

21 – 27 October 2019 DUCK MIGRATION FORECAST

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OVERVIEW: The general pattern predicted across North America for the next week is for a blocking high pressure system, partially created by early Siberian snow cover, that will cause troughing of cold air and create normal to slightly below normal temperatures for western North America and ridging eastward with normal to above normal temperatures for eastern North America (**Fig. 1**). There is good indication that this pattern will remain through much of October but may switch in early November to colder temperatures in the Mississippi and Atlantic Flyways. For the coming week, generally mild temperatures prevail with no indication of snow possible (excluding extreme northern Canada locations).

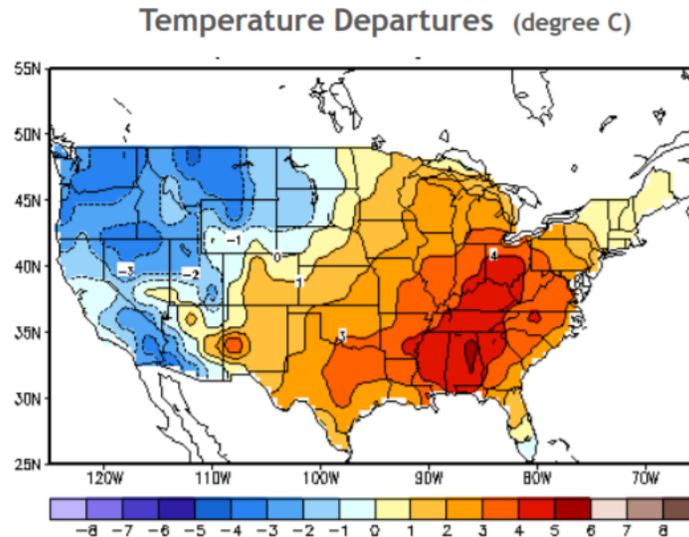


Figure 1. Colder temperatures (blue) in the west relative to the warmer (yellow and light green) east *over the past 30 days* due to blocking caused by a high-pressure system centered over the North Pacific propagating from Siberia.

SPECIES PREDICTIONS: We report WSI values and color code each day by species and location as **little to no migration (YELLOW)**, **increasing abundance (RED)**, and **decreasing abundance (BLUE)**. WSI models and thresholds differ among species, so the values by location will differ among some species. Little to no mallard migration is expected this week. Weather was not severe enough for our WSI to predict movement of mallards out of North Dakota last week and those conditions moderated with melting snow cover providing abundant habitat for ducks that remained. Early migrants like green-winged teal, wigeon, shoveler, and gadwall are predicted to continue to make small movements south, but no major migration of these ducks is predicted for the coming week. The overall forecast is for stale ducks in the coming week relative to last week in the Mississippi and Atlantic Flyways.

MALLARD AND BLACK DUCK (WSI threshold = 5)

Month	Day	Manitoba Churchill	North Dakota Devils Lake	Michigan Green Bay	Iowa Des Moines	Ohio Columbus	Tennessee Memphis	Ontario Ottawa	New York Syracuse	DC Washington	North Carolina Charlotte
10	18	-3	-6	-11	-14	-12	-14	-6	-6	-13	-12
10	19	-3	-7	-11	-12	-10	-16	-4	-8	-12	-11
10	20	-3	-5	-12	-11	-10	-19	-7	-9	-13	-18
10	21	0	-2	-11	-8	-11	-15	-11	-14	-16	-16
10	22	1	-1	-6	-7	-11	-12	-10	-11	-14	-15
10	23	3	0	-5	-9	-11	-14	-8	-9	-12	-12
10	24	3	-2	-4	-3	-11	-15	-6	-10	-13	-13
10	25	2	-8	-5	-7	-12	-11	-5	-7	-13	-14
10	26	0	-6	-8	-11	-11	-14	-4	-6	-11	-14
10	27	3	-1	-7	-7	-12	-9	-6	-9	-13	-15

PINTAIL (WSI threshold = -4)

Month	Day	Manitoba Churchill	North Dakota Deville Lake	Michigan Green Bay	Iowa Des Moines	Ohio Columbus	Tennessee Memphis	Ontario Ottawa	New York Syracuse	DC Washington	North Carolina Charlotte
10	18	-3	2	-12	-15	-9	-15	-7	-7	-14	-13
10	19	-3	-7	-11	-13	-9	-17	-4	-8	-13	-11
10	20	-3	-5	-13	-12	-9	-21	-8	-10	-14	-19
10	21	1	-3	-11	-9	-17	-16	-11	-15	-18	-18
10	22	2	-1	-6	-8	-11	-13	-11	-12	-15	-16
10	23	7	1	-6	-9	-13	-15	-8	-9	-13	-13
10	24	9	-2	-4	-4	-14	-16	-6	-11	-14	-14
10	25	8	-8	-5	-8	-11	-12	-5	-8	-14	-15
10	26	4	-6	-9	-12	-8	-15	-4	-6	-11	-15
10	27	9	-1	-7	-8	-11	-10	-7	-10	-14	-16

GADWALL (WSI threshold = -7)

Month	Day	Manitoba Churchill	North Dakota Deville Lake	Michigan Green Bay	Iowa Des Moines	Ohio Columbus	Tennessee Memphis	Ontario Ottawa	New York Syracuse	DC Washington	North Carolina Charlotte
10	18	-3	9	-7	-9	-12	-15	-9	-10	-16	-18
10	19	-3	-3	-7	-10	-10	-15	-8	-10	-15	-17
10	20	-3	-3	-8	-11	-10	-16	-8	-10	-15	-17
10	21	-1	-4	-9	-11	-11	-16	-8	-10	-15	-17
10	22	0	-4	-9	-10	-11	-15	-9	-10	-15	-16
10	23	4	-3	-9	-11	-11	-15	-8	-10	-14	-15
10	24	6	-4	-9	-10	-11	-16	-8	-10	-14	-14
10	25	8	-4	-9	-10	-12	-15	-8	-10	-14	-15
10	26	5	-4	-8	-9	-11	-15	-7	-10	-14	-15
10	27	8	-3	-8	-9	-12	-15	-8	-10	-14	-16

SHOVELER (WSI threshold = -9)

Month	Day	Manitoba Churchill	North Dakota Deville Lake	Michigan Green Bay	Iowa Des Moines	Ohio Columbus	Tennessee Memphis	Ontario Ottawa	New York Syracuse	DC Washington	North Carolina Charlotte
10	18	-3	9	-7	-9	-12	-15	-9	-10	-16	-18
10	19	-3	-3	-7	-10	-10	-15	-8	-10	-15	-17
10	20	-3	-3	-8	-11	-10	-16	-8	-10	-15	-17
10	21	-1	-4	-9	-11	-11	-16	-8	-10	-15	-17
10	22	0	-4	-9	-10	-11	-15	-9	-10	-15	-16
10	23	4	-3	-9	-11	-11	-15	-8	-10	-14	-15
10	24	6	-4	-9	-10	-11	-16	-8	-10	-14	-14
10	25	8	-4	-9	-10	-12	-15	-8	-10	-14	-15
10	26	5	-4	-8	-9	-11	-15	-7	-10	-14	-15
10	27	8	-3	-8	-9	-12	-15	-8	-10	-14	-16

WIGEON and GREEN-WINGED TEAL (WSI threshold = -10)

Month	Day	Manitoba Churchill	North Dakota Deville Lake	Michigan Green Bay	Iowa Des Moines	Ohio Columbus	Tennessee Memphis	Ontario Ottawa	New York Syracuse	DC Washington	North Carolina Charlotte
10	18	-3	9	-7	-9	-12	-15	-9	-10	-16	-18
10	19	-3	-3	-7	-10	-10	-15	-8	-10	-15	-17
10	20	-3	-3	-8	-11	-10	-16	-8	-10	-15	-17
10	21	-1	-4	-9	-11	-11	-16	-8	-10	-15	-17
10	22	0	-4	-9	-10	-11	-15	-9	-10	-15	-16
10	23	4	-3	-9	-11	-11	-15	-8	-10	-14	-15
10	24	6	-4	-9	-10	-11	-16	-8	-10	-14	-14
10	25	8	-4	-9	-10	-12	-15	-8	-10	-14	-15
10	26	5	-4	-8	-9	-11	-15	-7	-10	-14	-15
10	27	8	-3	-8	-9	-12	-15	-8	-10	-14	-16