 0001–2400.

Net – the minimum mesh size is 1¾ inch stretched mesh. No tolerance is allowed in the cod end. A tolerance of 1/8 inch will be allowed in the body and wings. No liners are allowed. An optional cod end strengthener may be used with an outer mesh size at least 3 times larger than the size of the inner mesh, but no less than 6 inches. The hanging ratio of the cod end strengthener shall be identical to the mesh size ratio. Chafing gear allowed on the lower half of the cod end only, except no chafing gear shall be used with a cod end strengthener. Maximum length of bottom legs of bridle shall be 15 fathoms of bare wire. Shrimp shall only be taken with a finfish excluder trawl equipped with the “Nordmore Grate” system. A second grate may be used for the purpose of releasing small shrimp and retaining larger shrimp (double Nordmore Grate system). Written permission from the executive director must be obtained to transport or possess nets with smaller than legal mesh size. Shrimp legally purchased for bait may be possessed anytime. For more information, contact Fish and Game’s Region 3 office, 603-868-1095.

Traps – the maximum trap size shall be 48 inches x 24 inches x 16 inches. The mesh size shall be no larger than ½ inch x 1 inch and the V-trough top entrance shall be no wider than 1¼ inches. Each trap shall have a biodegradable panel with an opening of at least 3¾ inches x 3¾ inches on the top or side of the trap. Traps may be fished in pairs with a single buoy with the person’s last name and initials. Tending shall be restricted to the period from 1 hour before sunrise to sunset.

Bycatch – no person shall take, transport or possess any cod, haddock, pollock, white hake, redfish, American plaice, windowpane, witch, winter and yellowtail flounders on board any boat rigged with or possessing a Nordmore Grate system or shrimp trap.

Reporting – any person who is a primary dealer (one who purchases 120 lbs. or more as a first purchase from a vessel engaged in shrimping) or processor of shrimp must file a weekly report of all shrimp purchased during the preceding week. The report must include the name of the processor or dealer, week of reporting period, transaction date(s), vessel, amount purchased in pounds, count per pound, and signature of dealer or processor. A reporting week is Sunday-Saturday. Reports must be received by the following Wednesday.

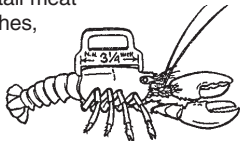
Processing – shrimp may be processed from January 15 – March 7, 2003. After March 7, written permission must be obtained from the executive director. Permittee must document the country, state or origin of shrimp to be processed.

LOBSTERS AND CRABS

License – is required to take lobsters and crabs (also see page 6). Federal license required to fish in waters seaward of state waters. The more restrictive measure applies when fishing more than one management area.

Season – no closed season; may be taken from 1 hr. before sunrise to sunset.

Legal Length – no lobster less than 3¹/₄ inch carapace length, whether alive or dead, may be transported, bought, sold, given away, exposed for sale, or possessed. No lobster greater than 5 inches carapace length may be taken from waters under the jurisdiction of this state. Measurements must be made from the rear of the eye socket, along a line parallel to the center line of the body shell, to the rear of the body shell. When lobster meat is removed from the shell, the tail meat must be whole, intact and not less than 4¹/₄ inches, when laid straight and measured end to end (not including the small part that is on the body end of the tail meat). Possession of mutilated lobster, cooked or uncooked,



will be prima facie evidence that they are not of legal length. Lobster meat from outside the state must meet the minimum length requirements. Hermetically sealed cans of lobster, not requiring refrigeration and not weighing over 8 ounces net, are exempt from this provision.

Spawn – no person can remove spawn from any female lobster or take, serve, have in his possession, sell or offer for sale any female lobster carrying spawn or any lobster spawn.

Female Lobsters – no person can take, buy, sell, or have in his possession any female lobster bearing eggs. Female egg-bearing lobsters must be immediately returned alive to the waters from which taken. This does not apply to lobsters spawning in cars or pounds if, upon discovery, they are liberated alive in the coastal waters (please call Fish and Game law enforcement at (603) 271-3127 when discovered).

V-Notched – any female possessing a v-notch (notched right flipper next to the middle flipper when underside of female is down and its tail toward you) or mutilated right flipper must be immediately returned to the waters from which it was taken. All commercial and limited commercial lobster licensees shall immediately V-notch and return to the water, all egg-bearing female lobsters captured in the process of taking lobster.

Molesting of lobster pots – lobster pots, traps, warps (ropes), cars or buoys are private property, regardless of the location. This includes on the beach and in the rocks. No person except the owner or conservation officer can possess, lift, molest or disturb them. To do so can result in a fine of \$2,000 and up to 1 year in jail.

Non-Trap Limits – 100 lobsters per day; maximum of 500 lobsters for any fishing trip 5 days or more.

CHECK IT OUT!

www.wildlife.state.nh.us

- *Clamflat status*
- *Fishing forecasts*
- *Fishing information*
- *Record Fish*
- *Stocking Report*
- *Guides*

SHELLFISH

Blue Mussels (*Mytilus edulis*) – may be taken only from approved areas (see maps on pages 26 – 28). No license required; no limit.

Mollusks (clams, oysters, mussels, snails, etc.) – may only be taken from approved areas. (See map of approved shellfish areas on pages 26–28).

Oysters – open to residents only; license required; season closed July and August. Check maps on pages 26–28 for open areas. During season, 1 bushel of unshucked oysters may be taken daily by hand or hand tongs only, between sunrise and sunset. No shucked oysters may be possessed while on or leaving any waters under the jurisdiction of the state. Illegal to take through the ice. New Hampshire oysters may not be sold. Oyster license number must be permanently marked on the outside of the container. Harvester shall have license on person.

Sea Scallops – open season November 1-April 14; no limit; minimum size 3½ inches shell height. Scallops may be taken by diving or dredge. Dredge width limited to a maximum of 4 ft. License required to sell.

Softshell Clams – open to residents only, 6 years of age or older. Clam license required. License must be displayed while clamming. Ten liquid quarts unshucked clams per day may be taken one-half hour before sunrise to sunset on Saturday only, from the day after Labor Day to May 31. Closures during this period may occur due to high bacteria count or red tide. Hampton/Seabrook Harbor flats may not open until Nov. Call **1-800-43-CLAMS** for current clam flat information. Check maps on pages 26–28 for open areas. Handheld tools with handles not exceeding 18 inches may be used. No shucked clams are allowed on or while leaving the waters of the state. Clam license number must be permanently marked on the outside of the clam container. New Hampshire clams may not be sold.

Surf Clams, Mahogany Quahogs, and Razor Clams – open to residents only. Recreational harvest by hand or handheld tools; no license required. Commercial digging may be by dredge with blade or knife not

larger than 48 inches. Daily limit is 500 bushels of unshucked clams. Commercial license required.

Whelks – restricted to residents only, 2½ inch minimum size, fished by pot, trap or other contrivance; closed from sunset to one hour before sunrise.

NOTE: SHELLFISH CLOSURES MAY CHANGE —

Most of New Hampshire's coastal waters (up to 3 miles offshore) are open to shellfish harvest. However, several small areas along the coast remain closed due to pollution concerns. These areas include the outlets of Parsons Creek and Eel Pond in Rye, an unnamed creek near Bass Beach in Rye, and Chapel Brook and Little River in North Hampton. All waters within 750 feet of each outlet are closed to shellfish harvest. Also closed are areas around the wastewater treatment plant outlets at Wallis Sands State Park, the town of Seabrook and Star Island (Isles of Shoals). **Other areas may close temporarily at any time.** For up-to-date information, call N.H. Fish and Game's "Clam Hotline" at **1-800-43-CLAMS**, check www.wildlife.state.nh.us, and consult the information and maps on DES's Shellfish Program website: www.des.state.nh.us/wmb/shellfish.

WARNING
THIS AREA IS
CLOSED TO THE
TAKING OF ALL
MOLLUSKS,
e.g.
CLAMS
OYSTERS
MUSSELS

RED TIDE

Red tide is caused by the accumulation of toxic dinoflagellates (one-celled planktonic organisms). The toxins may be stored in the bodies of filter-feeding bivalves, such as clams, mussels and oysters, which ingest the organisms. Humans who eat the shellfish may become afflicted with paralytic shellfish poisoning (PSP), which can cause death through respiratory paralysis. Mussel samples are tested weekly from April - October. If PSP toxins exceed a safe level, shellfish harvesting areas are closed and public notice given via radio and newspaper. Contact Fish and Game Marine Fisheries Division weekdays (8 a.m.-4:00 p.m.) at (603) 868-1095 or Department of Environmental Services at (603) 430-7900 for updated information. Even when red tide closures are not in effect, many areas remain closed to the taking of shellfish. See pages 26-28 or contact the Marine Fisheries office for additional information.

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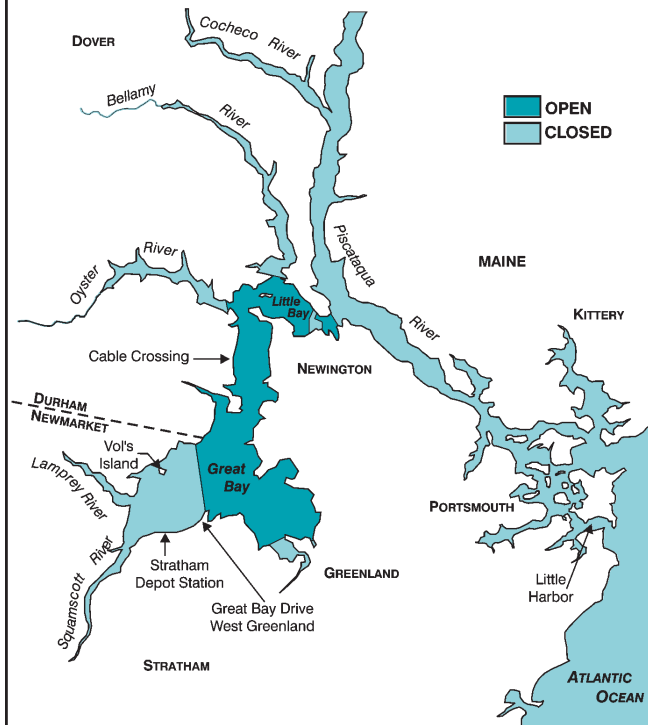
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603-742-5453 or 603-749-4211

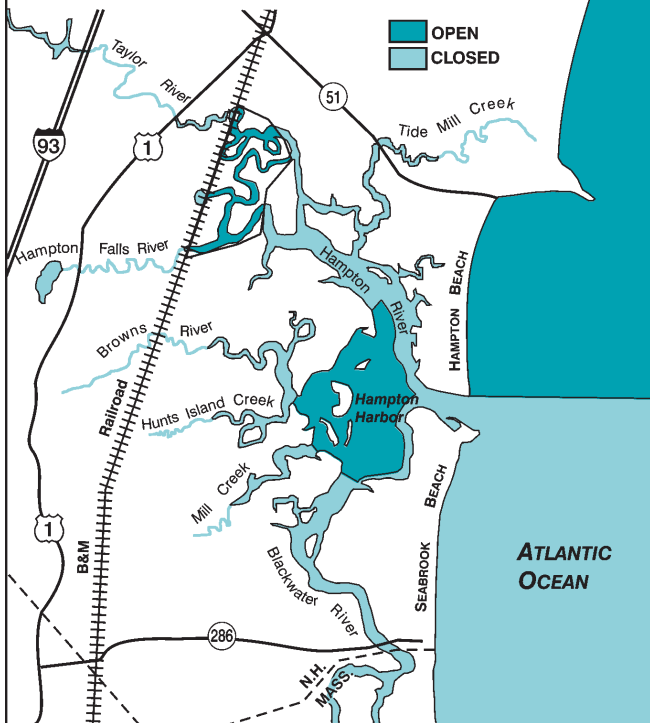
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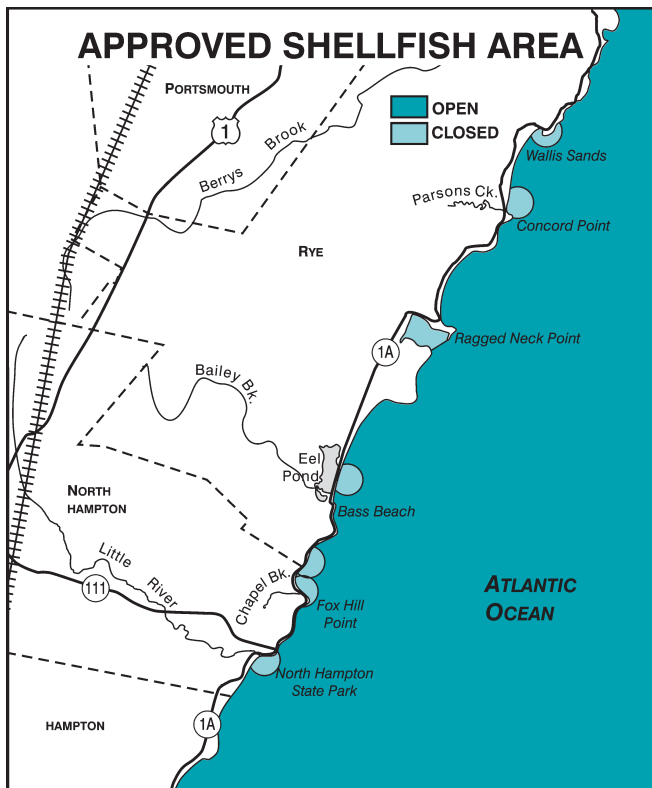


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GEAR RESTRICTIONS

Lobster Trap Construction – lobster traps shall not have a volume greater than 22,950 cubic inches. All lobster traps must have unobstructed escape vents or gaps. All traps must have 2 runners or sills and a biodegradable escape panel.

Escape vents or gaps – must be in the parlor section of the trap and may be:

- 1) A rectangular or oblong escape vent at least $1\frac{15}{16}$ inches by $5\frac{3}{4}$ inches, located next to the bottom edge;
- 2) Two circular vents at least $2\frac{7}{16}$ inches in diameter;
- 3) A gap created by raising, modifying or separating the horizontal or vertical laths so that they create openings as described in 1) or 2) above;
- 4) A gap caused by separating both ends of 2 laths $1\frac{3}{4}$ inches on the top of the parlor section next to the middle bow or supporting frame and directly over the parlor head;
- 5) Vents cut in the side or the end of a wire or plastic trap that comply with the dimensions in 1) and 2) above.

Biodegradable escape panels and runners – each trap must have escape panels and at least 2 runners or sills extending the entire length of the trap. Nothing may be placed in the parlor section of the trap that will obstruct the opening after disintegration of the fibre. The traps must be constructed in the following manner:

Rectangular wire or plastic mesh traps:

- 1) Every trap must have at least 2 parallel runners or sills attached to the bottom of the trap, running along the entire length of the exterior.
- 2) Every trap must have an unobstructed escape panel which must be:
 - a. located in the parlor section on the sides or end;

- b. hinged at the top of positively buoyant panels or at the bottom of negatively buoyant panels;
- c. tied with an untreated natural fiber such as cotton, sisal, hemp or jute not exceeding $\frac{3}{16}$ inches in diameter before immersion in sea water, or a piece of nonstainless, uncoated ferrous metal wire not exceeding $\frac{3}{32}$ inches in diameter; and
- d. of sufficient size to create an opening of at least $3\frac{3}{4}$ inches x $3\frac{3}{4}$ inches when the panel is removed or opened.

Non-rectangular wire or plastic mesh traps:

Must have at least 2 runners and an escape panel which will create an opening of $3\frac{3}{4}$ inches x $3\frac{3}{4}$ inches when open. These construction designs must be approved in writing by the executive director.

Wood lath traps – half round, round or rectangular:

- 1) Every trap must have at least 2 runners and an escape panel.
- 2) An escape panel can be created by 1 untreated, softwood lath running the full length of the parlor section. The lath must have the same dimensions as the other laths on the trap. It must not be located where it will rest on the sea bottom. After disintegration it must leave a space of at least $3\frac{3}{4}$ inches x $3\frac{3}{4}$ inches between the adjacent laths. One can also be created by an opening of at least 3 inches between adjacent laths, running the length of the parlor section, which is laced with an untreated natural fibre such as cotton, sisal, hemp, or jute not exceeding $\frac{3}{16}$ inches in diameter before immersion in sea-water.

Note: The executive director may exempt specific trap designs from the escape vent and escape panel requirements if it can be conclusively proven that the specific trap design will only take crabs and is incapable of catching lobster. Approval will be granted in writing only after inspection.

Gear Marking

Gear for the taking of crustaceans, whelks and finfish must be marked. All unattended gear (pots, traps, or nets) must be marked in the following manner:

- all fixed gear must be permanently marked with the owner's name;
- high flyer buoys must be permanently marked with the owner's name;
- pot or trap trawls must be marked with a single buoy made of highly visible material;
- gill nets and longline sets of 6,000 ft. or less must be buoyed on each end to support a vertical shaft at least 5 ft. high with a radar reflector of at least 100 sq. inches reflective material;
- flags and pennants affixed to buoys marking a string of gear must be of uniform color.

Lobster and crab pots or traps:

- the lobsterman's last name and initials must be plainly carved or branded on each pot or trap and buoy;
- any holding car or pen for keeping lobsters and crabs must be permanently marked with the owner's last name and initials carved or branded on it;
- each lobster or crab license holder has a color scheme or special markings indicated on his license. These must be used to mark all of his buoys. These colors must also be displayed on his boat, either by painting an area at least 1 ft. sq. on the port and starboard side of the bow or by setting a painted buoy on the highest point of the boat (excluding the mast) visible for 360 degrees. The buoy or colors must be permanently attached at all times while the lobster or crab gear is being fished.

Lobster trap tags – persons taking lobsters by trap are required to purchase trap tags up to the maximum allowed by their license (1,200 for commercial, 600 for limited commercial, 5 for recreational). Additional

trap tags are allowed for routine trap losses. Lobster trap tags are valid for 1 year (June 1 through May 31 of the following calendar year). A valid lobster trap tag shall be securely attached to the frame of the lobster trap in a manner for which it was designed. For more detailed information, contact Fish and Game's Region 3 office, 603-868-1095.

Whelk traps – when fishing solely for whelks, each buoy and trap shall be marked with a “W” and the first initial and last name of licensee.

Tending of pots and traps used for taking finfish – must be done between sunrise and sunset.

Gill nets – Gill nets used to take, transport or possess cod, haddock, yellowtail flounder or other groundfish shall have a minimum mesh of 6.5 inches and shall be no more than 300 feet in length. There is a limit of 25 gill nets per licensee. Gill nets used for the taking of finfish from the waters of Great Bay estuarine system inland of the Memorial Bridge in Portsmouth, Little Harbor and its tributaries inland of its most seaward jetty; Rye Harbor and its tributaries inland of its most seaward jetty; and inland of the Hampton Harbor Bridge shall be subject to the following:

1. Gill nets shall have a mesh size no larger than 3 inches;
2. Gill nets shall be no longer than 100 feet in length and not wider than 7 feet in width;
3. Gill netting shall only be permitted from April 16 through October 31, only between 2 hours before sunrise until 2 hours after sunset, except as provided in RSA 211:48-b.
4. Netter will be within unaided eyesight of net.

Mobile gear restrictions – minimum mesh size 6.5 inches to take, transport or possess cod, haddock, pollock, white hake, redfish, American plaice, windowpane, witch, winter and yellowtail flounders. No mobile gear may be used to take finfish in state waters.

Seines – Seines used for taking marine species shall not be greater than 50 square feet. Mesh shall be no smaller than 1/2 inch. Seines shall only be manually drawn, pulled or dragged through water.

General Information

REPORTING REQUIREMENTS

Commercial clamming – monthly report required. No softshell clam commercial harvesting is permitted.

Finfish and Horseshoe crabs – any person holding a permit to net or harvest from coastal waters is required to submit a monthly report of fishing activities. Forms are available from Fish and Game. Commercial fishermen are urged to voluntarily report catch information to the Department. Fishermen are also urged to participate in the National Marine Fisheries Service weighout program, which also provides landing data.

Lobster – all new entrants into the fishery are required to submit a monthly report of catch for at least 1 year. All others are required to participate in a reporting system which is based on a random selection of license holders. Report forms must be carried in the vessel and updated each day.

Shrimp – shrimp processors and primary dealers are required to report on a weekly basis. (See page 21.)

RESTRICTIONS

Operation of motor vehicles and OHRVs on Great Bay – no person may drive a vehicle or OHRV on the ice on Great Bay unless they hold a N.H. fishing license. No person may park or drive closer than 300 ft. to any occupied bobhouse, shanty, or fishing hole other than the one they occupy. Maximum speed limit is 10 MPH. Restrictions do not apply to rescue operations or public service.

Motor vehicles restricted from clam flats – motor vehicles are prohibited on any tidal area, exposed at low tide, that is capable of growing clams.

Marking fishing holes on Great Bay – unattended fishing holes must be covered by a bobhouse, or marked with a stake extending at least 18

inches above the ice, if they are greater than 112 sq. inches in area. All fishing holes should be marked for safety reasons.

Marking bobhouse or smelt shanty – owner's name and address must appear clearly marked on the outside of the bobhouse or shanty.

Removal of bobhouse or shanty – no smelt shanty or bobhouse can remain on public property, public waters, or on the property of another without permission after March 31.

SPECIES LIMITED TO RESIDENTS

Lobsters and Crabs – 5-year N.H. residency required.

Whelks and winkles, softshell clams, oysters, surf clams, mahogany clams, sand eels, alewives, razor clams and clam worms – 6-month N.H. residency required.

Sale prohibited – seaweed, rockweed or sea moss of N.H. origin may not be sold outside the state. Clams and oysters of N.H. origin, striped bass regardless of origin, and quahogs, littlenecks and cherrystones (*Mercenaria mercenaria*) less than 1 inch in the shell thickness cannot be sold.

IT IS UNLAWFUL TO:

- import any living marine plant or animal for release without a permit;
- set a net so it extends beyond the thread of the stream. The thread of stream means the center of the main channel;
- set a net within 1,000 feet of another net, measured along the thread of the stream;
- take lobsters by diving, spearing, or dipping;
- dump dead or injured fish or fish parts within bays, rivers, harbors, or upon the shores. This does not restrict the use of fish or fish parts for chum or bait, nor the releasing of dead or injured undersized fish taken by angling;
- be on a fishway without permission;

- take salmon or striped bass by netting, except when landing by use of hand-held dip nets;
- harvest finfish, horseshoe crabs or American eels in marine or tidal waters (if other than by angling) without obtaining a harvest permit.

CLOSED AREAS

All coastal waters – are closed to the use of mobile gear, except as permitted by the executive director.

Fishways – no person is allowed in or on a fishway without permission. The waters surrounding any dam containing a fishway are closed to all fishing (including finfish), except eels may be taken by traps, pots or spears within the tidal portions from June 15-October 1:

Cocheco River – from the upstream side of Central Ave. Bridge to downstream side of Washington St. Bridge in Dover.

Exeter River (downtown) – from the upstream side of High Street (Great) Bridge to downstream side of Chestnut Street (String) Bridge (on Squamscott River) in Exeter.

Exeter River (Pickpocket Dam) – from the upstream side of Pickpocket Dam and fishway, including a 50 ft. radius in front of fishway on the upstream side, to downstream side of Cross Roads Bridge in the towns of Brentwood and Exeter.

Lamprey River – from upstream side of the Route 108 Bridge to the downstream side of the McCallen Co. covered bridge walkway (tidal water) in Newmarket.

Oyster River – from the upstream side of dam and fishway, including a 50 ft. radius in front of the fishway, to the downstream side of Rte. 108 bridge in Durham.

Taylor River – from the upstream side of fishway and dams, including a 50 ft. radius in front of the fishway on the upstream side, to a line perpendicular to south end of south overflow culvert at Rte. 95 to opposite side of river (east).

Winnicut River – is open to angling from the dam and fish ladder to the south side of the Boston and Maine railroad bridge, except within a 25 ft. radius in front of the downstream portion of the fishway and within a 6 ft. radius upstream of the fishway.

Lamprey River – use of nets RSA 211:48-b. Contact Fish and Game at 271-3127 for full laws.

Piscataqua River, including Great Bay estuary and tributaries (inland of the Memorial Bridge) – is closed to the use of gill nets with mesh larger than 3 inches.

Rye Harbor – is closed to the taking of lobsters and crabs.

Taylor River – is closed to the taking of alewives and bluebacks (river herring) by netting of any kind west of Rte. 1.

SEARCH & SEIZURE

Prohibition

It is unlawful to throw, dump, destroy or otherwise dispose of any fish, lobsters, crabs, or shellfish when a conservation officer has informed a person his boat, motor vehicle, wharf, dock or landing, or contents thereof, are about to be inspected. The same applies to any pot, trap, car, or any other receptacle used to catch or store lobsters or crabs. Any person who refuses or attempts to refuse to stand by for such inspection is guilty of a misdemeanor. Any lobsters or crabs, thrown or dumped or caused to be thrown or dumped, are prima facie evidence they were illegally taken. A person is guilty of a violation for each lobster or crab thrown or dumped.

Search and Seizure

Any conservation officer has the power to search without a warrant any person, boat, conveyance and equipment capable of holding marine species when he has reasonable cause to suspect illegal taking of such species.

With a search warrant, he may enter any building, enclosure, motor vehicle or car, and break open and examine the contents of any apartment, chest, locker, box, trunk, crate, basket, bag, package or container.

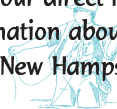
A conservation officer may seize and take possession of any marine species illegally caught, taken, killed, possessed or under control, or which have been or are about to be shipped.

Conservation officers may raise and examine any pot, trap, car or other contrivance used for the taking or holding of marine species, and seize same if used in violation of the laws, rules or regulations. Such equipment will be held until all fines and costs are paid in full. If not paid within 60 days after imposition, the equipment may be sold at public auction.

Conservation officers have authority to board any boat under jurisdiction of the state, with or without a warrant, if they suspect violations in taking marine species.

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Tide Tables/March 2003

Portland, ME

2003		PORTLAND TIDES		MARCH		PORTLAND TIDES		2003	
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY
30 9:30 HIGH 19:06 9:46 HIGH 6:2 9:54 LOW 5:08 10:02 LOW 3:53 10:10 HIGH 2:41	31 10:21 HIGH 19:43 10:37 HIGH 6:14 10:45 LOW 5:00 10:53 LOW 3:45 11:01 HIGH 2:33	NEW MOON FIRST QUARTER FULL MOON THIRD QUARTER NEW MOON	12:25 HIGH 12:36 12:35 HIGH 11:26 12:45 LOW 10:16 12:55 LOW 9:06 13:05 HIGH 7:56	12:54 HIGH 12:54 13:04 HIGH 11:54 13:14 LOW 10:44 13:24 LOW 9:34 13:34 HIGH 8:24	1:04 HIGH 1:04 1:14 HIGH 0:04 1:24 LOW 0:54 1:34 LOW 0:44 1:44 HIGH 0:34	1 9:05 HIGH 19:29 9:21 HIGH 6:11 9:38 LOW 4:57 9:55 LOW 3:43 10:12 HIGH 2:29	2 10:40 HIGH 19:18 11:00 HIGH 6:00 11:20 LOW 4:46 11:40 LOW 3:32 12:00 HIGH 2:18	3 11:25 HIGH 19:46 11:45 HIGH 6:18 12:05 LOW 5:04 12:25 LOW 3:50 12:45 HIGH 2:36	4 12:03 HIGH 19:46 12:23 HIGH 6:18 12:43 LOW 5:04 13:03 LOW 3:50 13:23 HIGH 2:36
9 9:40 HIGH 19:18 9:56 HIGH 6:00 10:12 LOW 4:46 10:28 LOW 3:32 10:44 HIGH 2:18	10 10:27 HIGH 19:46 10:47 HIGH 6:18 11:07 LOW 5:04 11:27 LOW 3:50 11:47 HIGH 2:36	11 11:03 HIGH 19:46 11:23 HIGH 6:18 11:43 LOW 5:04 12:03 LOW 3:50 12:23 HIGH 2:36	12 11:40 HIGH 19:46 12:00 HIGH 6:18 12:20 LOW 5:04 12:40 LOW 3:50 13:00 HIGH 2:36	13 12:16 HIGH 19:46 12:36 HIGH 6:18 12:56 LOW 5:04 13:16 LOW 3:50 13:36 HIGH 2:36	14 12:54 HIGH 19:46 13:14 HIGH 6:18 13:34 LOW 5:04 13:54 LOW 3:50 14:14 HIGH 2:36	15 13:31 HIGH 19:46 13:51 HIGH 6:18 14:11 LOW 5:04 14:31 LOW 3:50 14:51 HIGH 2:36	16 14:08 HIGH 19:46 14:28 HIGH 6:18 14:48 LOW 5:04 15:08 LOW 3:50 15:28 HIGH 2:36	17 14:45 HIGH 19:46 15:05 HIGH 6:18 15:25 LOW 5:04 15:45 LOW 3:50 16:05 HIGH 2:36	18 15:22 HIGH 19:46 15:42 HIGH 6:18 16:02 LOW 5:04 16:22 LOW 3:50 16:42 HIGH 2:36
23 9:27 HIGH 19:07 9:43 HIGH 6:03 9:59 LOW 4:49 10:15 LOW 3:35 10:31 HIGH 2:21	24 10:14 HIGH 19:44 10:30 HIGH 6:05 10:46 LOW 4:51 11:02 LOW 3:37 11:18 HIGH 2:23	25 10:51 HIGH 19:44 11:07 HIGH 6:05 11:23 LOW 4:51 11:39 LOW 3:37 11:55 HIGH 2:23	26 11:28 HIGH 19:44 11:44 HIGH 6:05 12:00 LOW 4:51 12:16 LOW 3:37 12:32 HIGH 2:23	27 12:05 HIGH 19:44 12:21 HIGH 6:05 12:37 LOW 4:51 12:53 LOW 3:37 13:09 HIGH 2:23	28 12:42 HIGH 19:44 12:58 HIGH 6:05 13:14 LOW 4:51 13:30 LOW 3:37 13:46 HIGH 2:23	29 13:19 HIGH 19:44 13:35 HIGH 6:05 13:51 LOW 4:51 14:07 LOW 3:37 14:23 HIGH 2:23	30 13:56 HIGH 19:44 14:12 HIGH 6:05 14:28 LOW 4:51 14:44 LOW 3:37 15:00 HIGH 2:23	31 14:33 HIGH 19:44 14:49 HIGH 6:05 15:05 LOW 4:51 15:21 LOW 3:37 15:37 HIGH 2:23	APRIL 1 15:10 HIGH 19:44 15:26 HIGH 6:05 15:42 LOW 4:51 15:58 LOW 3:37 16:14 HIGH 2:23

SUN: SUNRISE; MOON: MOONSET
 TIDES: STANDARD TIDES, CORRECTED FOR LOCAL RAFTING TIDE

Tide Tables/April 2003

Portland, ME

2003			APRIL			PORTLAND TIDES			2003				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1 HIGH 11:00 LOW 5:00 Height 8.9 Sun 5:24	2 HIGH 11:08 LOW 5:04 Height 8.5 Sun 5:25	3 HIGH 11:17 LOW 5:07 Height 8.3 Sun 5:24	4 HIGH 11:26 LOW 5:08 Height 8.1 Sun 5:23	5 HIGH 11:35 LOW 5:09 Height 7.9 Sun 5:22	6 HIGH 11:44 LOW 5:10 Height 7.7 Sun 5:21	7 HIGH 11:53 LOW 5:11 Height 7.5 Sun 5:20	8 HIGH 12:02 LOW 5:12 Height 7.3 Sun 5:19	9 HIGH 12:11 LOW 5:13 Height 7.1 Sun 5:18	10 HIGH 12:20 LOW 5:14 Height 6.9 Sun 5:17	11 HIGH 12:29 LOW 5:15 Height 6.7 Sun 5:16	12 HIGH 12:38 LOW 5:16 Height 6.5 Sun 5:15	13 HIGH 12:47 LOW 5:17 Height 6.3 Sun 5:14	14 HIGH 12:56 LOW 5:18 Height 6.1 Sun 5:13
15 HIGH 12:30 LOW 5:19 Height 6.3 Sun 5:12	16 HIGH 12:39 LOW 5:20 Height 6.1 Sun 5:11	17 HIGH 12:48 LOW 5:21 Height 5.9 Sun 5:10	18 HIGH 12:57 LOW 5:22 Height 5.7 Sun 5:09	19 HIGH 13:06 LOW 5:23 Height 5.5 Sun 5:08	20 HIGH 13:15 LOW 5:24 Height 5.3 Sun 5:07	21 HIGH 13:24 LOW 5:25 Height 5.1 Sun 5:06	22 HIGH 13:33 LOW 5:26 Height 4.9 Sun 5:05	23 HIGH 13:42 LOW 5:27 Height 4.7 Sun 5:04	24 HIGH 13:51 LOW 5:28 Height 4.5 Sun 5:03	25 HIGH 14:00 LOW 5:29 Height 4.3 Sun 5:02	26 HIGH 14:09 LOW 5:30 Height 4.1 Sun 5:01	27 HIGH 14:18 LOW 5:31 Height 3.9 Sun 5:00	28 HIGH 14:27 LOW 5:32 Height 3.7 Sun 4:59
29 HIGH 14:36 LOW 5:34 Height 3.3 Sun 4:57	30 HIGH 14:45 LOW 5:35 Height 3.1 Sun 4:56	1 HIGH 14:54 LOW 5:36 Height 2.9 Sun 4:55	2 HIGH 15:03 LOW 5:37 Height 2.7 Sun 4:54	3 HIGH 15:12 LOW 5:38 Height 2.5 Sun 4:53	4 HIGH 15:21 LOW 5:39 Height 2.3 Sun 4:52	5 HIGH 15:30 LOW 5:40 Height 2.1 Sun 4:51	6 HIGH 15:39 LOW 5:41 Height 1.9 Sun 4:50	7 HIGH 15:48 LOW 5:42 Height 1.7 Sun 4:49	8 HIGH 15:57 LOW 5:43 Height 1.5 Sun 4:48	9 HIGH 16:06 LOW 5:44 Height 1.3 Sun 4:47	10 HIGH 16:15 LOW 5:45 Height 1.1 Sun 4:46	11 HIGH 16:24 LOW 5:46 Height 0.9 Sun 4:45	12 HIGH 16:33 LOW 5:47 Height 0.7 Sun 4:44
13 HIGH 16:42 LOW 5:50 Height 0.5 Sun 4:40	14 HIGH 16:51 LOW 5:51 Height 0.3 Sun 4:39	15 HIGH 17:00 LOW 5:52 Height 0.1 Sun 4:38	16 HIGH 17:09 LOW 5:53 Height -0.1 Sun 4:37	17 HIGH 17:18 LOW 5:54 Height -0.3 Sun 4:36	18 HIGH 17:27 LOW 5:55 Height -0.5 Sun 4:35	19 HIGH 17:36 LOW 5:56 Height -0.7 Sun 4:34	20 HIGH 17:45 LOW 5:57 Height -0.9 Sun 4:33	21 HIGH 17:54 LOW 5:58 Height -1.1 Sun 4:32	22 HIGH 18:03 LOW 5:59 Height -1.3 Sun 4:31	23 HIGH 18:12 LOW 6:00 Height -1.5 Sun 4:30	24 HIGH 18:21 LOW 6:01 Height -1.7 Sun 4:29	25 HIGH 18:30 LOW 6:02 Height -1.9 Sun 4:28	26 HIGH 18:39 LOW 6:03 Height -2.1 Sun 4:27
27 HIGH 18:48 LOW 6:04 Height -2.3 Sun 4:26	28 HIGH 18:57 LOW 6:05 Height -2.5 Sun 4:25	29 HIGH 19:06 LOW 6:06 Height -2.7 Sun 4:24	30 HIGH 19:15 LOW 6:07 Height -2.9 Sun 4:23	1 HIGH 19:24 LOW 6:08 Height -3.1 Sun 4:22	2 HIGH 19:33 LOW 6:09 Height -3.3 Sun 4:21	3 HIGH 19:42 LOW 6:10 Height -3.5 Sun 4:20	4 HIGH 19:51 LOW 6:11 Height -3.7 Sun 4:19	5 HIGH 20:00 LOW 6:12 Height -3.9 Sun 4:18	6 HIGH 20:09 LOW 6:13 Height -4.1 Sun 4:17	7 HIGH 20:18 LOW 6:14 Height -4.3 Sun 4:16	8 HIGH 20:27 LOW 6:15 Height -4.5 Sun 4:15	9 HIGH 20:36 LOW 6:16 Height -4.7 Sun 4:14	10 HIGH 20:45 LOW 6:17 Height -4.9 Sun 4:13
11 HIGH 20:54 LOW 6:18 Height -5.1 Sun 4:12	12 HIGH 20:54 LOW 6:18 Height -5.1 Sun 4:12	13 HIGH 21:03 LOW 6:19 Height -5.3 Sun 4:11	14 HIGH 21:12 LOW 6:20 Height -5.5 Sun 4:10	15 HIGH 21:21 LOW 6:21 Height -5.7 Sun 4:09	16 HIGH 21:30 LOW 6:22 Height -5.9 Sun 4:08	17 HIGH 21:39 LOW 6:23 Height -6.1 Sun 4:07	18 HIGH 21:48 LOW 6:24 Height -6.3 Sun 4:06	19 HIGH 21:57 LOW 6:25 Height -6.5 Sun 4:05	20 HIGH 22:06 LOW 6:26 Height -6.7 Sun 4:04	21 HIGH 22:15 LOW 6:27 Height -6.9 Sun 4:03	22 HIGH 22:24 LOW 6:28 Height -7.1 Sun 4:02	23 HIGH 22:33 LOW 6:29 Height -7.3 Sun 4:01	24 HIGH 22:42 LOW 6:30 Height -7.5 Sun 4:00
25 HIGH 22:51 LOW 6:31 Height -7.7 Sun 3:59	26 HIGH 22:51 LOW 6:31 Height -7.7 Sun 3:59	27 HIGH 23:00 LOW 6:32 Height -7.9 Sun 3:58	28 HIGH 23:09 LOW 6:33 Height -8.1 Sun 3:57	29 HIGH 23:18 LOW 6:34 Height -8.3 Sun 3:56	30 HIGH 23:27 LOW 6:35 Height -8.5 Sun 3:55	1 HIGH 23:36 LOW 6:36 Height -8.7 Sun 3:54	2 HIGH 23:45 LOW 6:37 Height -8.9 Sun 3:53	3 HIGH 23:54 LOW 6:38 Height -9.1 Sun 3:52	4 HIGH 24:03 LOW 6:39 Height -9.3 Sun 3:51	5 HIGH 24:12 LOW 6:40 Height -9.5 Sun 3:50	6 HIGH 24:21 LOW 6:41 Height -9.7 Sun 3:49	7 HIGH 24:30 LOW 6:42 Height -9.9 Sun 3:48	8 HIGH 24:39 LOW 6:43 Height -10.1 Sun 3:47
9 HIGH 24:48 LOW 6:44 Height -10.3 Sun 3:46	10 HIGH 24:57 LOW 6:45 Height -10.5 Sun 3:45	11 HIGH 25:06 LOW 6:46 Height -10.7 Sun 3:44	12 HIGH 25:15 LOW 6:47 Height -10.9 Sun 3:43	13 HIGH 25:24 LOW 6:48 Height -11.1 Sun 3:42	14 HIGH 25:33 LOW 6:49 Height -11.3 Sun 3:41	15 HIGH 25:42 LOW 6:50 Height -11.5 Sun 3:40	16 HIGH 25:51 LOW 6:51 Height -11.7 Sun 3:39	17 HIGH 26:00 LOW 6:52 Height -11.9 Sun 3:38	18 HIGH 26:09 LOW 6:53 Height -12.1 Sun 3:37	19 HIGH 26:18 LOW 6:54 Height -12.3 Sun 3:36	20 HIGH 26:27 LOW 6:55 Height -12.5 Sun 3:35	21 HIGH 26:36 LOW 6:56 Height -12.7 Sun 3:34	22 HIGH 26:45 LOW 6:57 Height -12.9 Sun 3:33
23 HIGH 26:54 LOW 6:58 Height -13.1 Sun 3:32	24 HIGH 26:54 LOW 6:58 Height -13.1 Sun 3:32	25 HIGH 27:03 LOW 6:59 Height -13.3 Sun 3:31	26 HIGH 27:12 LOW 7:00 Height -13.5 Sun 3:30	27 HIGH 27:21 LOW 7:01 Height -13.7 Sun 3:29	28 HIGH 27:30 LOW 7:02 Height -13.9 Sun 3:28	29 HIGH 27:39 LOW 7:03 Height -14.1 Sun 3:27	30 HIGH 27:48 LOW 7:04 Height -14.3 Sun 3:26	1 HIGH 27:57 LOW 7:05 Height -14.5 Sun 3:25	2 HIGH 28:06 LOW 7:06 Height -14.7 Sun 3:24	3 HIGH 28:15 LOW 7:07 Height -14.9 Sun 3:23	4 HIGH 28:24 LOW 7:08 Height -15.1 Sun 3:22	5 HIGH 28:33 LOW 7:09 Height -15.3 Sun 3:21	6 HIGH 28:42 LOW 7:10 Height -15.5 Sun 3:20
10 HIGH 28:51 LOW 7:11 Height -15.7 Sun 3:19	11 HIGH 28:51 LOW 7:11 Height -15.7 Sun 3:19	12 HIGH 29:00 LOW 7:12 Height -15.9 Sun 3:18	13 HIGH 29:09 LOW 7:13 Height -16.1 Sun 3:17	14 HIGH 29:18 LOW 7:14 Height -16.3 Sun 3:16	15 HIGH 29:27 LOW 7:15 Height -16.5 Sun 3:15	16 HIGH 29:36 LOW 7:16 Height -16.7 Sun 3:14	17 HIGH 29:45 LOW 7:17 Height -16.9 Sun 3:13	18 HIGH 29:54 LOW 7:18 Height -17.1 Sun 3:12	19 HIGH 30:03 LOW 7:19 Height -17.3 Sun 3:11	20 HIGH 30:12 LOW 7:20 Height -17.5 Sun 3:10	21 HIGH 30:21 LOW 7:21 Height -17.7 Sun 3:09	22 HIGH 30:30 LOW 7:22 Height -17.9 Sun 3:08	23 HIGH 30:39 LOW 7:23 Height -18.1 Sun 3:07
27 HIGH 30:48 LOW 7:24 Height -18.3 Sun 3:06	28 HIGH 30:48 LOW 7:24 Height -18.3 Sun 3:06	29 HIGH 30:57 LOW 7:25 Height -18.5 Sun 3:05	30 HIGH 31:06 LOW 7:26 Height -18.7 Sun 3:04	1 HIGH 31:15 LOW 7:27 Height -18.9 Sun 3:03	2 HIGH 31:24 LOW 7:28 Height -19.1 Sun 3:02	3 HIGH 31:33 LOW 7:29 Height -19.3 Sun 3:01	4 HIGH 31:42 LOW 7:30 Height -19.5 Sun 3:00	5 HIGH 31:51 LOW 7:31 Height -19.7 Sun 2:59	6 HIGH 32:00 LOW 7:32 Height -19.9 Sun 2:58	7 HIGH 32:09 LOW 7:33 Height -20.1 Sun 2:57	8 HIGH 32:18 LOW 7:34 Height -20.3 Sun 2:56	9 HIGH 32:27 LOW 7:35 Height -20.5 Sun 2:55	10 HIGH 32:36 LOW 7:36 Height -20.7 Sun 2:54
17 HIGH 32:45 LOW 7:37 Height -20.9 Sun 2:53	18 HIGH 32:54 LOW 7:38 Height -21.1 Sun 2:52	19 HIGH 33:03 LOW 7:39 Height -21.3 Sun 2:51	20 HIGH 33:12 LOW 7:40 Height -21.5 Sun 2:50	21 HIGH 33:21 LOW 7:41 Height -21.7 Sun 2:49	22 HIGH 33:30 LOW 7:42 Height -21.9 Sun 2:48	23 HIGH 33:39 LOW 7:43 Height -22.1 Sun 2:47	24 HIGH 33:48 LOW 7:44 Height -22.3 Sun 2:46	25 HIGH 33:57 LOW 7:45 Height -22.5 Sun 2:45	26 HIGH 34:06 LOW 7:46 Height -22.7 Sun 2:44	27 HIGH 34:15 LOW 7:47 Height -22.9 Sun 2:43	28 HIGH 34:24 LOW 7:48 Height -23.1 Sun 2:42	29 HIGH 34:33 LOW 7:49 Height -23.3 Sun 2:41	30 HIGH 34:42 LOW 7:50 Height -23.5 Sun 2:40
6 HIGH 34:51 LOW 7:51 Height -23.7 Sun 2:39	7 HIGH 34:51 LOW 7:51 Height -23.7 Sun 2:39	8 HIGH 35:00 LOW 7:52 Height -23.9 Sun 2:38	9 HIGH 35:09 LOW 7:53 Height -24.1 Sun 2:37	10 HIGH 35:18 LOW 7:54 Height -24.3 Sun 2:36	11 HIGH 35:27 LOW 7:55 Height -24.5 Sun 2:35	12 HIGH 35:36 LOW 7:56 Height -24.7 Sun 2:34	13 HIGH 35:45 LOW 7:57 Height -24.9 Sun 2:33	14 HIGH 35:54 LOW 7:58 Height -25.1 Sun 2:32	15 HIGH 36:03 LOW 7:59 Height -25.3 Sun 2:31	16 HIGH 36:12 LOW 8:00 Height -25.5 Sun 2:30	17 HIGH 36:21 LOW 8:01 Height -25.7 Sun 2:29	18 HIGH 36:30 LOW 8:02 Height -25.9 Sun 2:28	19 HIGH 36:39 LOW 8:03 Height -26.1 Sun 2:27
26 HIGH 36:48 LOW 8:04 Height -26.3 Sun 2:26	27 HIGH 36:57 LOW 8:05 Height -26.5 Sun 2:25	28 HIGH 37:06 LOW 8:06 Height -26.7 Sun 2:24	29 HIGH 37:15 LOW 8:07 Height -26.9 Sun 2:23	30 HIGH 37:24 LOW 8:08 Height -27.1 Sun 2:22	1 HIGH 37:33 LOW 8:09 Height -27.3 Sun 2:21	2 HIGH 37:42 LOW 8:10 Height -27.5 Sun 2:20	3 HIGH 37:51 LOW 8:11 Height -27.7 Sun 2:19	4 HIGH 38:00 LOW 8:12 Height -27.9 Sun 2:18	5 HIGH 38:09 LOW 8:13 Height -28.1 Sun 2:17	6 HIGH 38:18 LOW 8:14 Height -28.3 Sun 2:16	7 HIGH 38:27 LOW 8:15 Height -28.5 Sun 2:15	8 HIGH 38:36 LOW 8:16 Height -28.7 Sun 2:14	9 HIGH 38:45 LOW 8:17 Height -28.9 Sun 2:13
16 HIGH 38:54 LOW 8:18 Height -29.1 Sun 2:12	17 HIGH 38:54 LOW 8:18 Height -29.1 Sun 2:12	18 HIGH 39:03 LOW 8:19 Height -29.3 Sun 2:11	19 HIGH 39:12 LOW 8:20 Height -29.5 Sun 2:10	20 HIGH 39:21 LOW 8:21 Height -29.7 Sun 2:09	21 HIGH 39:30 LOW 8:22 Height -29.9 Sun 2:08	22 HIGH 39:39 LOW 8:23 Height -30.1 Sun 2:07	23 HIGH 39:48 LOW 8:24 Height -30.3 Sun 2:06	24 HIGH 39:57 LOW 8:25 Height -30.5 Sun 2:05	25 HIGH 40:06 LOW 8:26 Height -30.7 Sun 2:04	26 HIGH 40:15 LOW 8:27 Height -30.9 Sun 2:03	27 HIGH 40:24 LOW 8:28 Height -31.1 Sun 2:02	28 HIGH 40:33 LOW 8:29 Height -31.3 Sun 2:01	29 HIGH 40:42 LOW 8:30 Height -31.5 Sun 2:00
28 HIGH 40:51 LOW 8:31 Height -31.7 Sun 1:59	29 HIGH 40:51 LOW 8:31 Height -31.7 Sun 1:59	30 HIGH 41:00 LOW 8:32 Height -31.9 Sun 1:58	1 HIGH 41:09 LOW 8:33 Height -32.1 Sun 1:57	2 HIGH 41:18 LOW 8:34 Height -32.3 Sun 1:56	3 HIGH 41:27 LOW 8:35 Height -32.5 Sun 1:55	4 HIGH 41:36 LOW 8:36 Height -32.7 Sun 1:54	5 HIGH 41:45 LOW 8:37 Height -32.9 Sun 1:53	6 HIGH 41:54 LOW 8:38 Height -33.1 Sun 1:52	7 HIGH 42:03 LOW 8:39 Height -33.3 Sun 1:51	8 HIGH 42:12 LOW 8:40 Height -33.5 Sun 1:50	9 HIGH 42:21 LOW 8:41 Height -33.7 Sun 1:49	10 HIGH 42:30 LOW 8:42 Height -33.9 Sun 1:48	11 HIGH 42:39 LOW 8:43 Height -34.1 Sun 1:47
19 HIGH 42:48 LOW 8:44 Height -34.3 Sun 1:46	20 HIGH 42:57 LOW 8:45 Height -34.5 Sun 1:45	21 HIGH 43:06 LOW 8:46 Height -34.7 Sun 1:44	22 HIGH 43:15 LOW 8:47 Height -34.9 Sun 1:43	23 HIGH 43:24 LOW 8:48 Height -35.1 Sun 1:42	24 HIGH 43:33 LOW 8:49 Height -35.3 Sun 1:41	25 HIGH 43:42 LOW 8:50 Height -35.5 Sun 1:40	26 HIGH 43:51 LOW 8:51 Height -35.7 Sun 1:39	27 HIGH 44:00 LOW 8:52 Height -35.9 Sun 1:38	28 HIGH 44:09 LOW 8:53 Height -36.1 Sun 1:37	29 HIGH 44:18 LOW 8:54 Height -36.3 Sun 1:36	30 HIGH 44:27 LOW 8:55 Height -36.5 Sun 1:35	1 HIGH 44:36 LOW 8:56 Height -36.7 Sun 1:34	2 HIGH 44:45 LOW 8:57 Height -36.9 Sun 1:33
9 HIGH 44:54 LOW 8:58 Height -37.1 Sun 1:32	10 HIGH 44:54 LOW 8:58 Height -37.1 Sun 1:32	11 HIGH 45:03 LOW 8:59 Height -37.3 Sun 1:31	12 HIGH 45:12 LOW 9:00 Height -37.5 Sun 1:30	13 HIGH 45:21 LOW 9:01 Height -37.7 Sun 1:29	14 HIGH 45:30 LOW 9:02 Height -37.9 Sun 1:28	15 HIGH 45:39 LOW 9:03 Height -38.1 Sun 1:27	16 HIGH 45:48 LOW 9:04 Height -38.3 Sun 1:26	17 HIGH 45:57 LOW 9:05 Height -38.5 Sun 1:25	18 HIGH 46:06 LOW 9:06 Height -38.7 Sun 1:24	19 HIGH 46:15 LOW 9:07 Height -38.9 Sun 1:23	20 HIGH 46:24 LOW 9:08 Height -39.1 Sun 1:22	21 HIGH 46:33 LOW 9:09 Height -39.3 Sun 1:21	22 HIGH 46:42 LOW 9:10 Height -39.5 Sun 1:20
30 HIGH 46:51 LOW 9:11 Height -39.7 Sun 1:19	31 HIGH 46:51 LOW 9:11 Height -39.7 Sun 1:19	1 HIGH 47:00 LOW 9:12 Height -39.9 Sun 1:18	2 HIGH 47:09 LOW 9:13 Height -40.1 Sun 1:17	3 HIGH 47:18 LOW 9:14 Height -40.3 Sun 1:16	4 HIGH 47:27 LOW 9:15 Height -40.5 Sun 1:15	5 HIGH 47:36 LOW 9:16 Height -40.7 Sun 1:14	6 HIGH 47:45 LOW 9:17 Height -40.9 Sun 1:13	7 HIGH 47:54 LOW 9:18 Height -41.1 Sun 1:12	8 HIGH 48:03 LOW 9:19 Height -41.3 Sun 1:11	9 HIGH 48:12 LOW 9:20 Height -41.5 Sun 1:10	10 HIGH 48:21 LOW 9:21 Height -41.7 Sun 1:09	11 HIGH 48:30 LOW 9:22 Height -41.9 Sun 1:08	12 HIGH 48:39 LOW 9:23 Height -42.1 Sun 1:07
21 HIGH 48:48 LOW 9:24 Height -42.3 Sun 1:06	22 HIGH 48:57 LOW 9:25 Height -42.5 Sun 1:05	23 HIGH 49:06 LOW 9:26 Height -42.7 Sun 1:04	24 HIGH 49:15 LOW 9:27 Height -42.9 Sun 1:03	25 HIGH 49:24 LOW 9:28 Height -43.1 Sun 1:02	26 HIGH 49:33 LOW 9:29 Height -43.3 Sun 1:01	27 HIGH 49:42 LOW 9:30 Height -43.5 Sun 1:00	28 HIGH 49:51 LOW 9:31 Height -43.7 Sun 11:59	29 HIGH 50:00 LOW 9:32 Height -43.9 Sun 11:58	30 HIGH 50:09 LOW 9:33 Height -44.1 Sun 11:57	1 HIGH 50:18 LOW 9:34 Height -44.3 Sun 11:56	2 HIGH 50:27 LOW 9:35 Height -44.5 Sun 11:55	3 HIGH 50:36 LOW 9:36 Height -44.7 Sun 11:54	4 HIGH 50:45 LOW 9:37 Height -44.9 Sun 11:53
13 HIGH 50:54 LOW 9:38 Height -45.1 Sun 11:52	14 HIGH 50:54 LOW 9:38 Height -45.1 Sun 11:52	15 HIGH 51:03 LOW 9:39 Height -45.3 Sun 11:51	16 HIGH 51:12 LOW 9:40 Height -45.5 Sun 11:50	17 HIGH 51:21 LOW 9:41 Height -45.7 Sun 11:49	18 HIGH 51:30 LOW 9:42 Height -45.9 Sun 11:48	19 HIGH 51:39 LOW 9:43 Height -46.1 Sun 11:47	20 HIGH 51:48 LOW 9:44 Height -46.3 Sun 11:46	21 HIGH 51:57 LOW 9:45 Height -46.5 Sun 11:45	22 HIGH 52:06 LOW 9:46 Height -46.7 Sun 11:44	23 HIGH 52:15 LOW 9:47 Height -46.9 Sun 11:43	24 HIGH 52:24 LOW 9:48 Height -47.1 Sun 11:42	25 HIGH 52:33 LOW 9:49 Height -47.3 Sun 11:41	26 HIGH 52:42 LOW 9:50 Height -47.5 Sun 11:40
26 HIGH 52:51 LOW 9:51 Height -47.7 Sun 11:39	27 HIGH 52:51 LOW 9:51 Height -47.7 Sun 11:39	28 HIGH 53:00 LOW 9:52 Height -47.9 Sun 11:38	29 HIGH 53:09 LOW 9:53 Height -48.1 Sun 11:37	30 HIGH 53:18 LOW 9:54 Height -48.3 Sun 11:36	1 HIGH 53:27 LOW 9:55 Height -48.5 Sun 11:35	2 HIGH 53:36 LOW 9:56 Height -48.7 Sun 11:34	3 HIGH 53:45 LOW 9:57 Height -48.9 Sun 11:33	4 HIGH 53:54 LOW 9:58 Height -49.1 Sun 11:32	5 HIGH 54:03 LOW 9:59 Height -49.3 Sun 11:31	6 HIGH 54:12 LOW 10:00 Height -49.5 Sun 11:30	7 HIGH 54:21 LOW 10:01 Height -49.7 Sun 11:29	8 HIGH 54:30 LOW 10:02 Height -49.9 Sun 11:28	9 HIGH 54:

EASTERN STANDARD TIME - CORRECTED FOR DAYLIGHT SAVINGS TIME

SUN DISAPPEARS BEHIND AND RISES

Tide Tables/May 2003

Portland, ME

2003		PORTLAND TIDES		MAY		PORTLAND TIDES		2003	
sun	monday	tuesday	wednesday	thursday	friday	saturday	sun	monday	tuesday
NEW MOON 11:17 FIRST QUARTER 12:45 FULL MOON 1:44 WAXING GIBB 2:40 WAXING GIBB 3:36	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
4	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
5	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
6	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
7	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
8	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
9	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
10	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
11	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
12	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
13	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
14	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
15	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
16	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
17	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
18	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
19	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
20	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
21	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
22	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
23	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
24	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
25	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
26	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
27	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
28	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
29	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
30	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04
31	1:56 1:20 1:44 1:56 2:08 2:20 2:32	2:36 2:00 2:24 2:36 2:48 3:00 3:12	3:24 2:48 3:12 3:24 3:36 3:48 4:00	4:08 3:32 3:56 4:08 4:20 4:32 4:44	4:48 4:12 4:36 4:48 5:00 5:12 5:24	5:28 4:52 5:16 5:28 5:40 5:52 6:04	6:08 5:32 5:56 6:08 6:20 6:32 6:44	6:48 6:12 6:36 6:48 7:00 7:12 7:24	7:28 6:52 7:16 7:28 7:40 7:52 8:04

EASTERN STANDARD TIMES - CONNECTED FOR DAYLIGHT SAVING TIME

LEARNING AND REASONING IN A CHANGING WORLD

Tide Tables/June 2003

Portland, ME

2003			PORTLAND TIDES			JUNE			PORTLAND TIDES			2003		
SUN	MON	TUE	WED	THUR	FRI	SAT	SUN	MON	TUE	WED	THUR	FRI	SAT	SUN
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
12:30 HIGH 9.7 Height 6:40 LOW 0.3 Height 5:53 Sun	1:02 HIGH 8.4 Height 6:45 LOW 0.4 Height 5:53 Sun	1:30 HIGH 8.3 Height 7:20 LOW 1.7 Height 5:53 Sun	2:14 HIGH 8.3 Height 8:40 LOW 1.7 Height 5:53 Sun	2:59 HIGH 8.1 Height 9:20 LOW 1.7 Height 5:53 Sun	3:46 HIGH 8.4 Height 9:55 LOW 1.7 Height 5:53 Sun	4:35 HIGH 8.4 Height 10:20 LOW 1.5 Height 5:53 Sun	5:28 HIGH 8.3 Height 12:50 LOW 1.5 Height 5:53 Sun	6:40 HIGH 8.4 Height 1:25 LOW 1.8 Height 5:53 Sun	7:40 HIGH 8.4 Height 2:20 LOW 1.8 Height 5:53 Sun	8:40 HIGH 8.4 Height 3:20 LOW 1.8 Height 5:53 Sun	9:40 HIGH 8.4 Height 4:20 LOW 1.8 Height 5:53 Sun	10:40 HIGH 8.4 Height 5:20 LOW 1.8 Height 5:53 Sun	11:40 HIGH 8.4 Height 6:20 LOW 1.8 Height 5:53 Sun	12:40 HIGH 8.4 Height 7:20 LOW 1.8 Height 5:53 Sun
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
6:54 HIGH 8.7 Height 12:00 LOW 1.5 Height 5:53 Sun	7:42 HIGH 8.4 Height 12:30 LOW 1.5 Height 5:53 Sun	8:30 HIGH 8.2 Height 1:00 LOW 1.4 Height 5:53 Sun	9:18 HIGH 8.0 Height 1:30 LOW 1.4 Height 5:53 Sun	10:06 HIGH 7.8 Height 2:00 LOW 1.3 Height 5:53 Sun	10:54 HIGH 7.6 Height 2:30 LOW 1.3 Height 5:53 Sun	11:42 HIGH 7.4 Height 3:00 LOW 1.3 Height 5:53 Sun	12:30 HIGH 7.2 Height 3:30 LOW 1.3 Height 5:53 Sun	1:18 HIGH 7.0 Height 4:00 LOW 1.3 Height 5:53 Sun	2:06 HIGH 6.8 Height 4:30 LOW 1.3 Height 5:53 Sun	2:54 HIGH 6.6 Height 5:00 LOW 1.3 Height 5:53 Sun	3:42 HIGH 6.4 Height 5:30 LOW 1.3 Height 5:53 Sun	4:30 HIGH 6.2 Height 6:00 LOW 1.3 Height 5:53 Sun	5:18 HIGH 6.0 Height 6:30 LOW 1.3 Height 5:53 Sun	6:06 HIGH 5.8 Height 7:00 LOW 1.3 Height 5:53 Sun
30														
12:00 HIGH 8.3 Height 6:25 LOW 0.4 Height 5:53 Sun	12:00 HIGH 8.3 Height 6:25 LOW 0.4 Height 5:53 Sun	12:00 HIGH 8.3 Height 6:25 LOW 0.4 Height 5:53 Sun	12:00 HIGH 8.3 Height 6:25 LOW 0.4 Height 5:53 Sun	12:00 HIGH 8.3 Height 6:25 LOW 0.4 Height 5:53 Sun	12:00 HIGH 8.3 Height 6:25 LOW 0.4 Height 5:53 Sun	12:00 HIGH 8.3 Height 6:25 LOW 0.4 Height 5:53 Sun	12:00 HIGH 8.3 Height 6:25 LOW 0.4 Height 5:53 Sun	12:00 HIGH 8.3 Height 6:25 LOW 0.4 Height 5:53 Sun	12:00 HIGH 8.3 Height 6:25 LOW 0.4 Height 5:53 Sun	12:00 HIGH 8.3 Height 6:25 LOW 0.4 Height 5:53 Sun	12:00 HIGH 8.3 Height 6:25 LOW 0.4 Height 5:53 Sun	12:00 HIGH 8.3 Height 6:25 LOW 0.4 Height 5:53 Sun	12:00 HIGH 8.3 Height 6:25 LOW 0.4 Height 5:53 Sun	12:00 HIGH 8.3 Height 6:25 LOW 0.4 Height 5:53 Sun

EASTERN STANDARD TIMES - CORRECTED FOR DAYLIGHT SAVING TIME

SUN DENOTES SURGE AND SLABSET

Tide Tables/July 2003

Portland, ME

2003

PORTLAND TIDES

JULY

PORTLAND TIDES

2003

SUN	SUNDAY	am	MONDAY	am	TUESDAY	am	WEDNESDAY	am	THURSDAY	am	FRIDAY	am	SATURDAY	am			
					1	12:34 HIGH 5:3 LOW 12:00 5:04	1:17 HIGH 5:9 LOW 1:00 5:04	1:53 HIGH 5:8 LOW 1:3 5:27	2	1:25 HIGH 5:13 LOW 1:43 5:27	2:59 HIGH 5:8 LOW 2:09 5:05	3	3:25 HIGH 5:13 LOW 2:18 5:05	4	3:25 HIGH 5:8 LOW 2:18 5:05	5	4:18 HIGH 5:8 LOW 2:18 5:05
					8	5:08 HIGH 12:34 LOW 5:08	5:23 HIGH 1:03 LOW 1:29 5:08	5:27 HIGH 1:33 LOW 1:43 5:27	9	5:23 HIGH 1:03 LOW 1:29 5:08	5:45 HIGH 1:29 LOW 2:09 5:21	10	5:45 HIGH 1:29 LOW 2:18 5:26	11	5:26 HIGH 1:29 LOW 2:18 5:26	12	5:26 HIGH 1:29 LOW 2:18 5:26
					13	5:08 HIGH 12:34 LOW 5:08	5:23 HIGH 1:03 LOW 1:29 5:08	5:27 HIGH 1:33 LOW 1:43 5:27	14	5:23 HIGH 1:03 LOW 1:29 5:08	5:45 HIGH 1:29 LOW 2:09 5:21	15	5:45 HIGH 1:29 LOW 2:18 5:26	16	5:26 HIGH 1:29 LOW 2:18 5:26	17	5:26 HIGH 1:29 LOW 2:18 5:26
					20	5:08 HIGH 12:34 LOW 5:08	5:23 HIGH 1:03 LOW 1:29 5:08	5:27 HIGH 1:33 LOW 1:43 5:27	21	5:23 HIGH 1:03 LOW 1:29 5:08	5:45 HIGH 1:29 LOW 2:09 5:21	22	5:45 HIGH 1:29 LOW 2:18 5:26	23	5:26 HIGH 1:29 LOW 2:18 5:26	24	5:26 HIGH 1:29 LOW 2:18 5:26
					26	5:08 HIGH 12:34 LOW 5:08	5:23 HIGH 1:03 LOW 1:29 5:08	5:27 HIGH 1:33 LOW 1:43 5:27	27	5:23 HIGH 1:03 LOW 1:29 5:08	5:45 HIGH 1:29 LOW 2:09 5:21	28	5:45 HIGH 1:29 LOW 2:18 5:26	29	5:26 HIGH 1:29 LOW 2:18 5:26	30	5:26 HIGH 1:29 LOW 2:18 5:26
					31	5:08 HIGH 12:34 LOW 5:08	5:23 HIGH 1:03 LOW 1:29 5:08	5:27 HIGH 1:33 LOW 1:43 5:27	1	5:23 HIGH 1:03 LOW 1:29 5:08	5:45 HIGH 1:29 LOW 2:09 5:21	2	5:45 HIGH 1:29 LOW 2:18 5:26	3	5:26 HIGH 1:29 LOW 2:18 5:26	4	5:26 HIGH 1:29 LOW 2:18 5:26

EASTERN STANDARD TIME - CORRECTED FOR DAYLIGHT SAVINGS TIME

SUN DENOTES SUNRISE AND SUNSET

EASTERN STANDARD TIME - CORRECTED FOR DAYLIGHT SAVINGS TIME

SUN DENOTES SURGE AND SLUGGET

Tide Tables/August 2003

Portland, ME

2003			PORTLAND TIDES			AUGUST			PORTLAND TIDES			2003		
sun.	mon.	tue.	wed.	thurs.	friday	saturday	sun.	mon.	tue.	wed.	thurs.	friday	saturday	sun.
31	1	2	3	4	5	6	7	8	9	10	11	12	13	14
2:00 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:06 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:12 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:18 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:24 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:30 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:36 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:42 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:48 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:54 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:00 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:06 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:12 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:18 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:24 HIGH 10.4 8:04 LOW -0.5 6:04 Sun
2:00 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:06 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:12 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:18 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:24 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:30 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:36 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:42 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:48 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:54 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:00 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:06 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:12 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:18 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:24 HIGH 10.4 8:04 LOW -0.5 6:04 Sun
2:00 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:06 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:12 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:18 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:24 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:30 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:36 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:42 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:48 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:54 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:00 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:06 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:12 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:18 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:24 HIGH 10.4 8:04 LOW -0.5 6:04 Sun
2:00 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:06 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:12 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:18 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:24 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:30 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:36 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:42 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:48 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	2:54 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:00 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:06 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:12 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:18 HIGH 10.4 8:04 LOW -0.5 6:04 Sun	3:24 HIGH 10.4 8:04 LOW -0.5 6:04 Sun

EASTERN STANDARD TIMES - CONVERTED FOR DAYLIGHT SAVING TIME

SUN DENOTES SUNRISE AND SUNSET

Tide Tables/September 2003

Portland, ME

2003

PORTLAND TIDES

SEPTEMBER

PORTLAND TIDES

2003

SUN	MON	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1 HIGH 2:54 LOW 11:2 -0.4 6:05 Sun	2 HIGH 3:17 LOW 9:02 -0.4 6:05 Sun	3 HIGH 4:01 LOW 10:34 -0.3 6:07 Sun	4 HIGH 4:48 LOW 10:46 -0.3 6:07 Sun	5 HIGH 5:09 LOW 11:52 0.0 6:08 Sun	6 HIGH 5:21 LOW 12:09 1.0 6:10 Sun	
7 HIGH 9:30 LOW 3:18 6:11 Sun	8 HIGH 9:58 LOW 4:07 6:15 Sun	9 HIGH 10:26 LOW 4:48 0.3 6:16 Sun	10 HIGH 11:40 LOW 5:40 0.3 6:15 Sun	11 HIGH 12:58 LOW 6:28 1.1 6:17 Sun	12 HIGH 1:00 LOW 7:29 0.3 6:18 Sun	
14 HIGH 9:58 LOW 3:46 6:19 Sun	15 HIGH 10:26 LOW 4:14 6:20 Sun	16 HIGH 10:54 LOW 4:42 0.3 6:21 Sun	17 HIGH 11:40 LOW 5:40 0.3 6:20 Sun	18 HIGH 12:58 LOW 6:28 1.1 6:22 Sun	19 HIGH 1:00 LOW 7:29 0.3 6:23 Sun	
21 HIGH 10:26 LOW 4:42 6:27 Sun	22 HIGH 10:54 LOW 5:10 6:28 Sun	23 HIGH 11:22 LOW 5:38 6:29 Sun	24 HIGH 11:50 LOW 6:06 6:30 Sun	25 HIGH 12:18 LOW 6:34 6:31 Sun	26 HIGH 12:46 LOW 7:02 6:32 Sun	
28 HIGH 11:50 LOW 6:06 6:33 Sun	29 HIGH 12:18 LOW 6:34 6:34 Sun	30 HIGH 12:46 LOW 7:02 6:35 Sun				
FIRST QUARTER MOON FULL MOON 1ST 3RD QUARTER MOON NEW MOON 2ND						

EASTERN STANDARD TIME - CORRECTED FOR DAYLIGHT SAVINGS TIME

SUN DENOTES SUNRISE AND SUNSET

Tide Tables/October 2003

Portland, ME

2003

PORTLAND TIDES

OCTOBER

PORTLAND TIDES

2003

SUN	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8:02 HIGH 8.7 Height 9.3 LOW 2.90 Height 1.1 8.41 Sun	8:19 HIGH 9.3 Height 9.8 LOW 2.40 Height 1.1 8.41 Sun	8:54 HIGH 9.8 Height 10.3 LOW 2.00 Height 1.1 8.41 Sun	9:24 HIGH 10.3 Height 10.8 LOW 1.60 Height 1.1 8.41 Sun	9:54 HIGH 10.8 Height 11.3 LOW 1.10 Height 1.1 8.41 Sun	10:24 HIGH 11.3 Height 11.8 LOW 0.60 Height 1.1 8.41 Sun	10:54 HIGH 11.8 Height 12.3 LOW 0.10 Height 1.1 8.41 Sun	11:24 HIGH 12.3 Height 12.8 LOW 0.40 Height 1.1 8.41 Sun
12:06 HIGH 9.3 Height 9.8 LOW 2.21 Height 0.3 8.41 Sun	12:36 HIGH 9.8 Height 10.3 LOW 1.71 Height 0.3 8.41 Sun	13:06 HIGH 10.3 Height 10.8 LOW 1.21 Height 0.3 8.41 Sun	13:36 HIGH 10.8 Height 11.3 LOW 0.71 Height 0.3 8.41 Sun	14:06 HIGH 11.3 Height 11.8 LOW 0.21 Height 0.3 8.41 Sun	14:36 HIGH 11.8 Height 12.3 LOW 0.71 Height 0.3 8.41 Sun	15:06 HIGH 12.3 Height 12.8 LOW 1.21 Height 0.3 8.41 Sun	15:36 HIGH 12.8 Height 13.3 LOW 1.71 Height 0.3 8.41 Sun
19:04 HIGH 7.6 Height 8.1 LOW 2.3 Height 0.3 8.41 Sun	19:34 HIGH 7.6 Height 8.1 LOW 2.3 Height 0.3 8.41 Sun	20:04 HIGH 8.1 Height 8.6 LOW 1.8 Height 0.3 8.41 Sun	20:34 HIGH 8.6 Height 9.1 LOW 1.3 Height 0.3 8.41 Sun	21:04 HIGH 9.1 Height 9.6 LOW 0.8 Height 0.3 8.41 Sun	21:34 HIGH 9.6 Height 10.1 LOW 0.3 Height 0.3 8.41 Sun	22:04 HIGH 10.1 Height 10.6 LOW 0.8 Height 0.3 8.41 Sun	22:34 HIGH 10.6 Height 11.1 LOW 1.3 Height 0.3 8.41 Sun
26:00 HIGH 11.5 Height 12.0 LOW 4.40 Height 0.3 8.41 Sun	26:30 HIGH 12.0 Height 12.5 LOW 3.90 Height 0.3 8.41 Sun	27:00 HIGH 12.5 Height 13.0 LOW 3.40 Height 0.3 8.41 Sun	27:30 HIGH 13.0 Height 13.5 LOW 2.90 Height 0.3 8.41 Sun	28:00 HIGH 13.5 Height 14.0 LOW 2.40 Height 0.3 8.41 Sun	28:30 HIGH 14.0 Height 14.5 LOW 1.90 Height 0.3 8.41 Sun	29:00 HIGH 14.5 Height 15.0 LOW 1.40 Height 0.3 8.41 Sun	29:30 HIGH 15.0 Height 15.5 LOW 0.90 Height 0.3 8.41 Sun

EASTERN STANDARD TIMES - CORRECTED FOR DAYLIGHT SAVING TIME

SUN DROPPES SEABEAM AND SENSIT

Tide Tables/November 2003

Portland, ME

2003		PORTLAND TIDES		NOVEMBER		PORTLAND TIDES		2003	
SUN	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUN	MONDAY	TUESDAY
30	11:07 HIGH 11:11 LOW 11:15 LOW 11:19 LOW 11:23 LOW 11:27 LOW 11:31 LOW 11:35 LOW 11:39 LOW 11:43 LOW 11:47 LOW 11:51 LOW 11:55 LOW 11:59 LOW 12:03 LOW 12:07 LOW 12:11 LOW 12:15 LOW 12:19 LOW 12:23 LOW 12:27 LOW 12:31 LOW 12:35 LOW 12:39 LOW 12:43 LOW 12:47 LOW 12:51 LOW 12:55 LOW 12:59 LOW 13:03 LOW 13:07 LOW 13:11 LOW 13:15 LOW 13:19 LOW 13:23 LOW 13:27 LOW 13:31 LOW 13:35 LOW 13:39 LOW 13:43 LOW 13:47 LOW 13:51 LOW 13:55 LOW 13:59 LOW 14:03 LOW 14:07 LOW 14:11 LOW 14:15 LOW 14:19 LOW 14:23 LOW 14:27 LOW 14:31 LOW 14:35 LOW 14:39 LOW 14:43 LOW 14:47 LOW 14:51 LOW 14:55 LOW 14:59 LOW 15:03 LOW 15:07 LOW 15:11 LOW 15:15 LOW 15:19 LOW 15:23 LOW 15:27 LOW 15:31 LOW 15:35 LOW 15:39 LOW 15:43 LOW 15:47 LOW 15:51 LOW 15:55 LOW 15:59 LOW 16:03 LOW 16:07 LOW 16:11 LOW 16:15 LOW 16:19 LOW 16:23 LOW 16:27 LOW 16:31 LOW 16:35 LOW 16:39 LOW 16:43 LOW 16:47 LOW 16:51 LOW 16:55 LOW 16:59 LOW 17:03 LOW 17:07 LOW 17:11 LOW 17:15 LOW 17:19 LOW 17:23 LOW 17:27 LOW 17:31 LOW 17:35 LOW 17:39 LOW 17:43 LOW 17:47 LOW 17:51 LOW 17:55 LOW 17:59 LOW 18:03 LOW 18:07 LOW 18:11 LOW 18:15 LOW 18:19 LOW 18:23 LOW 18:27 LOW 18:31 LOW 18:35 LOW 18:39 LOW 18:43 LOW 18:47 LOW 18:51 LOW 18:55 LOW 18:59 LOW 19:03 LOW 19:07 LOW 19:11 LOW 19:15 LOW 19:19 LOW 19:23 LOW 19:27 LOW 19:31 LOW 19:35 LOW 19:39 LOW 19:43 LOW 19:47 LOW 19:51 LOW 19:55 LOW 19:59 LOW 20:03 LOW 20:07 LOW 20:11 LOW 20:15 LOW 20:19 LOW 20:23 LOW 20:27 LOW 20:31 LOW 20:35 LOW 20:39 LOW 20:43 LOW 20:47 LOW 20:51 LOW 20:55 LOW 20:59 LOW 21:03 LOW 21:07 LOW 21:11 LOW 21:15 LOW 21:19 LOW 21:23 LOW 21:27 LOW 21:31 LOW 21:35 LOW 21:39 LOW 21:43 LOW 21:47 LOW 21:51 LOW 21:55 LOW 21:59 LOW 22:03 LOW 22:07 LOW 22:11 LOW 22:15 LOW 22:19 LOW 22:23 LOW 22:27 LOW 22:31 LOW 22:35 LOW 22:39 LOW 22:43 LOW 22:47 LOW 22:51 LOW 22:55 LOW 22:59 LOW 23:03 LOW 23:07 LOW 23:11 LOW 23:15 LOW 23:19 LOW 23:23 LOW 23:27 LOW 23:31 LOW 23:35 LOW 23:39 LOW 23:43 LOW 23:47 LOW 23:51 LOW 23:55 LOW 23:59 LOW 00:03 LOW 00:07 LOW 00:11 LOW 00:15 LOW 00:19 LOW 00:23 LOW 00:27 LOW 00:31 LOW 00:35 LOW 00:39 LOW 00:43 LOW 00:47 LOW 00:51 LOW 00:55 LOW 00:59 LOW 01:03 LOW 01:07 LOW 01:11 LOW 01:15 LOW 01:19 LOW 01:23 LOW 01:27 LOW 01:31 LOW 01:35 LOW 01:39 LOW 01:43 LOW 01:47 LOW 01:51 LOW 01:55 LOW 01:59 LOW 02:03 LOW 02:07 LOW 02:11 LOW 02:15 LOW 02:19 LOW 02:23 LOW 02:27 LOW 02:31 LOW 02:35 LOW 02:39 LOW 02:43 LOW 02:47 LOW 02:51 LOW 02:55 LOW 02:59 LOW 03:03 LOW 03:07 LOW 03:11 LOW 03:15 LOW 03:19 LOW 03:23 LOW 03:27 LOW 03:31 LOW 03:35 LOW 03:39 LOW 03:43 LOW 03:47 LOW 03:51 LOW 03:55 LOW 03:59 LOW 04:03 LOW 04:07 LOW 04:11 LOW 04:15 LOW 04:19 LOW 04:23 LOW 04:27 LOW 04:31 LOW 04:35 LOW 04:39 LOW 04:43 LOW 04:47 LOW 04:51 LOW 04:55 LOW 04:59 LOW 05:03 LOW 05:07 LOW 05:11 LOW 05:15 LOW 05:19 LOW 05:23 LOW 05:27 LOW 05:31 LOW 05:35 LOW 05:39 LOW 05:43 LOW 05:47 LOW 05:51 LOW 05:55 LOW 05:59 LOW 06:03 LOW 06:07 LOW 06:11 LOW 06:15 LOW 06:19 LOW 06:23 LOW 06:27 LOW 06:31 LOW 06:35 LOW 06:39 LOW 06:43 LOW 06:47 LOW 06:51 LOW 06:55 LOW 06:59 LOW 07:03 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LOW 20:27 LOW 20:31 LOW 20:35 LOW 20:39 LOW 20:43 LOW 20:47 LOW 20:51 LOW 20:55 LOW 20:59 LOW 21:03 LOW 21:07 LOW 21:11 LOW 21:15 LOW 21:19 LOW 21:23 LOW 21:27 LOW 21:31 LOW 21:35 LOW 21:39 LOW 21:43 LOW 21:47 LOW 21:51 LOW 21:55 LOW 21:59 LOW 22:03 LOW 22:07 LOW 22:11 LOW 22:15 LOW 22:19 LOW 22:23 LOW 22:27 LOW 22:31 LOW 22:35 LOW 22:39 LOW 22:43 LOW 22:47 LOW 22:51 LOW 22:55 LOW 22:59 LOW 23:03 LOW 23:07 LOW 23:11 LOW 23:15 LOW 23:19 LOW 23:23 LOW 23:27 LOW 23:31 LOW 23:35 LOW 23:39 LOW 23:43 LOW 23:47 LOW 23:51 LOW 23:55 LOW 23:59 LOW 00:03 LOW 00:07 LOW 00:11 LOW 00:15 LOW 00:19 LOW 00:23 LOW 00:27 LOW 00:31 LOW 00:35 LOW 00:39 LOW 00:43 LOW 00:47 LOW 00:51 LOW 00:55 LOW 00:59 LOW 01:03 LOW 01:07 LOW 01:11 LOW 01:15 LOW 01:19 LOW 01:23 LOW 01:27 LOW 01:31 LOW 01:35 LOW 01:39 LOW 01:43 LOW 01:47 LOW 01:51 LOW 01:55 LOW 01:59 LOW 02:03 LOW 02:07 LOW 02:11 LOW 02:15 LOW 02:19 LOW 02:23 LOW 02:27 LOW 02:31 LOW 02:35 LOW 02:39 LOW 02:43 LOW 02:47 LOW 02:51 LOW 02:55 LOW 02:59 LOW 03:03 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LOW 09:47 LOW 09:51 LOW 09:55 LOW 09:59 LOW 10:03 LOW 10:07 LOW 10:11 LOW 10:15 LOW 10:19 LOW 10:23 LOW 10:27 LOW 10:31 LOW 10:35 LOW 10:39 LOW 10:43 LOW 10:47 LOW 10:51 LOW 10:55 LOW 10:59 LOW 11:03 LOW 11:07 LOW 11:11 LOW 11:15 LOW 11:19 LOW 11:23 LOW 11:27 LOW 11:31 LOW 11:35 LOW 11:39 LOW 11:43 LOW 11:47 LOW 11:51 LOW 11:55 LOW 11:59 LOW 12:03 LOW 12:07 LOW 12:11 LOW 12:15 LOW 12:19 LOW 12:23 LOW 12:27 LOW 12:31 LOW 12:35 LOW 12:39 LOW 12:43 LOW 12:47 LOW 12:51 LOW 12:55 LOW 12:59 LOW 13:03 LOW 13:07 LOW 13:11 LOW 13:15 LOW 13:19 LOW 13:23 LOW 13:27 LOW 13:31 LOW 13:35 LOW 13:39 LOW 13:43 LOW 13:47 LOW 13:51 LOW 13:55 LOW 13:59 LOW 14:03 LOW 14:07 LOW 14:11 LOW 14:15 LOW 14:19 LOW 14:23 LOW 14:27 LOW 14:31 LOW 14:35 LOW 14:39 LOW 14:43 LOW 14:47 LOW 14:51 LOW 14:55 LOW 14:59 LOW 15:03 LOW 15:07 LOW 15:11 LOW 15:15 LOW 15:19 LOW 15:23 LOW 15:27 LOW 15:31 LOW 15:35 LOW 15:39 LOW 15:43 LOW 15:47 LOW 15:51 LOW 15:55 LOW 15:59 LOW 16:03 LOW 16:07 LOW 16:11 LOW 16:15 LOW 16:19 LOW 16:23 LOW 16:27 LOW 16:31 LOW 16:35 LOW 16:39 LOW 16:43 LOW 16:47 LOW 16:51 LOW 16:55 LOW 16:59 LOW 17:03 LOW 17:07 LOW 17:11 LOW 17:15 LOW 17:19 LOW 17:23 LOW 17:27 LOW 17:31 LOW 17:35 LOW 17:39 LOW 17:43 LOW 17:47 LOW 17:51 LOW 17:55 LOW 17:59 LOW 18:03 LOW 18:07 LOW 18:11 LOW 18:15 LOW 18:19 LOW 18:23 LOW 18:27 LOW 18:31 LOW 18:35 LOW 18:39 LOW 18:43 LOW 18:47 LOW 18:51 LOW 18:55 LOW 18:59 LOW 19:03 LOW 19:07 LOW 19:11 LOW 19:15 LOW 19:19 LOW 19:23 LOW 19:27 LOW 19:31 LOW 19:35 LOW 19:39 LOW 19:43 LOW 19:47 LOW 19:51 LOW 19:55 LOW 19:59 LOW 20:03 LOW 20:07 LOW 20:11 LOW 20:15 LOW 20:19 LOW 20:23 LOW 20:27 LOW 20:31 LOW 20:35 LOW 20:39 LOW 20:43 LOW 20:47 LOW 20:51 LOW 20:55 LOW 20:59 LOW 21:03 LOW 21:07 LOW 21:11 LOW 21:15 LOW 21:19 LOW 21:23 LOW 21:27 LOW 21:31 LOW 21:35 LOW 21:39 LOW 21:43 LOW 21:47 LOW 21:51 LOW 21:55 LOW 21:59 LOW 22:03 LOW 22:07 LOW 22:11 LOW 22:15 LOW 22:19 LOW 22:23 LOW 22:27 LOW 22:31 LOW 22:35 LOW 22:39 LOW 22:43 LOW 22:47 LOW 22:51 LOW 22:55 LOW 22:59 LOW 23:03 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LOW 05:47 LOW 05:51 LOW 05:55 LOW 05:59 LOW 06:03 LOW 06:07 LOW 06:11 LOW 06:15 LOW 06:19 LOW 06:23 LOW 06:27 LOW 06:31 LOW 06:35 LOW 06:39 LOW 06:43 LOW 06:47 LOW 06:51 LOW 06:55 LOW 06:59 LOW 07:03 LOW 07:07 LOW 07:11 LOW 07:15 LOW 07:19 LOW 07:23 LOW 07:27 LOW 07:31 LOW 07:35 LOW 07:39 LOW 07:43 LOW 07:47 LOW 07:51 LOW 07:55 LOW 07:59 LOW 08:03 LOW 08:07 LOW 08:11 LOW 08:15 LOW 08:19 LOW 08:23 LOW 08:27 LOW 08:31 LOW 08:35 LOW 08:39 LOW 08:43 LOW 08:47 LOW 08:51 LOW 08:55 LOW 08:59 LOW 09:03 LOW 09:07 LOW 09:11 LOW 09:15 LOW 09:19 LOW 09:23 LOW 09:27 LOW 09:31 LOW 09:35 LOW 09:39 LOW 09:43 LOW 09:47 LOW 09:51 LOW 09:55 LOW 09:59 LOW 10:03 LOW 10:07 LOW 10:11 LOW 10:15 LOW 10:19 LOW 10:23 LOW 10:27 LOW 10:31 LOW 10:35 LOW 10:39 LOW 10:43 LOW 10:47 LOW 10:51 LOW 10:55 LOW 10:59 LOW 11:03 LOW 11:07 LOW 11:11 LOW 11:15 LOW 11:19 LOW 11:23 LOW 11:27 LOW 11:31 LOW 11:35 LOW 11:39 LOW 11:43 LOW 11:47 LOW 11:51 LOW 11:55 LOW 11:59 LOW 12:03 LOW 12:07 LOW 12:11 LOW 12:15 LOW 12:19 LOW 12:23 LOW 12:27 LOW 12:31 LOW 12:35 LOW 12:39 LOW 12:43 LOW 12:47 LOW 12:51 LOW 12:55 LOW 12:59 LOW 13:03 LOW 13:07 LOW 13:11 LOW 13:15 LOW 13:19 LOW 13:23 LOW 13:27 LOW 13:31 LOW 13:35 LOW 13:39 LOW 13:43 LOW 13:47 LOW 13:51 LOW 13:55 LOW 13:59 LOW 14:03 LOW 14:07 LOW 14:11 LOW 14:15 LOW 14:19 LOW 14:23 LOW 14:27 LOW 14:31 LOW 14:35 LOW 14:39 LOW 14:43 LOW 14:47 LOW 14:51 LOW 14:55 LOW 14:59 LOW 15:03 LOW 15:07 LOW 15:11 LOW 15:15 LOW 15:19 LOW 15:23 LOW 15:27 LOW 15:31 LOW 15:35 LOW 15:39 LOW 15:43 LOW 15:47 LOW 15:51 LOW 15:55 LOW 15:59 LOW 16:03 LOW 16:07 LOW 16:11 LOW 16:15 LOW 16:19 LOW 16:23 LOW 16:27 LOW 16:31 LOW 16:35 LOW 16:39 LOW 16:43 LOW 16:47 LOW 16:51 LOW 16:55 LOW 16:59 LOW 17:03 LOW 17:07 LOW 17:11 LOW 17:15 LOW 17:19 LOW 17:23 LOW 17:27 LOW 17:31 LOW 17:35 LOW 17:39 LOW 17:43 LOW 17:47 LOW 17:51 LOW 17:55 LOW 17:59 LOW 18:03 LOW 18:07 LOW 18:11 LOW 18:15 LOW 18:19 LOW 18:23 LOW 18:27 LOW 18:31 LOW 18:35 LOW 18:39 LOW 18:43 LOW 18:47 LOW 18:51 LOW 18:55 LOW 18:59 LOW 19:03 LOW 19:07 LOW 19:11 LOW 19:15 LOW 19:19 LOW 19:23 LOW 19:27 LOW 19:31 LOW 19:35 LOW 19:39 LOW 19:43 LOW 19:47 LOW 19:51 LOW 19:55 LOW 19:59 LOW 20:03 LOW 20:07 LOW 20:11 LOW 20:15 LOW 20:19 LOW 20:23 LOW 20:27 LOW 20:31 LOW 20:35 LOW 2								

CABLEM STANDARDS - CONNECTED FOR DAYLIGHT SAVING TIME

JOURNAL OF DOCUMENTATION

Tide Tables/December 2003

Portland, ME

2003		PORTLAND TIDES		DECEMBER		PORTLAND TIDES		2003	
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY
1 8:11 8.9 12:14 1.2 6:50	2 8:15 9.1 11:46 0.6 6:54	3 8:22 9.3 12:19 1.1 6:55	4 8:29 9.5 12:47 1.8 6:56	5 8:36 9.7 1:18 2.5 6:57	6 8:43 9.9 1:49 3.2 6:58	7 8:50 10.1 2:20 4.0 6:59	8 8:57 10.3 2:51 4.7 7:00	9 9:04 10.5 3:22 5.4 7:01	10 9:11 10.7 3:53 6.1 7:02
14 8:58 9.6 12:47 1.3 6:58	15 9:05 10.8 1:00 2.1 7:00	16 9:12 10.9 1:31 2.8 7:01	17 9:19 11.0 2:02 3.5 7:02	18 9:26 11.1 2:33 4.2 7:03	19 9:33 11.2 3:04 4.9 7:04	20 9:40 11.3 3:35 5.6 7:05	21 9:47 11.4 4:06 6.3 7:06	22 9:54 11.5 4:37 7.0 7:07	23 10:01 11.6 5:08 7.7 7:08
28 9:58 11.8 5:08 1:8 7:18	29 10:05 11.9 5:39 2.5 7:19	30 10:12 12.0 6:10 3.2 7:20	31 10:19 12.1 6:41 3.9 7:21	1 10:26 12.2 7:12 4.6 7:22	2 10:33 12.3 7:43 5.3 7:23	3 10:40 12.4 8:14 6.0 7:24	4 10:47 12.5 8:45 6.7 7:25	5 10:54 12.6 9:16 7.4 7:26	6 11:01 12.7 9:47 8.1 7:27
11 9:01 8.9 12:14 1.2 6:50	12 9:08 9.1 11:46 0.6 6:54	13 9:15 9.3 12:19 1.1 6:55	14 9:22 9.5 12:47 1.8 6:56	15 9:29 9.7 1:18 2.5 6:57	16 9:36 9.9 1:49 3.2 6:58	17 9:43 10.1 2:20 4.0 6:59	18 9:50 10.3 2:51 4.7 7:00	19 9:57 10.5 3:22 5.4 7:01	20 10:04 10.7 3:53 6.1 7:02
25 9:58 11.8 5:08 1:8 7:18	26 10:05 11.9 5:39 2.5 7:19	27 10:12 12.0 6:10 3.2 7:20	28 10:19 12.1 6:41 3.9 7:21	29 10:26 12.2 7:12 4.6 7:22	30 10:33 12.3 7:43 5.3 7:23	31 10:40 12.4 8:14 6.0 7:24	1 10:47 12.5 8:45 6.7 7:25	2 10:54 12.6 9:16 7.4 7:26	3 11:01 12.7 9:47 8.1 7:27

FROM CEMENTING ELEMENTS AND ELEMENT

SCREEN STANDARD TIMES - CORRECTED FOR DAYLIGHT SAVINGS TIME

Tide Tables:

MAKE THESE TIME ADJUSTMENTS TO THE TIDE TABLES (hours and minutes)

Location	Water	
	High	Low
Fort Point (Fort Constitution)	+0:03	+0:07
Portsmouth	+0:22	+0:17
Piscataqua River		
Dover Point	+1:33	+1:27
Salmon Falls River	+1:35	+1:52
Squamscott River RR Bridge	+2:19	+2:41
Hampton Harbor	+0:14	+0:32

For more tide charts, visit: www.tidesonline.com

PUBLIC SERVICE ANNOUNCEMENT

Diver There, Please Beware



The United Divers of N.H. urge boaters to stay well away from a red flag with a white stripe or other flags in the water. They signal that scuba divers are in the area.

Sunrise and Sunset

Please note that the Sunrise and Sunset information listed is for Concord, New Hampshire, and will vary in different areas of the state. Check your local newspaper for correct time.

Shading indicates Daylight Saving Time in effect;
Add one hour to time given.

2003	JAN		FEB		MAR		APR	
Day	Rise AM	Set PM	Rise AM	Set PM	Rise AM	Set PM	Rise AM	Set PM
1	7:18	4:21	7:02	4:58	6:23	5:35	5:28	6:12
2	7:18	4:22	7:01	4:59	6:21	5:36	5:27	6:13
3	7:18	4:23	7:00	5:01	6:19	5:37	5:25	6:14
4	7:18	4:24	6:59	5:02	6:18	5:39	5:23	6:16
5	7:18	4:25	6:57	5:03	6:16	5:40	5:21	6:17
6	7:18	4:26	6:56	5:05	6:14	5:41	5:20	6:18
7	7:18	4:27	6:55	5:06	6:13	5:42	5:18	6:19
8	7:18	4:28	6:54	5:07	6:11	5:44	5:16	6:20
9	7:18	4:29	6:52	5:09	6:09	5:45	5:15	6:21
10	7:17	4:30	6:51	5:10	6:07	5:46	5:13	6:23
11	7:17	4:31	6:50	5:11	6:06	5:47	5:11	6:24
12	7:17	4:32	6:48	5:13	6:04	5:48	5:09	6:25
13	7:16	4:34	6:47	5:14	6:02	5:50	5:08	6:26
14	7:16	4:35	6:46	5:15	6:00	5:51	5:06	6:27
15	7:15	4:36	6:44	5:17	5:59	5:52	5:04	6:28
16	7:15	4:37	6:43	5:18	5:57	5:53	5:03	6:30
17	7:14	4:38	6:41	5:19	5:55	5:54	5:01	6:31
18	7:14	4:40	6:40	5:21	5:53	5:56	4:59	6:32
19	7:13	4:41	6:38	5:22	5:52	5:57	4:58	6:33
20	7:12	4:42	6:37	5:23	5:50	5:58	4:56	6:34
21	7:12	4:43	6:35	5:25	5:48	5:59	4:55	6:35
22	7:11	4:45	6:34	5:26	5:46	6:00	4:53	6:37
23	7:10	4:46	6:32	5:27	5:44	6:02	4:52	6:38
24	7:09	4:47	6:31	5:28	5:43	6:03	4:50	6:39
25	7:09	4:49	6:29	5:30	5:41	6:04	4:49	6:40
26	7:08	4:50	6:28	5:31	5:39	6:05	4:47	6:41
27	7:07	4:51	6:26	5:32	5:37	6:06	4:46	6:42
28	7:06	4:53	6:24	5:34	5:36	6:07	4:44	6:44
29	7:05	4:54			5:34	6:09	4:43	6:45
30	7:04	4:55			5:32	6:10	4:41	6:46
31	7:03	4:57			5:30	6:11		

Sunrise and Sunset

Please note that the Sunrise and Sunset information listed is for Concord, New Hampshire, and will vary in different areas of the state. Check your local newspaper for correct time.

Shading indicates Daylight Saving Time in effect;
Add one hour to time given.

2003	MAY		JUNE		JULY		AUG	
Day	Rise AM	Set PM	Rise AM	Set PM	Rise AM	Set PM	Rise AM	Set PM
1	4:40	6:47	4:09	7:19	4:10	7:30	4:36	7:08
2	4:38	6:48	4:08	7:20	4:10	7:29	4:37	7:07
3	4:37	6:49	4:08	7:20	4:11	7:29	4:38	7:06
4	4:36	6:51	4:08	7:21	4:11	7:29	4:39	7:04
5	4:34	6:52	4:07	7:22	4:12	7:29	4:40	7:03
6	4:33	6:53	4:07	7:23	4:13	7:28	4:41	7:02
7	4:32	6:54	4:07	7:23	4:13	7:28	4:42	7:00
8	4:31	6:55	4:06	7:24	4:14	7:28	4:43	6:59
9	4:29	6:56	4:06	7:24	4:15	7:27	4:44	6:58
10	4:28	6:57	4:06	7:25	4:15	7:27	4:46	6:56
11	4:27	6:58	4:06	7:26	4:16	7:26	4:47	6:55
12	4:26	6:59	4:06	7:26	4:17	7:26	4:48	6:53
13	4:25	7:01	4:05	7:27	4:18	7:25	4:49	6:52
14	4:24	7:02	4:05	7:27	4:19	7:24	4:50	6:51
15	4:22	7:03	4:05	7:27	4:19	7:24	4:51	6:49
16	4:21	7:04	4:05	7:28	4:20	7:23	4:52	6:48
17	4:20	7:05	4:05	7:28	4:21	7:22	4:53	6:46
18	4:19	7:06	4:06	7:29	4:22	7:22	4:54	6:45
19	4:18	7:07	4:06	7:29	4:23	7:21	4:55	6:43
20	4:18	7:08	4:06	7:29	4:24	7:20	4:57	6:41
21	4:17	7:09	4:06	7:29	4:25	7:19	4:58	6:40
22	4:16	7:10	4:06	7:30	4:26	7:18	4:59	6:38
23	4:15	7:11	4:06	7:30	4:27	7:17	5:00	6:37
24	4:14	7:12	4:07	7:30	4:28	7:17	5:01	6:35
25	4:13	7:13	4:07	7:30	4:29	7:16	5:02	6:33
26	4:13	7:14	4:07	7:30	4:30	7:15	5:03	6:32
27	4:12	7:15	4:08	7:30	4:31	7:14	5:04	6:30
28	4:11	7:16	4:08	7:30	4:32	7:12	5:05	6:28
29	4:11	7:16	4:09	7:30	4:33	7:11	5:06	6:27
30	4:10	7:17	4:09	7:30	4:34	7:10	5:08	6:25
31	4:10	7:18		4:35	7:09	5:09	6:23	

Sunrise and Sunset

Please note that the Sunrise and Sunset information listed is for Concord, New Hampshire, and will vary in different areas of the state. Check your local newspaper for correct time.

Shading indicates Daylight Saving Time in effect;
Add one hour to time given.

2003	SEPT		OCT		NOV		DEC	
Day	Rise Set		Rise Set		Rise Set		Rise Set	
	AM	PM	AM	PM	AM	PM	AM	PM
1	5:10	6:21	5:43	5:28	6:21	4:38	6:58	4:12
2	5:11	6:20	5:44	5:26	6:22	4:37	6:59	4:12
3	5:12	6:18	5:45	5:24	6:23	4:35	7:00	4:11
4	5:13	6:16	5:46	5:22	6:24	4:34	7:01	4:11
5	5:14	6:14	5:48	5:21	6:26	4:33	7:02	4:11
6	5:15	6:13	5:49	5:19	6:27	4:32	7:03	4:11
7	5:16	6:11	5:50	5:17	6:28	4:31	7:04	4:11
8	5:17	6:09	5:51	5:15	6:30	4:29	7:05	4:11
9	5:19	6:07	5:52	5:14	6:31	4:28	7:06	4:11
10	5:20	6:06	5:53	5:12	6:32	4:27	7:07	4:11
11	5:21	6:04	5:55	5:10	6:33	4:26	7:08	4:11
12	5:22	6:02	5:56	5:09	6:35	4:25	7:09	4:11
13	5:23	6:00	5:57	5:07	6:36	4:24	7:09	4:11
14	5:24	5:58	5:58	5:05	6:37	4:23	7:10	4:11
15	5:25	5:57	5:59	5:04	6:39	4:22	7:11	4:11
16	5:26	5:55	6:01	5:02	6:40	4:21	7:12	4:12
17	5:27	5:53	6:02	5:00	6:41	4:20	7:12	4:12
18	5:28	5:51	6:03	4:59	6:42	4:20	7:13	4:12
19	5:30	5:49	6:04	4:57	6:44	4:19	7:14	4:13
20	5:31	5:47	6:05	4:56	6:45	4:18	7:14	4:13
21	5:32	5:46	6:07	4:54	6:46	4:17	7:15	4:14
22	5:33	5:44	6:08	4:52	6:47	4:17	7:15	4:14
23	5:34	5:42	6:09	4:51	6:49	4:16	7:16	4:15
24	5:35	5:40	6:10	4:49	6:50	4:15	7:16	4:15
25	5:36	5:38	6:12	4:48	6:51	4:15	7:17	4:16
26	5:37	5:37	6:13	4:46	6:52	4:14	7:17	4:16
27	5:38	5:35	6:14	4:45	6:53	4:14	7:17	4:17
28	5:40	5:33	6:15	4:44	6:55	4:13	7:17	4:18
29	5:41	5:31	6:17	4:42	6:56	4:13	7:18	4:19
30	5:42	5:29	6:18	4:41	6:57	4:12	7:18	4:19
31			6:19	4:39			7:18	4:20

Great Bay National Estuarine Research Reserve

In October 1989, Great Bay was designated as a National Estuarine Research Reserve. Authorized by the National Oceanic and Atmospheric Administration (NOAA), there are 25 research reserves nationwide. This program sets aside estuarine areas and their watersheds to improve our understanding of estuaries through proper management, research and education.

Through federal and state cooperation, the N.H. Fish and Game Department manages the Great Bay site. Approximately 4,500 acres of Great Bay tidal waters and over 2,000 acres of salt marsh and uplands are included within the Reserve.

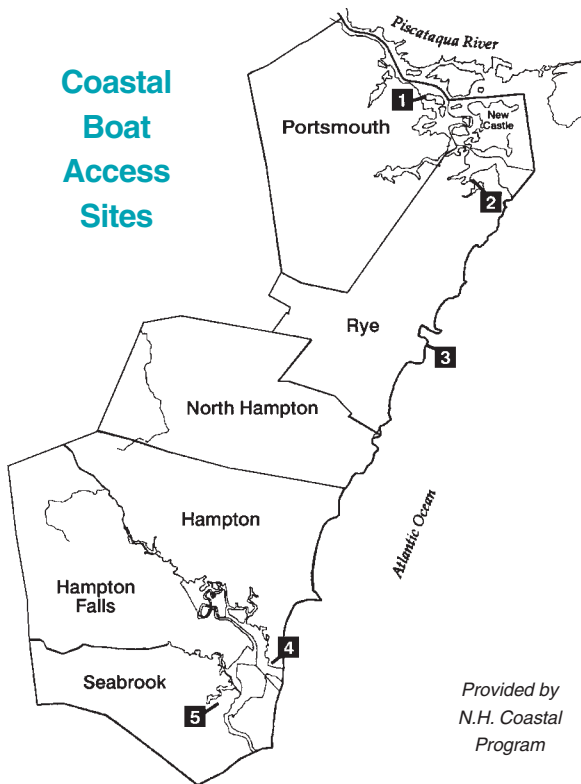
Educational efforts of the Reserve are focused at Great Bay Discovery Center, on the Stratham-Greenland town line at the end of Depot Road off Route 33 (formerly Route 101). The 50-acre site includes a 1,700-foot boardwalk through uplands, freshwater wetlands and a salt marsh, a high-tide-only boat launch, and an interpretive center (open May–October) featuring exhibits on the cultural and natural history of Great Bay. Call the Discovery Center for further information (603) 778-0015.

For additional information about activities and programs sponsored by the Reserve, please contact:

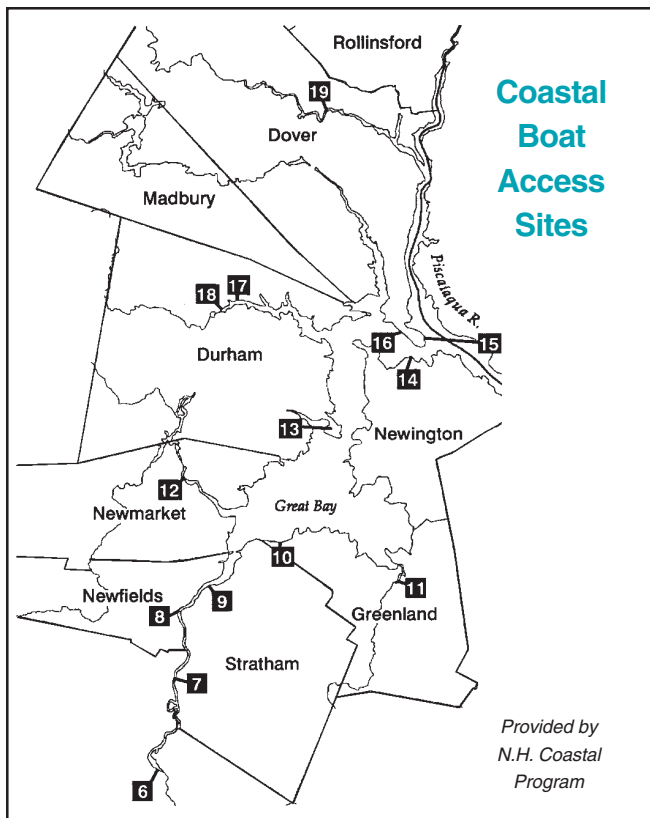


Reserve Manager
N.H. Fish and Game Department
225 Main Street, Durham, NH 03824
(603) 868-1095
www.greatbay.org

Coastal Boat Access Sites



*Provided by
N.H. Coastal
Program*



Suggested Boat Access Sites in the Coastal Zone**

SITE	#	COMMENTS
Pierce Island*, Portsmouth	1	accessible at all tides ample parking
Odiorne State Park*, Rye	2	not accessible at low tide ample parking
Rye Harbor State Marina*, Rye	3	accessible at all tides ample parking
Hampton Harbor State Marina*, Hampton	4	accessible at all tides ample parking
Farm Lane Dock, Seabrook	5	not accessible at all tides limited parking
Exeter Town Landing, Exeter	6	accessible at all tides limited parking
Stratham Town Landing, Stratham	7	not accessible at all tides limited parking carry-in only
Newfields Town Landing, Newfields	8	accessible at all tides limited parking
Chapman's Landing, Stratham	9	accessible at all tides limited parking
Depot Road Boat Launch, Greenland	10	not accessible at all tides limited parking carry-in only

***Provided by NH Coastal Program*

** fee charged seasonally*

SITE	#	COMMENTS
Greenland Town Landing, Greenland	11	not accessible very limited parking 4-wheel drive access only remote/carry-in
Newmarket Town Landing, Newmarket	12	accessible at all tides limited parking
Adams Point Boat Launch, Durham	13	not accessible at all tides limited parking
Great Bay Marina, Newington	14	not accessible at all tides ample parking private docks
Hilton State Park, Dover	15	not accessible at all tides ample parking
Little Bay Marina*, Dover	16	not accessible at all tides limited parking
Jackson's Landing, Durham	17	accessible at all tides ample parking
Durham Town Landing, Durham	18	accessible at all tides ample parking carry-in only
George's Marina*, Dover	19	accessible at all tides street parking

* fee charged seasonally

**SHARE YOUR LOVE OF FISHING WITH OTHERS—
Become a “Let's Go Fishing” Instructor!**

Volunteer instructors needed. For more information on the
“Let's Go Fishing” program, call (603) 271-3211.



**Aquatic Resources Education
N.H. Fish and Game Department**



**1-800-344-4262
REPORT THESE FACTS:**

Date	Time
Vehicle Description	Violation
License Number	Travel Direction
Road/Route	Description of Person(s)

Operation Game Thief, Inc. is made possible through the generosity of:

Gun Owners of New Hampshire	Kittery Trading Post
Loon Preservation Committee	Seacoast Seafood Dealers
N.H. Fish and Game Commission	Winni Derby
Sturm, Ruger & Co., Inc.	Thompson/Center Arms Co.
N.E. Safari Club International	Meredith Rotary Club
N.H. Waterfowl Association	N.H. Turkey Federation
N.H. Commercial Fishermens Association	
Strafford County League of Sportsmen	
Office of the Sheriff, Merrimack County	
N.H. Wildlife Federation	

Coastal Conservation Association of New Hampshire



*"Dedicated to the
Conservation of Marine,
Animal, Plant Life and
Other Coastal Resources"*

If you are concerned about our coastal and marine resources, we would welcome your membership and support of our organization. We are one of 15 state chapters between Texas and Maine with more than 78,000 members.

Contact us at 603-731-2669 or
PO Box 4084, Concord, NH 03302-4084 or
visit our web site at **www.ccanh.org** or
our national web site at **www.joincca.org**.

"Protecting Your Freedom to Fish"

Important Telephone Numbers

Aquaculture – contact Fish and Game Department (603) 868-1095 for rules and statutes.

Clam Flats Hotline – current open or closed condition of Hampton Harbor and other clam flats 1-800-43-CLAMS.

National Marine Fisheries Service (NMFS) – for information on federal regulations and federal permits– Regulations: 978-281-9315; Permits – 978-281-9370.

Marine Mammals, Seals, Porpoises, Whales – federal regulations prohibit harassment of marine mammals. Stranded mammals should be reported to the New England Aquarium (617) 973-5200 (weekdays 9 a.m.-5 p.m.) or (617) 975-5259 (weekends and evenings).

Portsmouth Harbor Coast Guard – for U.S. Coast Guard information (603) 436-4415.

New Hampshire Department of Environmental Services (shellfish branch) – (603) 430-7900.

New Hampshire Dept. of Safety – boating regulations (603) 293-0091.

Fish and Game Dept., Law Enforcement Division – 2 Hazen Drive, Concord, NH 03301 - (603) 271-3127.

Maine Marine Patrol – (207) 624-6550.

Massachusetts Marine Fisheries – (617) 626-1520.

Fish and Game Dept. Headquarters, Concord – (603) 271-3361 (weekdays 8 a.m.-12 noon, 1-4:30 p.m.).

Fish and Game Dept. Marine Fisheries Division, Durham – (603) 868-1095 (weekdays 8 a.m. - 4 p.m.)

Operation Game Thief – 1-800-344-4262.

New Hampshire Fish & Game Department Telephone Numbers (603)

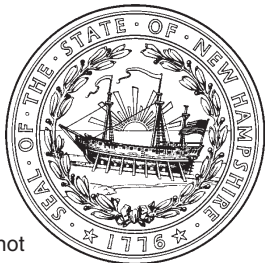
Executive Director's Office	271-3511
License Information	271-3421 or 271-3422
License Agent Accounting	271-2743
Access and Engineering	271-2224 or 271-2225
Wildlife Programs	271-2461 or 271-2462
Wildlife Services (Animal Damage Control)	223-6832
Inland Fisheries	271-2501 or 271-2502
Marine Fisheries	868-1095
Public Affairs	271-3211
Law Enforcement	271-3127 or 271-3128
Dispatch (Mon.–Fri., 8 a.m.–4:30 p.m.)	271-3361
Off Highway Recreational Vehicles	271-3129

REGIONAL OFFICES

Region 1, Lancaster	788-3164
Region 2, New Hampton	744-5470
Region 3, Durham	868-1095
Region 4, Keene	352-9669

TIDAL REGION MOORING REGULATIONS

The **Port of New Hampshire Division of Ports and Harbors** regulates approximately 1,200 moorings in the state's tidal region. It is the only agency that can assign moorings in this region.



The holder of the mooring permit is the only person allowed to use the mooring. He or she cannot assign the mooring to another person. The holder's last name and permit number must be on the mooring ball, in a minimum height of 2 inches.

Moorings are issued by the Division of Ports and Harbors to people on a waiting list. A person must apply and pay a \$5 annual fee to be on the list. To obtain a waiting list application, write: Division of Ports and Harbors, P.O. Box 369, Portsmouth, N.H. 03802-0369; or call (603) 436-8500.

Here is a list of Harbormasters. They can be contacted through the Division of Ports and Harbors by calling the above number.

Exeter – Bud Field

Newfields – Bud Field

Great Bay & Little Bay Area – Bert Condon

Portsmouth – vacant

Rye & Isles of Shoals – Leo Axtin

Hampton – Don Barnard

Seabrook – Jerry Rowe

Sport Fish and Wildlife Restoration:

53 Years of Restoring, Managing and Researching Fish and Wildlife

With their purchases of hunting and fishing equipment, hunters and anglers pay excise taxes that are distributed to state fish and wildlife agencies. In combination with license revenue, funds from this program allow states to restore, manage and research fish and wildlife, creating opportunities for hunting, fishing, boating and enjoying wildlife.

The U.S. Fish and Wildlife Service joins state fish and wildlife agencies, private industry and the public in a partnership to conserve fish and wildlife resources.

With help from federal aid funding over the last half century, the New Hampshire Fish and Game Department has been able to:

- **Gain Knowledge Through Research**
- **Manage Fish and Wildlife Populations**
- **Acquire Wildlife Management Areas**
- **Improve and Protect Aquatic Habitat**
- **Obtain Modern Computer Systems**
- **Restore Fish and Wildlife Populations**
- **Conduct Hunter and Aquatic Education Programs**
- **Construct, Upgrade and Maintain more than 100 public access sites for boating and fishing.**



Your purchase of hunting and fishing equipment and motorboat fuels supports wildlife and sport fish restoration and boating access facilities.



Since 1933, the New Hampshire Wildlife Federation has been working hard to keep New Hampshire's fishing at its best. We are a non-profit conservation organization, 7,000 members strong, protecting the hunting, fishing and trapping heritage and conserving fish and wildlife habitat for you.

Membership is just \$20 per year, and includes a subscription to *New Hampshire Wildlife*.

Apply to: NHWF
54 Portsmouth Street
Concord, NH 03301

Contact us: Phone: (603) 224-5953
Email: nhwf@aol.com

Check us out on the web at www.nhwf.org

Enjoy the Great Outdoors...

For a Lifetime

If you expect to enjoy hunting and fishing for many years to come, consider a New Hampshire lifetime license.

- **Lifetime Fishing, Lifetime Hunting or Lifetime Combination Licenses available.**
- **You'll save money. The younger you are when you buy a lifetime license, the more you'll save.**
- **You'll never have to buy another N.H. hunting or fishing license, even if you move out of state.**
- **Makes a long-lasting, memorable gift. Gift certificates are available.**

For a fee schedule, or more information, visit www.wildlife.state.nh.us, or call the New Hampshire Fish and Game Department, 603-271-3422.

Restrictions: A lifetime license is sold to New Hampshire residents only. The license is not transferrable and doesn't include licenses for muzzleloader, archery, pheasant, waterfowl stamp, wild turkey permit or Atlantic salmon permit.



Are You a Super Sport?

HERE'S YOUR CHANCE!

For each dollar donated to New Hampshire's **Super Sport Fund**, up to \$3 is matched in federal funds. Your \$8 donation is used for special fish and wildlife management projects in New Hampshire.

Other benefits include an attractive collectible button featuring a game animal or fish and a 10 percent discount on merchandise, such as T-shirts, hats, mugs and books, bought at Fish and Game Department headquarters in Concord.

HAMPTON HARBOR TACKLE



Complete Line of Saltwater Bait & Tackle

State Pier, Hampton Beach, NH

Open: April–September

Daily: June–July–August 6a.m.–6p.m.

- Fishing Tackle
- Surf Clams
- Shrimp
- Herring
- State Boat Launch
- Mackerel
- Sea Worms
- Diesel
- Gasoline

Call for more information & weather

603-926-1945

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HUNDREDS OF RODS & REELS TO CHOOSE FROM!



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