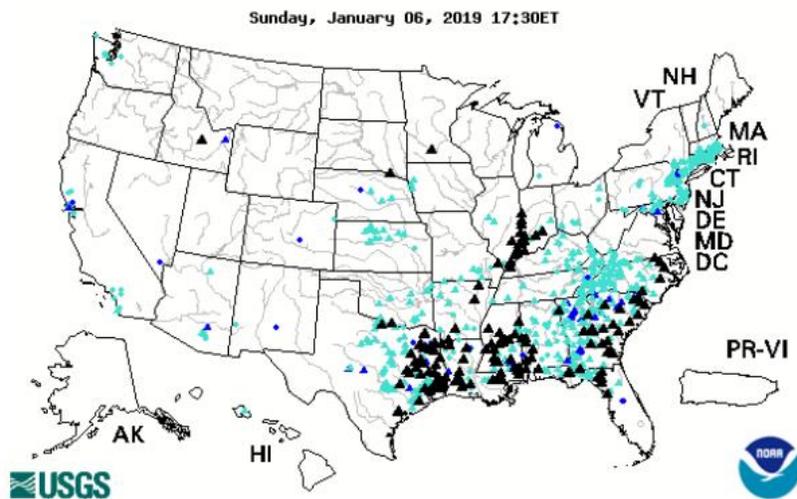


7 January – 13 January 2019 DUCK MIGRATION FORECAST

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OVERVIEW: Mild conditions continue in the Mississippi Flyway and the snow line is expected to remain at approximately the northern border of Iowa for the coming week. The coldest temperatures of the week are predicted to occur Wednesday and Thursday in the Mississippi Flyway and Thursday night through Sunday in the Atlantic Flyway. Excluding some measurable snow in the Great Lakes region on Wednesday and Thursday in the Atlantic Flyway, little to no snow is expected throughout the Mississippi and Atlantic Flyways in the coming week. River levels continue to drop in some locales at northern and mid-latitudes with rivers at or just below flood stage. Substantial flooding continues in the Mississippi Basin, southern reaches of the Mississippi and Atlantic Flyways, and Atlantic Coast (See THIS WEEKS SUPPLEMENT below).

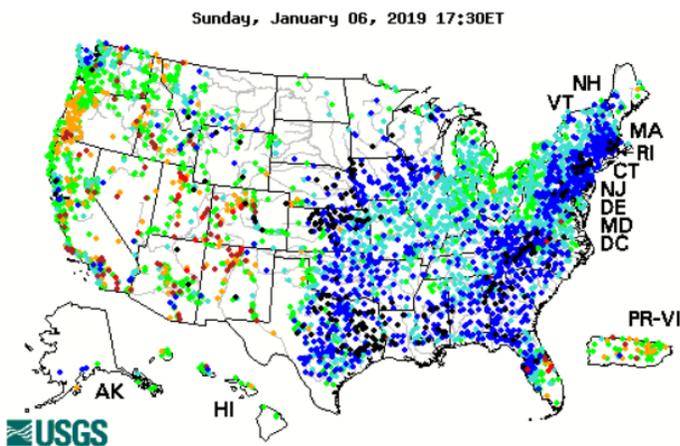
THIS WEEKS SUPPLEMENT:



Today's Flood Conditions (USGS WaterWatch)

- River Above Flood Stage
- 99th Percentile
- 95-98 Percentile

Daily Streamflow Conditions



Explanation

- High
- > 90th percentile
- 76th - 90th percentile
- 25th - 75th percentile
- 10th - 24th percentile
- < 10th percentile
- Low
- Not ranked

The colored dots on this map depict streamflow conditions as a [percentile](#), which is computed from the period of record for the current day of the year. Only stations with at least 30 years of record are used.

The **gray circles** indicate other stations that were not ranked in percentiles either because they have fewer than 30 years of record or because they report parameters other than streamflow. Some stations, for example, measure stage only.

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: Our WSI is only slightly beyond the threshold that predicts migration of mallards and black ducks in the Mississippi Flyway early this week, whereas this cold air moves east and intensifies in the Atlantic Flyway later in the week. Cold air pushes farthest south over the Atlantic Coast late this week, and our WSI predict a movement of dabbling ducks (other than mallards and black ducks) out of the latitude of Chesapeake Bay into more southern locales. Some of these ducks may even make it as far as South Carolina by the weekend. Migration of mallards and black ducks out of the latitude of NY is predicted for later this week, but open water produced by flooding will likely continue to delay these predicted movements. Flooding remains common at northern and mid-latitudes and, despite the cold, ducks are likely to find many feeding areas. Even if ducks get to southern locales, substantial flooding provides them with an abundance of foraging and roosting options which may make it difficult to experience quality hunting opportunities. Scouting and being mobile is critical in these conditions.

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
12	31	No more forecast, froze out	No more forecast, froze out	6	6	-10	-11	No more forecast, froze out	-3	-9	-16
1	1			13	11	-3	-5		1	-8	-13
1	2			11	7	-1	-4		4	-5	-10
1	3			7	1	-2	-4		1	-7	-11
1	4			4	-3	-3	-4		-2	-8	-8
1	5			4	0	-6	-8		-2	-9	-11
1	6	No more forecast, froze out	No more forecast, froze out	7	-4	-3	-10	No more forecast, froze out	5	-8	-9
1	7			-3	-5	-11	-13		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			5	0	1	-5		13	0	-4
1	12			5	1	1	-5		13	-2	-4
1	13	4	-2	2	-5	11	0	-3			

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
12	31	No more forecast, froze out	No more forecast, froze out	18	10	-10	-12	No more forecast, froze out	0	-10	-17
1	1			27	17	-3	-6		2	-9	-14
1	2			26	14	0	-4		6	-5	-11
1	3			24	7	-3	-5		3	-8	-12
1	4			20	-3	-3	-4		-2	-8	-9
1	5			20	1	-6	-9		-2	-10	-12
1	6	No more forecast, froze out	No more forecast, froze out	23	-4	-4	-11	No more forecast, froze out	6	-9	-9
1	7			-3	-5	-12	-14		4	-4	-11
1	8			7	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			11	3	4	-5		23	1	-4
1	12			9	5	4	-6		25	-2	-4
1	13	9	-2	6	-6	24	0	-3			

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
12	31	No more forecast, froze out	No more forecast, froze out	16	5	-4	-9	No more forecast, froze out	4	-7	-11
1	1			19	9	-5	-9		1	-8	-12
1	2			22	12	-4	-8		2	-8	-13
1	3			24	11	-5	-7		2	-9	-13
1	4			25	4	-4	-6		-1	-9	-13
1	5			25	4	-4	-6		0	-8	-13
1	6	No more forecast, froze out	No more forecast, froze out	25	2	-4	-7	2	-8	-12	
1	7			3	1	-5	-8	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			10	3	0	-7	14	-3	-8	
1	12			8	4	2	-8	18	-5	-7	
1	13	10	-1	3	-7	21	-2	-6			

SHOVELER (WSI threshold = -9)

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
12	31	No more forecast, froze out	No more forecast, froze out	16	5	-4	-9	No more forecast, froze out	4	-7	-11
1	1			19	9	-5	-9		1	-8	-12
1	2			22	12	-4	-8		2	-8	-13
1	3			24	11	-5	-7		2	-9	-13
1	4			25	4	-4	-6		-1	-9	-13
1	5			25	4	-4	-6		0	-8	-13
1	6	No more forecast, froze out	No more forecast, froze out	25	2	-4	-7	2	-8	-12	
1	7			3	1	-5	-8	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			10	3	0	-7	14	-3	-8	
1	12			8	4	2	-8	18	-5	-7	
1	13	10	-1	3	-7	21	-2	-6			

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

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
12	31	No more forecast, froze out	No more forecast, froze out	16	5	-4	-9	No more forecast, froze out	4	-7	-11
1	1			19	9	-5	-9		1	-8	-12
1	2			22	12	-4	-8		2	-8	-13
1	3			24	11	-5	-7		2	-9	-13
1	4			25	4	-4	-6		-1	-9	-13
1	5			25	4	-4	-6		0	-8	-13
1	6	No more forecast, froze out	No more forecast, froze out	25	2	-4	-7	2	-8	-12	
1	7			3	1	-5	-8	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			10	3	0	-7	14	-3	-8	
1	12			8	4	2	-8	18	-5	-7	
1	13	10	-1	3	-7	21	-2	-6			