

WESTERN BIRDS



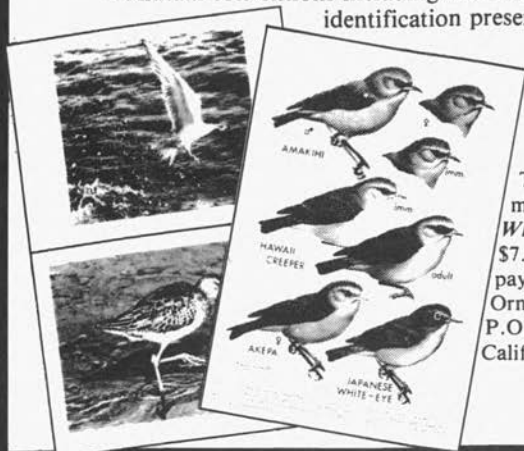
A quarterly journal of field ornithology for active birders and professional ornithologists

Why has **WESTERN BIRDS** become a must for serious field ornithologists?

- **Bird identification articles** written by experts and rigorously reviewed by editorial board
- **Generously illustrated** by leading amateur and professional artists and photographers
- Articles and photographs documenting **rarities** and **range extensions**
- **Studies** of bird distribution, abundance, behavior, migration and ecology

WESTERN BIRDS also announces:

- WFO sponsored **pelagic trips**
- Annual conventions including field trips and bird identification presentations



To become a WFO member and receive **WESTERN BIRDS** send \$7.50 annual dues payable to Western Field Ornithologists Inc., P.O. Box 595, Coronado, California 92118.

TIDE CHART

Tide Table for Boston Harbor.
Add one hour for Daylight Savings Time.

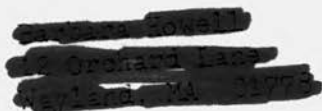
1980 JULY - AUG.			1980			1980 AUG. - SEPT.			1980		
Morning	BOSTON	Afternoon	Morning	BOSTON	Afternoon	Morning	BOSTON	Afternoon	Morning	BOSTON	Afternoon
High 10.41 Low 9.5 Height 0.91 Sunrise 4:31	SUNDAY 27	High 10.56 Low 11.0 Height -0.44 Sunset 7:09	High 4.06 Low 10.0 Height -5.94 Sunset 4:37	SUNDAY 3	High 4.38 Low 10.56 Height -6.18 Sunset 7:03	High 9.24 Low 9.4 Height -0.16 Sunrise 5:01	SUNDAY 24	High 10.33 Low 10.33 Height 0 Sunrise 5:01	High 9.43 Low 9.30 Height 0.13 Sunset 6:32	High 2.51 Low 9.00 Height -6.49 Sunset 5:11	SUNDAY 31
High 9.9 Low 9.17 Height 0.73 Sunrise 4:31	MONDAY 28	High 11.42 Low 11.2 Height 0.22 Sunset 7:09	High 5.27 Low 11.16 Height -5.89 Sunset 4:38	MONDAY 4	High 5.26 Low 11.59 Height -6.33 Sunset 7:02	High 10.15 Low 10.4 Height -0.25 Sunrise 5:01	MONDAY 25	High 10.33 Low 11.2 Height -0.87 Sunset 6:30	High 10.33 Low 11.2 Height -0.87 Sunset 6:30	High 3.49 Low 9.95 Height -6.46 Sunset 5:11	MONDAY 1
High 6.04 Low 15.1 Height -9.06 Sunrise 4:32	TUESDAY 29	High 12.17 Low 10.2 Height 1.97 Sunset 7:09	High 6.11 Low 9.2 Height -3.09 Sunset 4:38	TUESDAY 5	High 6.38 Low 10.3 Height -3.92 Sunset 7:01	High 11.02 Low 10.5 Height 0.52 Sunrise 5:01	TUESDAY 26	High 11.22 Low 10.9 Height 0.32 Sunset 6:30	High 11.55 Low 10.6 Height 0.95 Sunset 6:29	High 5.40 Low 10.3 Height -4.9 Sunset 5:11	TUESDAY 2
High 12.32 Low 11.3 Height 1.0 Sunrise 4:36	WEDNESDAY 30	High 13.04 Low 10.5 Height 2.54 Sunset 7:07	High 7.15 Low 9.0 Height -1.85 Sunset 4:40	WEDNESDAY 6	High 7.28 Low 10.3 Height -3.02 Sunset 7:00	High 11.51 Low 10.9 Height 0.62 Sunrise 5:02	WEDNESDAY 27	High 11.22 Low 10.9 Height 0.32 Sunset 6:30	High 11.55 Low 10.6 Height 0.95 Sunset 6:29	High 5.50 Low 11.87 Height -6.37 Sunset 5:12	WEDNESDAY 3
High 1.22 Low 7.18 Height -5.96 Sunrise 4:34	THURSDAY 31	High 1.95 Low 8.01 Height -6.06 Sunset 7:07	High 8.17 Low 2.03 Height 6.14 Sunset 4:42	THURSDAY 7	High 8.36 Low 2.18 Height 6.18 Sunset 4:40	High 12.11 Low 6.28 Height 5.83 Sunrise 5:02	THURSDAY 28	High 12.48 Low 11.2 Height 1.28 Sunset 6:30	High 12.48 Low 11.2 Height 1.28 Sunset 6:30	High 7.01 Low 11.87 Height -4.86 Sunset 5:13	THURSDAY 4
High 2.15 Low 10.3 Height -8.15 Sunrise 4:36	FRIDAY 1	High 2.48 Low 10.7 Height -8.22 Sunset 7:05	High 9.14 Low 3.1 Height 6.04 Sunset 4:42	FRIDAY 8	High 9.30 Low 3.13 Height 6.17 Sunset 4:40	High 1.03 Low 11.4 Height -10.37 Sunrise 5:02	FRIDAY 29	High 1.30 Low 11.4 Height -10.1 Sunset 6:30	High 1.30 Low 11.4 Height -10.1 Sunset 6:30	High 8.05 Low 11.87 Height -3.82 Sunset 5:12	FRIDAY 5
High 3.68 Low 9.22 Height -5.54 Sunrise 4:37	SATURDAY 2	High 3.25 Low 9.56 Height -6.31 Sunset 7:04	High 10.26 Low 3.50 Height 6.76 Sunset 4:45	SATURDAY 9	High 10.5 Low 4.01 Height 6.49 Sunset 4:44	High 11.03 Low 8.07 Height 2.96 Sunrise 5:01	SATURDAY 30	High 11.22 Low 8.36 Height 2.86 Sunset 6:30	High 11.22 Low 8.36 Height 2.86 Sunset 6:30	High 8.14 Low 12.43 Height -4.29 Sunset 5:13	SATURDAY 6
1980 AUGUST			1980			1980 SEPTEMBER			1980		
Morning	BOSTON	Afternoon	Morning	BOSTON	Afternoon	Morning	BOSTON	Afternoon	Morning	BOSTON	Afternoon
High 10.52 Low 4.27 Height 6.25 Sunrise 4:47	SUNDAY 10	High 11.04 Low 4.46 Height 6.58 Sunset 6:51	High 3.18 Low 8.8 Height -5.62 Sunset 4:52	SUNDAY 17	High 3.42 Low 9.0 Height -5.58 Sunset 6:43	High 9.48 Low 3.38 Height 6.1 Sunrise 5:15	SUNDAY 7	High 10.01 Low 3.13 Height 6.88 Sunset 6:07	High 1.59 Low 8.06 Height -6.47 Sunset 5:24	High 9.1 Low 9.5 Height -0.4 Sunset 5:24	SUNDAY 14
High 11.25 Low 8.4 Height 2.85 Sunrise 4:47	MONDAY 11	High 11.46 Low 5.31 Height 6.15 Sunset 6:50	High 4.06 Low 10.14 Height -6.08 Sunset 4:53	MONDAY 18	High 4.29 Low 10.49 Height -6.2 Sunset 6:41	High 10.30 Low 4.15 Height 6.15 Sunrise 5:16	MONDAY 8	High 10.44 Low 4.28 Height 6.16 Sunset 6:03	High 8.8 Low 2.43 Height 6.37 Sunset 5:20	High 8.8 Low 2.43 Height 6.37 Sunset 5:20	MONDAY 15
High 10.8 Low 8.00 Height 2.8 Sunrise 4:47	TUESDAY 12	High 12.13 Low 6.13 Height 6.0 Sunset 6:50	High 4.86 Low 11.04 Height -6.18 Sunset 4:55	TUESDAY 19	High 5.19 Low 11.2 Height -6.01 Sunset 6:40	High 11.07 Low 4.84 Height 6.23 Sunrise 5:18	TUESDAY 9	High 11.25 Low 4.0 Height 7.25 Sunset 6:01	High 3.29 Low 9.5 Height -6.21 Sunset 5:27	High 3.29 Low 9.5 Height -6.21 Sunset 5:27	TUESDAY 16
High 12.27 Low 8.40 Height 3.87 Sunrise 4:48	WEDNESDAY 13	High 12.53 Low 6.58 Height 5.95 Sunset 6:49	High 5.50 Low 11.57 Height -6.07 Sunset 4:56	WEDNESDAY 20	High 6.32 Low 11.57 Height -5.25 Sunset 6:38	High 11.81 Low 5.53 Height 6.3 Sunrise 5:19	WEDNESDAY 10	High 11.81 Low 5.48 Height 6.33 Sunset 6:01	High 4.18 Low 10.26 Height -6.08 Sunset 5:28	High 4.18 Low 10.26 Height -6.08 Sunset 5:28	WEDNESDAY 17
High 1.08 Low 7.19 Height -6.11 Sunrise 4:48	THURSDAY 14	High 1.34 Low 7.37 Height -6.03 Sunset 6:49	High 6.45 Low 12.28 Height -5.83 Sunset 4:57	THURSDAY 21	High 7.06 Low 12.52 Height -5.46 Sunset 6:37	High 12.02 Low 6.18 Height -5.86 Sunrise 5:23	THURSDAY 11	High 12.21 Low 6.28 Height -5.99 Sunset 6:01	High 5.14 Low 11.5 Height -6.35 Sunset 5:28	High 5.14 Low 11.5 Height -6.35 Sunset 5:28	THURSDAY 18
High 1.99 Low 9.0 Height -7.01 Sunrise 4:50	FRIDAY 15	High 2.14 Low 8.20 Height -6.06 Sunset 6:46	High 7.42 Low 1.33 Height 6.09 Sunset 4:58	FRIDAY 22	High 8.00 Low 1.47 Height 6.53 Sunset 6:35	High 12.36 Low 6.47 Height 5.89 Sunrise 5:22	FRIDAY 12	High 12.58 Low 6.56 Height -6.02 Sunset 6:01	High 6.13 Low 12.01 Height -5.88 Sunset 5:29	High 6.13 Low 12.01 Height -5.88 Sunset 5:29	FRIDAY 19
High 2.32 Low 8.41 Height -6.09 Sunrise 4:51	SATURDAY 16	High 2.56 Low 9.05 Height -6.49 Sunset 6:44	High 8.34 Low 2.24 Height 6.1 Sunset 4:59	SATURDAY 23	High 8.52 Low 2.39 Height 6.13 Sunset 6:34	High 1.19 Low 7.25 Height -6.06 Sunrise 5:23	SATURDAY 13	High 1.37 Low 7.48 Height -6.11 Sunset 5:24	High 7.09 Low 12.59 Height -5.5 Sunset 5:30	High 7.09 Low 12.59 Height -5.5 Sunset 5:30	SATURDAY 20

Tidal differences from Boston High Tide

Newburyport	31 minutes later
Scituate	5 minutes earlier
Plymouth	5 minutes later
Chatham (outside)	30 minutes later
(inside)	1 hr, 54 minutes later
New Bedford	3 hrs, 15 minutes earlier

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