

15 – 21 October 2018 DUCK MIGRATION FORECAST

Michael L. Schummer, Roosevelt Waterfowl Ecologist, SUNY College of Environmental Science and Forestry, 1 Forestry Drive, Syracuse, NY 13210

OVERVIEW: Snow and cold have been the norm in the US and Canadian prairies over the last week with some ice starting to form. As such, the WSI predicts that early migrating dabbling ducks such as gadwall, wigeon, green-winged teal and shoveler made substantial movements in mid-latitudes of the Mississippi Flyway last week. The Atlantic Flyway was at near record warm early last week but a cold front starting on Friday 12 October greatly decreased temperatures and increased WSI values. Temperatures will moderate in the Mississippi Flyway in the coming week, whereas they will remain cool/seasonal in the Atlantic Flyway.

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. Thresholds are points when ducks are predicted to decrease in abundance from one day to the next, it does not indicate they no longer occur at a location. The greater the WSI beyond the threshold the greater decrease in abundance from one day to the next and greater likelihood of their arrival at points farther south.

THIS WEEK: The WSI predicts that mallard abundance should continue at peak levels in the US prairies this week as temperatures moderate and snow and ice melt. Early migrating dabbling ducks including gadwall, wigeon, green-winged teal and shoveler are predicted to be at or near peak in the mid-west at mid-latitudes, whereas pintail numbers are building, but some remain at northern latitudes. In the Atlantic Flyway, the WSI predicts that mallards and black ducks will trickle out of Quebec and Ontario into NY and locales farther south during the coming week, but don't expect any large movements of these ducks. In contrast, the WSI predicts that all other dabbling ducks are at or near peak abundance around the latitude of NY and that by later in the week may start to make small movements even farther south. Thus, the October 2018 WSI is consistent with normal patterns, as these early migrating dabbling ducks typically peak around mid-October to the early-November at the latitude of NY. Thus, areas farther south of NY in the Atlantic Flyway should expect to see small movements of early migrating dabbling ducks in the coming week, but no substantial migration is predicted by our WSI for mid- and south Atlantic latitudes.

MALLARD AND BLACK DUCK (WSI threshold = 5)

Month	Day	Manitoba	North Dakota	Michigan	Iowa	Ohio	Tennessee	Ontario	New York	DC	North Carolina
		Churchill	Devils Lake	Green Bay	Des Moines	Columbus	Memphis	Ottawa	Syracuse	Washington	Charlotte
10	1	-2	-6	-10	-12	-21	-24	-10	-12	-21	-21
10	2	-1	-11	-11	-13	-23	-25	-9	-15	-23	-21
10	3	2	-4	-19	-21	-23	-26	-11	-13	-24	-23
10	4	4	-1	-13	-8	-19	-26	-15	-15	-24	-24
10	5	3	0	-8	-12	-16	-25	-6	-9	-20	-25
10	6	2	-2	-11	-10	-24	-25	-7	-16	-20	-24
10	7	3	1	-9	-10	-24	-26	-2	-15	-23	-24
10	8	3	-1	-16	-17	-24	-25	-1	-16	-23	-23
10	9	4	-1	-17	-18	-24	-24	-4	-24	-23	-21
10	10	5	3	-15	-12	-22	-21	-2	-22	-24	-21
10	11	4	4	-7	-5	-14	-15	-5	-17	-23	-20
10	12	6	1	-1	-4	-9	-13	0	-10	-16	-16
10	13	5	2	-8	-8	-8	-16	-1	-6	-10	-15
10	14	6	3	-3	-2	-13	-17	-3	-10	-14	-17
10	15	6	-4	-3	-4	-8	-11	1	-9	-16	-21
10	16	9	-2	-5	-6	-8	-9	1	-7	-11	-19
10	17	11	-6	-3	-6	-6	-11	6	-4	-11	-14
10	18	6	-9	-8	-11	-8	-12	2	-3	-9	-13
10	19	9	-5	-9	-9	-10	-13	-2	-9	-13	-14
10	20	10	-6	-5	-7	-8	-12	1	-7	-11	-14
10	21	10	-5	-6	-8	-8	-12	1	-5	-10	-13

PINTAIL (WSI threshold = -4)

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	1	-2	-5	-11	-13	-23	-26	-10	-13	-23	-23
10	2	0	-11	-12	-14	-24	-27	-9	-16	-24	-23
10	3	4	-5	-20	-23	-24	-28	-11	-14	-25	-24
10	4	7	3	-14	-9	-21	-28	-16	-16	-26	-26
10	5	6	6	-9	-13	-17	-27	-7	-10	-22	-26
10	6	6	5	-11	-11	-26	-27	-8	-18	-21	-25
10	7	8	9	-9	-11	-26	-28	-2	-16	-24	-26
10	8	9	7	-17	-18	-26	-27	-1	-18	-25	-25
10	9	11	6	-18	-19	-26	-26	-4	-25	-25	-23
10	10	12	11	-16	-13	-23	-23	-2	-24	-25	-23
10	11	12	13	-8	-6	-16	-16	-6	-18	-24	-22
10	12	15	10	-1	-4	-10	-14	1	-11	-17	-18
10	13	15	12	-8	-8	-9	-17	-1	-6	-11	-16
10	14	16	4	-4	-2	-14	-18	-3	-11	-16	-18
10	15	17	-4	-3	-4	-8	-12	2	-9	-18	-23
10	16	21	-2	-6	-7	-8	-9	2	-8	-12	-20
10	17	24	-7	-3	-7	-7	-12	8	-4	-11	-15
10	18	20	-9	-9	-11	-8	-13	5	-4	-10	-14
10	19	23	-6	-9	-10	-11	-14	-3	-10	-14	-15
10	20	25	-6	-6	-8	-9	-13	2	-8	-12	-16
10	21	26	-6	-6	-9	-9	-13	3	-5	-11	-14

GADWALL (WSI threshold = -7)

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	1	1	-6	-11	-13	-19	-23	-12	-14	-22	-24
10	2	2	-6	-11	-14	-20	-23	-12	-14	-22	-24
10	3	4	0	-12	-13	-20	-23	-12	-14	-22	-24
10	4	5	3	-11	-13	-20	-25	-11	-13	-23	-24
10	5	6	3	-11	-12	-21	-26	-10	-13	-23	-24
10	6	7	6	-12	-13	-22	-26	-9	-14	-23	-24
10	7	8	6	-13	-14	-23	-27	-8	-15	-24	-25
10	8	10	5	-14	-15	-24	-27	-7	-17	-24	-25
10	9	11	8	-14	-15	-24	-26	-6	-18	-24	-25
10	10	12	11	-13	-12	-22	-25	-6	-18	-24	-25
10	11	13	10	-11	-12	-21	-23	-3	-17	-23	-24
10	12	14	12	-11	-11	-20	-22	-3	-17	-22	-22
10	13	16	1	-10	-10	-19	-21	-2	-16	-21	-21
10	14	17	-1	-9	-9	-16	-19	-1	-15	-20	-21
10	15	18	-1	-8	-8	-14	-17	0	-14	-19	-20
10	16	20	-1	-6	-6	-12	-15	2	-11	-17	-19
10	17	21	-3	-5	-6	-10	-14	4	-9	-15	-18
10	18	22	-3	-5	-7	-9	-14	0	-8	-14	-17
10	19	23	-4	-6	-7	-9	-14	1	-8	-13	-17
10	20	25	-5	-6	-7	-9	-13	2	-7	-13	-17
10	21	28	-2	-2	-4	-4	-10	6	-3	-10	-11

SHOVELER (WSI threshold = -9)

Month	Day	Manitoba	North Dakota	Michigan	Iowa	Ohio	Tennessee	Ontario	New York	DC	North Carolina
		Churchill	Deville Lake	Green Bay	Des Moines	Columbus	Memphis	Ottawa	Syracuse	Washington	Charlotte
10	1	1	-6	-11	-13	-19	-23	-12	-14	-22	-24
10	2	2	-6	-11	-14	-20	-23	-12	-14	-22	-24
10	3	4	0	-12	-13	-20	-23	-12	-14	-22	-24
10	4	5	3	-11	-13	-20	-25	-11	-13	-23	-24
10	5	6	3	-11	-12	-21	-26	-10	-13	-23	-24
10	6	7	6	-12	-13	-22	-26	-9	-14	-23	-24
10	7	8	6	-13	-14	-23	-27	-8	-15	-24	-25
10	8	10	5	-14	-15	-24	-27	-7	-17	-24	-25
10	9	11	8	-14	-15	-24	-26	-6	-18	-24	-25
10	10	12	11	-13	-12	-22	-25	-6	-18	-24	-25
10	11	13	10	-11	-12	-21	-23	-3	-17	-23	-24
10	12	14	12	-11	-11	-20	-22	-3	-17	-22	-22
10	13	16	1	-10	-10	-19	-21	-2	-16	-21	-21
10	14	17	-1	-9	-9	-16	-19	-1	-15	-20	-21
10	15	18	-1	-8	-8	-14	-17	0	-14	-19	-20
10	16	20	-1	-6	-6	-12	-15	2	-11	-17	-19
10	17	21	-3	-5	-6	-10	-14	4	-9	-15	-18
10	18	22	-3	-5	-7	-9	-14	0	-8	-14	-17
10	19	23	-4	-6	-7	-9	-14	1	-8	-13	-17
10	20	25	-5	-6	-7	-9	-13	2	-7	-13	-17
10	21	28	-2	-2	-4	-4	-10	6	-3	-10	-11

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

Month	Day	Manitoba	North Dakota	Michigan	Iowa	Ohio	Tennessee	Ontario	New York	DC	North Carolina
		Churchill	Deville Lake	Green Bay	Des Moines	Columbus	Memphis	Ottawa	Syracuse	Washington	Charlotte
10	1	1	-6	-11	-13	-19	-23	-12	-14	-22	-24
10	2	2	-6	-11	-14	-20	-23	-12	-14	-22	-24
10	3	4	0	-12	-13	-20	-23	-12	-14	-22	-24
10	4	5	3	-11	-13	-20	-25	-11	-13	-23	-24
10	5	6	3	-11	-12	-21	-26	-10	-13	-23	-24
10	6	7	6	-12	-13	-22	-26	-9	-14	-23	-24
10	7	8	6	-13	-14	-23	-27	-8	-15	-24	-25
10	8	10	5	-14	-15	-24	-27	-7	-17	-24	-25
10	9	11	8	-14	-15	-24	-26	-6	-18	-24	-25
10	10	12	11	-13	-12	-22	-25	-6	-18	-24	-25
10	11	13	10	-11	-12	-21	-23	-3	-17	-23	-24
10	12	14	12	-11	-11	-20	-22	-3	-17	-22	-22
10	13	16	1	-10	-10	-19	-21	-2	-16	-21	-21
10	14	17	-1	-9	-9	-16	-19	-1	-15	-20	-21
10	15	18	-1	-8	-8	-14	-17	0	-14	-19	-20
10	16	20	-1	-6	-6	-12	-15	2	-11	-17	-19
10	17	21	-3	-5	-6	-10	-14	4	-9	-15	-18
10	18	22	-3	-5	-7	-9	-14	0	-8	-14	-17
10	19	23	-4	-6	-7	-9	-14	1	-8	-13	-17
10	20	25	-5	-6	-7	-9	-13	2	-7	-13	-17
10	21	28	-2	-2	-4	-4	-10	6	-3	-10	-11