

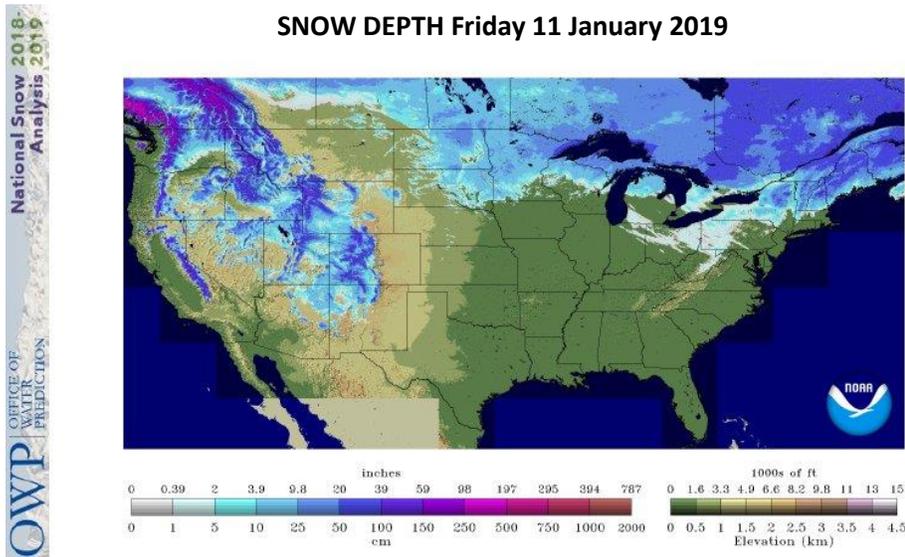
14 January – 20 January 2019 DUCK MIGRATION FORECAST

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

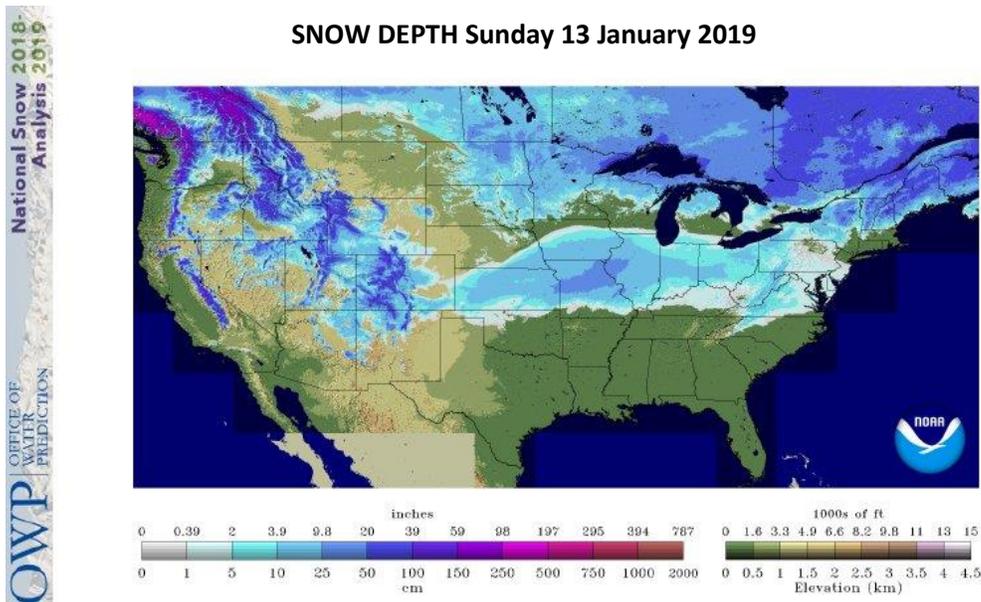
OVERVIEW: Cold returns to the Mississippi and Atlantic Flyways for the first time since Thanksgiving. A deep freeze sets in for the week in the upper mid-west and Great Lakes region. Further, snow is forecast for next weekend in the mid-west and the mid-Atlantic coast early in the week. This should fill in gaps in snow cover that resulted from snow events last week at mid-latitudes. This will make it increasingly difficult for field feeding ducks to meet their energy needs, especially considering the decreasing temperatures which increase their energy costs. See below THIS WEEKS SUPPLEMENT, the difference in snow cover in the Mississippi and Atlantic Flyways between Friday (11 Jan 2019) and today (Sunday 13 Jan 2019). Also, note that flooding continues throughout much of the Atlantic Flyway and southern reaches of the Mississippi Flyway.

THIS WEEKS SUPPLEMENT:

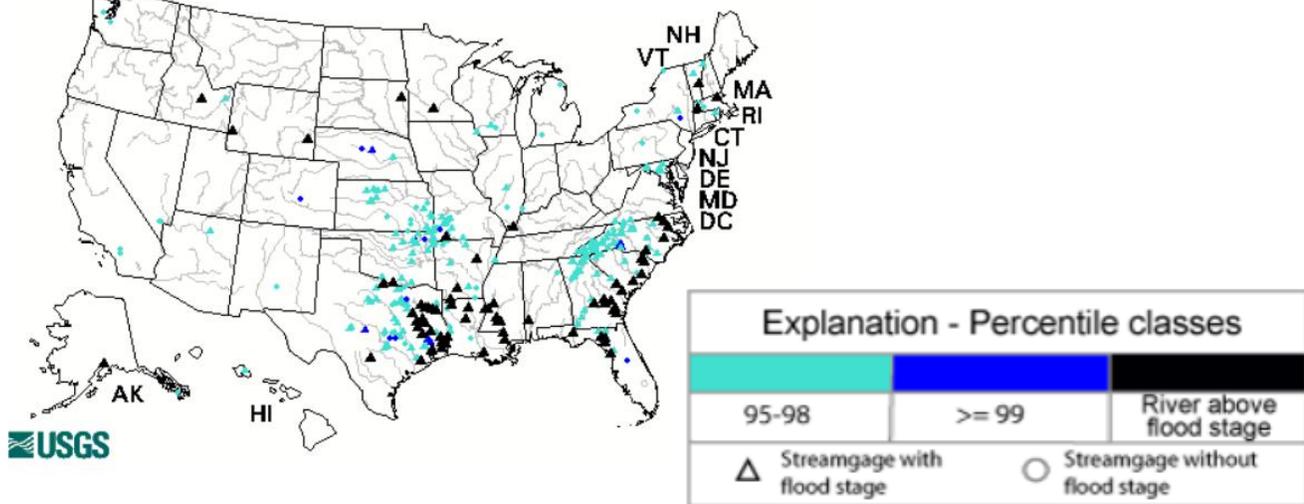
SNOW DEPTH Friday 11 January 2019



SNOW DEPTH Sunday 13 January 2019



Rivers at or near flood



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: Don't put away that waterfowling gear just yet! The season has been tough with little migration, especially of mallards, to southern locales. Those ducks that did arrive spread out among the abundant roosting and foraging opportunities provided by substantial flooding. While the flooding continues throughout much of the Mississippi and Atlantic Flyways, our WSI predicts the first substantial movement of mallards (and black ducks) out of northern and mid-latitude areas towards the southern portions of the flyways. Our WSI predicts mallard abundance will peak around the latitude of Memphis, especially early and later this week, with a potential lull mid-week in movements. The WSI also predicts further movement of dabbling ducks other than mallards (and black ducks) into more southern locales. With only two weeks left, it appears the cold and snow may have come just in time to 'save' season. BUT, we do caution that flooding continues to slow migration because waters can stay open even when conditions are cold, this has been holding ducks farther north this year than our WSI currently predicts. Good luck and stay safe.

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
1	7	No more forecast, froze out	No more forecast, froze out	-3	-5	-11	-13	No more forecast, froze out	2	-4	-10
1	8			4	0	-4	-9		-3	-9	-11
1	9			9	5	3	-3		3	-2	-4
1	10			7	1	3	-4		9	0	-2
1	11			6	2	3	-3		12	0	-2
1	12			6	2	3	-7		11	0	-3
1	13			7	6	4	-3		14	2	-3
1	14	No more forecast, froze out	No more forecast, froze out	6	4	8	-2	No more forecast, froze out	10	3	-4
1	15			6	4	5	-6		6	3	-5
1	16			11	6	6	-10		11	0	-7
1	17			10	6	5	-11		12	0	-9
1	18			15	12	5	-11		9	-4	-12
1	19			19	18	11	-7		17	-2	-7
1	20			19	18	16	-6		20	3	-6

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
1	7	No more forecast, froze out	No more forecast, froze out	-3	-5	-12	-14	No more forecast, froze out	4	-4	-11
1	8			-3	1	-5	-9		-3	-10	-11
1	9			11	7	4	-3		8	-2	-4
1	10			9	3	5	-4		17	1	-2
1	11			13	5	8	-3		27	1	-3
1	12			15	6	10	-7		27	2	-3
1	13			17	10	13	-4		32	10	-4
1	14	No more forecast, froze out	No more forecast, froze out	16	9	19	-2	No more forecast, froze out	29	11	-4
1	15			19	10	17	-6		26	12	-5
1	16			25	13	18	-11		33	4	-7
1	17			26	14	20	-12		36	0	-10
1	18			33	25	21	-12		36	-4	-13
1	19			39	35	35	-3		51	2	-11
1	20			40	37	43	5		62	11	-3

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
1	7	No more forecast, froze out	No more forecast, froze out	3	1	-5	-8	No more forecast, froze out	2	-8	-12
1	8			6	1	-4	-8		1	-8	-11
1	9			5	2	-3	-7		7	-7	-10
1	10			6	2	-1	-7		10	-5	-9
1	11			12	4	4	-7		18	-3	-8
1	12			14	5	6	-8		22	-1	-7
1	13			17	7	10	-7		25	6	-6
1	14	No more forecast, froze out	No more forecast, froze out	19	9	13	-6	No more forecast, froze out	28	8	-5
1	15			21	10	17	-5		30	10	-4
1	16			24	12	19	-5		33	5	-4
1	17			25	13	22	-6		36	1	-5
1	18			28	20	23	-7		39	-1	-6
1	19			31	25	31	-7		47	4	-7
1	20			34	29	36	-5		56	8	-7

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
1	7	No more forecast, froze out	No more forecast, froze out	3	1	-5	-8	No more forecast, froze out	2	-8	-12
1	8			6	1	-4	-8		1	-8	-11
1	9			5	2	-3	-7		7	-7	-10
1	10			6	2	-1	-7		10	-5	-9
1	11			12	4	4	-7		18	-3	-8
1	12			14	5	6	-8		22	-1	-7
1	13			17	7	10	-7		25	6	-6
1	14	No more forecast, froze out	No more forecast, froze out	19	9	13	-6	No more forecast, froze out	28	8	-5
1	15			21	10	17	-5		30	10	-4
1	16			24	12	19	-5		33	5	-4
1	17			25	13	22	-6		36	1	-5
1	18			28	20	23	-7		39	-1	-6
1	19			31	25	31	-7		47	4	-7
1	20			34	29	36	-5		56	8	-7

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

Month	Day	Manitoba Churchill	North Dakota Deviils Lake	Michigan Green Bay	Iowa Des Moines	Ohio Columbus	Tennessee Memphis	Ontario Ottawa	New York Syracuse	DC Washington	North Carolina Charlotte
1	7	No more forecast, froze out	No more forecast, froze out	3	1	-5	-8	No more forecast, froze out	2	-8	-12
1	8			6	1	-4	-8		1	-8	-11
1	9			5	2	-3	-7		7	-7	-10
1	10			6	2	-1	-7		10	-5	-9
1	11			12	4	4	-7		18	-3	-8
1	12			14	5	6	-8		22	-1	-7
1	13			17	7	10	-7		25	6	-6
1	14	No more forecast, froze out	No more forecast, froze out	19	9	13	-6	No more forecast, froze out	28	8	-5
1	15			21	10	17	-5		30	10	-4
1	16			24	12	19	-5		33	5	-4
1	17			25	13	22	-6		36	1	-5
1	18			28	20	23	-7		39	-1	-6
1	19			31	25	31	-7		47	4	-7
1	20			34	29	36	-5		56	8	-7