September Overview & Northeast DEWS Discussion

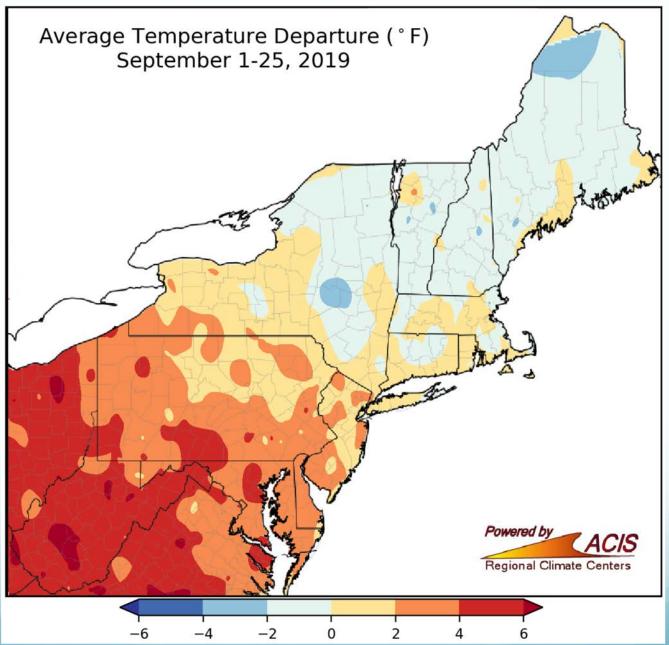
By: Samantha Borisoff, Climatologist Northeast Regional Climate Center







September Temperatures





From 4°F below normal to over 6°F above normal

September Severe Weather

Not much this month – some reports of wind damage, small hail, and flash flooding – mostly in early September

Tornadoes:

- Two
 - one in New York
 - one in Connecticut
- Northeast's September average is 5

MANORVILLE TORNADO

September 2, 2019



Preliminary survey results



DAMAGE SURVEY

Rating: EF0

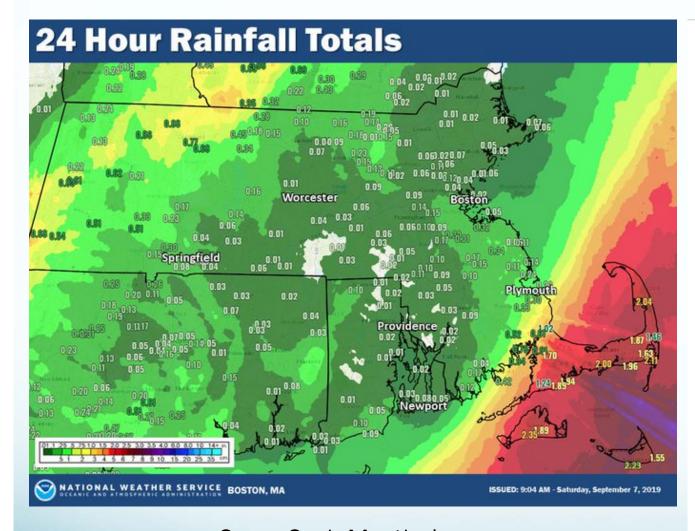
Estimated Peak Winds: 85 mph

Path Length: 1.6 miles
Path Width: 50 yards



Dorian Skimmed the Northeast

Peak Winds

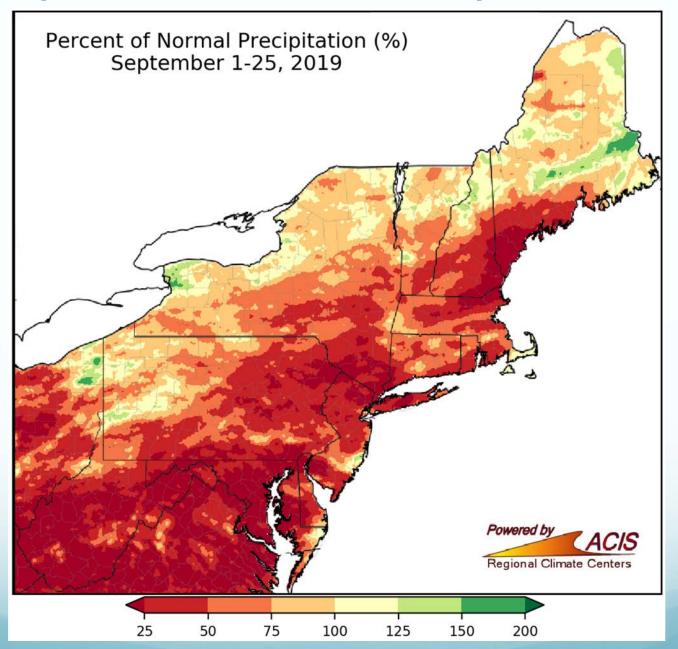




Cape Cod, Martha's
Vineyard, and
Nantucket received the
highest rainfall

BARNSTABLE COUNTY PROVINCETOWN WELLFLEET PROVINCETOWN SAGAMORE BEACH WELLFLEET CHAPIN CHATHAM KALMUS WALMUS						
PROVINCETOWN	63	MPH	0645	AM	09/07	CWOP
WELLFLEET	60	MPH	0602	AM	09/07	CWOP
PROVINCETOWN	56	MPH	0616	AM	09/07	CWOP
SAGAMORE BEACH	51	MPH	0700	AM	09/07	WXFLOW
WELLFLEET	50	MPH	0546	AM	09/07	WXFLOW
CHAPIN	48	MPH	0728	AM	09/07	WXFLOW
CHATHAM	45	MPH	0809	AM	09/07	WXFLOW
KALMUS	45	MPH	0714	AM	09/07	WXFLOW
WEST DENNIS	45	MPH	0358	AM	09/07	WXFLOW
HATCH BEACH	44	MPH	0753	AM	09/07	WXFLOW
ORI FANS	41	MPH	0732	AM	09/07	CMOP
HYANNTS AP	41	MPH	9695	ΔΜ	09/07	4505
WEST FALMOUTH	40	MPH	0716	AM	09/07	WXFLOW
DUKES COUNTY						
VINEYARD STATION MARTHAS VINEYARD AP		MPH				WXFLOW
MARTHAS VINEYARD AP	44	MPH	0134	AM	09/07	ASOS
ESSEX COUNTY						
ROCKPORT	50	МРН	0530	АМ	09/07	CWOP
CHILDRENS ISLAND	40 N	1PH	0333 A	AM 0	9/07	CWOP WXFLOW
NANTUCKET COUNTY					00/07	51100
SIASCONSET	53	MPH	0501	AM	09/07	CMOP
NANTUCKET AP	51	MPH	0736	AM	09/07	ASOS
NANTUCKET	43	MPH	0501 0736 0538	AM	09/07	CWOP
NANTUCKET HARBOR	40	MPH	0540	AM	09/07	WXFLOW
PLYMOUTH COUNTY						
DUXBURY	49	MPH	0615	AM	09/07	WXFLOW
PLYMOUTH AP	45	MPH	9649	AM	09/07	ASOS
HULL YC	44	MPH	0724	AM	09/07	WXFLOW ASOS WXFLOW
RHODE ISLAND						
WASHINGTON COUNTY						
CHARLESTOWN	58	MPH	0502	AM	09/07	CWOP WXFLOW
		MPH	0011		!	LINCEL OLL
BLOCK ISLAND JETTY	45		0011	AM	09/0/	WXFLOW
BLOCK ISLAND JETTY URI	45	MPH	0224	AM AM	09/07	WXFLOW
	42	MPH	0224	AM	09/07 09/07	WXFLOW
BLOCK ISLAND JETTY URIMASSACHUSETTS	45	MPH	0224	AM	09/07	WXFLOW
MASSACHUSETTS	42	MPH	0224	AM	09/07	WXFLOW
MASSACHUSETTS	42	MPH	0224	AM	09/07	WXFLOW
MASSACHUSETTS	42	MPH	0224	AM	09/07	WXFLOW
MASSACHUSETTS	42	MPH	0224	AM	09/07	WXFLOW
MASSACHUSETTS	42	MPH	0224	AM	09/07	WXFLOW
MASSACHUSETTS	42	MPH	0224	AM	09/07	WXFLOW
MASSACHUSETTS	42	MPH	0224	AM	09/07	WXFLOW
MASSACHUSETTS	42	MPH	0224	AM	09/07	WXFLOW
MASSACHUSETTS	42	MPH	0224	AM	09/07	WXFLOW
MASSACHUSETTS	42	MPH	0224	AM	09/07	WXFLOW
MASSACHUSETTS	42	MPH	0224	AM	09/07	WXFLOW
MASSACHUSETTS	42	MPH	0224	AM	09/07	WXFLOW
MASSACHUSETTS	42	MPH	0224	AM	09/07	WXFLOW
MASSACHUSETTS MARITIME STATIONS BUOY 44008 -70MI SE OF ACK BUOY 44020 -15MI S OF HYA DUXBURY SCITUATE WOODS HOLE 11 NNE SCITUATE 10 NNE PROVINCETOWN 7 SE GLOUCESTER NANTUCKET DOG BAR BREAKWATER WOODS HOLE WEST ISLAND	42	MPH	0224	AM	09/07	WXFLOW
MASSACHUSETTS MARITIME STATIONS BUOY 44008 -70MI SE OF ACK BUOY 44020 -15MI S OF HYA DUXBURY SCITUATE WOODS HOLE 11 NNE SCITUATE 10 NNE PROVINCETOWN 7 SE GLOUCESTER NANTUCKET DOG BAR BREAKWATER WOODS HOLE WEST ISLANDRHODE ISLAND	81 52 48 47 44 43 43 43 43 43 43 42	MPH MPH MPH MPH MPH MPH MPH MPH MPH MPH	0610 0210 0650 0650 0717 0750 0650 0704 0512 0601 0732 0130	MA MA MA MA MA MA MA MA MA MA MA MA	09/07 09/07 09/07 09/07 09/07 09/07 09/07 09/07 09/07	NDBC NDBC CWOP WXFLOW CWOP NDBC NDBC NDBC NDBC NDS - NWLON WXFLOW WXFLOW
MASSACHUSETTS MARITIME STATIONS BUOY 44008 -70MI SE OF ACK BUOY 44020 -15MI S OF HYA DUXBURY SCITUATE WOODS HOLE 11 NNE SCITUATE 10 NNE PROVINCETOWN 7 SE GLOUCESTER NANTUCKET DOG BAR BREAKWATER WOODS HOLE WEST ISLANDRHODE ISLAND	81 52 48 47 44 43 43 43 43 43 43 42	MPH MPH MPH MPH MPH MPH MPH MPH MPH MPH	0610 0210 0650 0650 0717 0750 0650 0704 0512 0601 0732 0130	MA MA MA MA MA MA MA MA MA MA MA MA	09/07 09/07 09/07 09/07 09/07 09/07 09/07 09/07 09/07	NDBC NDBC CWOP WXFLOW CWOP NDBC NDBC NDBC NDBC NDS - NWLON WXFLOW WXFLOW
MASSACHUSETTS MARITIME STATIONS BUOY 44008 -70MI SE OF ACK BUOY 44020 -15MI S OF HYA DUXBURY SCITUATE WOODS HOLE 11 NNE SCITUATE 10 NNE PROVINCETOWN 7 SE GLOUCESTER NANTUCKET DOG BAR BREAKWATER WOODS HOLE WEST ISLANDRHODE ISLAND	81 52 48 47 44 43 43 43 43 43 43 42	MPH MPH MPH MPH MPH MPH MPH MPH MPH MPH	0610 0210 0650 0650 0717 0750 0650 0704 0512 0601 0732 0130	MA MA MA MA MA MA MA MA MA MA MA MA	09/07 09/07 09/07 09/07 09/07 09/07 09/07 09/07 09/07	NDBC NDBC CWOP WXFLOW CWOP NDBC NDBC NDBC NDBC NDS - NWLON WXFLOW WXFLOW
MASSACHUSETTS MARITIME STATIONS BUOY 44008 -70MI SE OF ACK BUOY 44020 -15MI S OF HYA DUXBURY SCITUATE WOODS HOLE 11 NNE SCITUATE 10 NNE PROVINCETOWN 7 SE GLOUCESTER NANTUCKET DOG BAR BREAKWATER WOODS HOLE WEST ISLANDRHODE ISLAND	81 52 48 47 44 43 43 43 43 43 43 42	MPH MPH MPH MPH MPH MPH MPH MPH MPH MPH	0610 0210 0650 0650 0717 0750 0650 0704 0512 0601 0732 0130	MA MA MA MA MA MA MA MA MA MA MA MA	09/07 09/07 09/07 09/07 09/07 09/07 09/07 09/07 09/07	NDBC NDBC CWOP WXFLOW CWOP NDBC NDBC NDBC NDBC NDS - NWLON WXFLOW WXFLOW
MASSACHUSETTS MARITIME STATIONS BUOY 44008 -70MI SE OF ACK BUOY 44020 -15MI S OF HYA DUXBURY SCITUATE WOODS HOLE 11 NNE SCITUATE 10 NNE PROVINCETOWN 7 SE GLOUCESTER NANTUCKET DOG BAR BREAKWATER WOODS HOLE WEST ISLANDRHODE ISLAND	81 52 48 47 44 43 43 43 43 43 43 42	MPH MPH MPH MPH MPH MPH MPH MPH MPH MPH	0610 0210 0650 0650 0717 0750 0650 0704 0512 0601 0732 0130	MA MA MA MA MA MA MA MA MA MA MA MA	09/07 09/07 09/07 09/07 09/07 09/07 09/07 09/07 09/07	NDBC NDBC CWOP WXFLOW CWOP NDBC NDBC NDBC NDBC NDS - NWLON WXFLOW WXFLOW

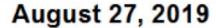
September Precipitation



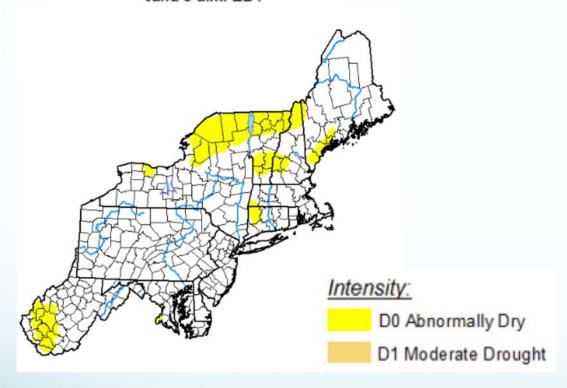


From less than 25% of normal to over 150% of normal

Drought Monitor

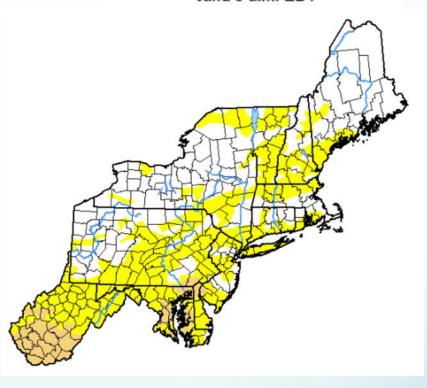


(Released Thursday, Aug. 29, 2019) Valid 8 a.m. EDT



September 24, 2019

(Released Thursday, Sep. 26, 2019) Valid 8 a.m. EDT

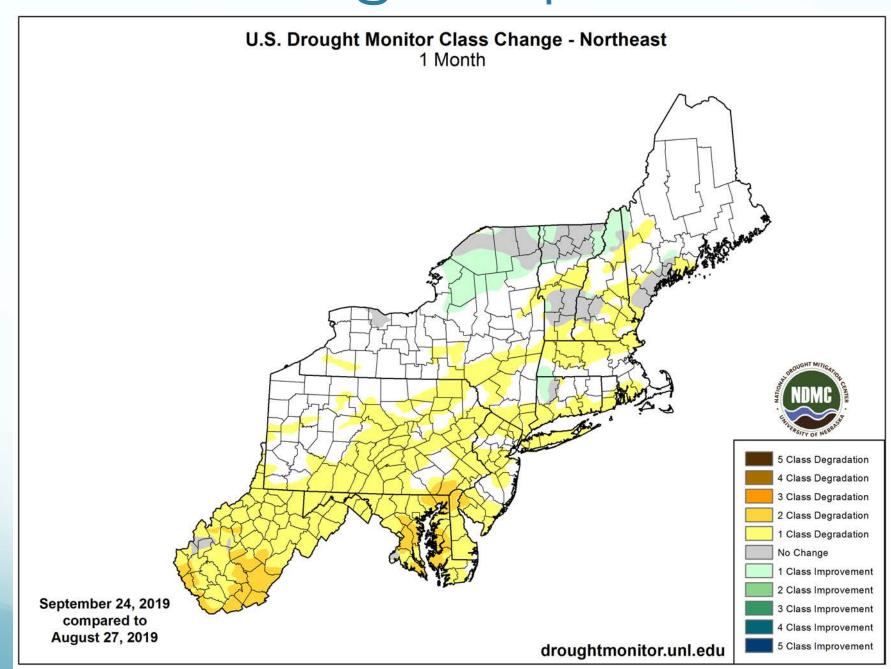




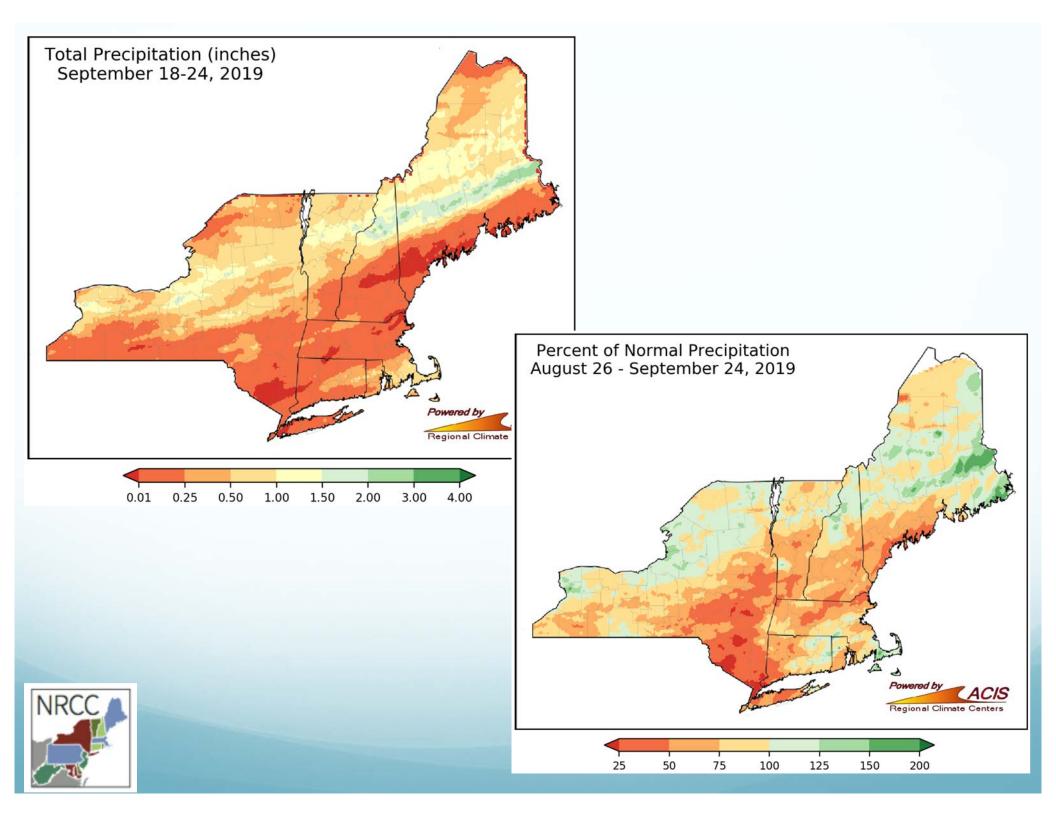
At the end of August, 14% of the region was abnormally dry and no drought conditions

By the end of September, 43% was abnormally dry and 7% was in moderate drought

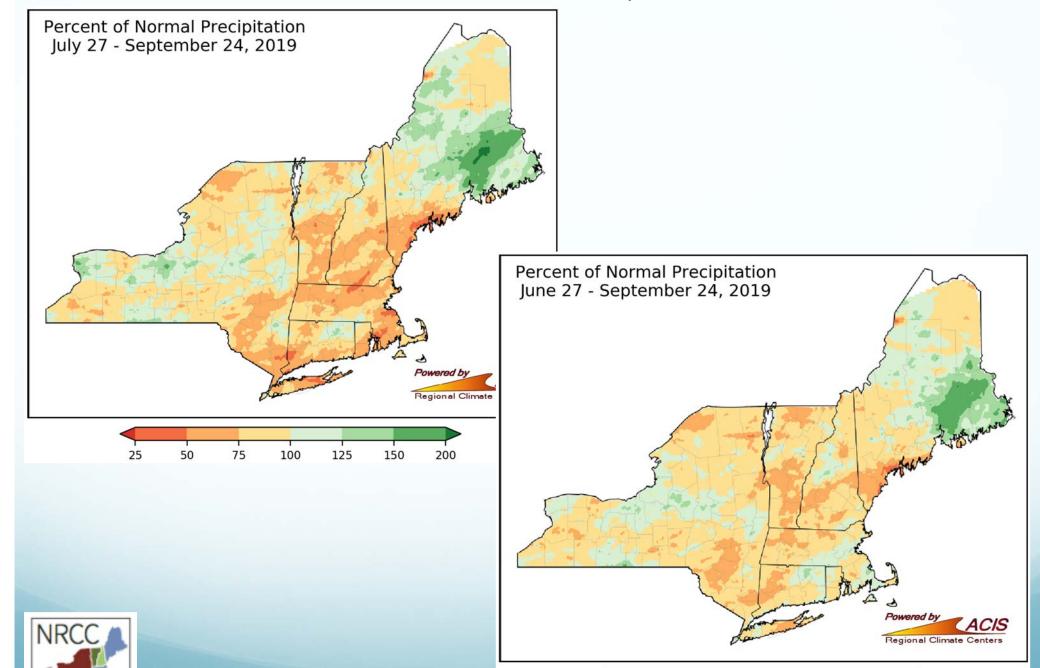
Change Map

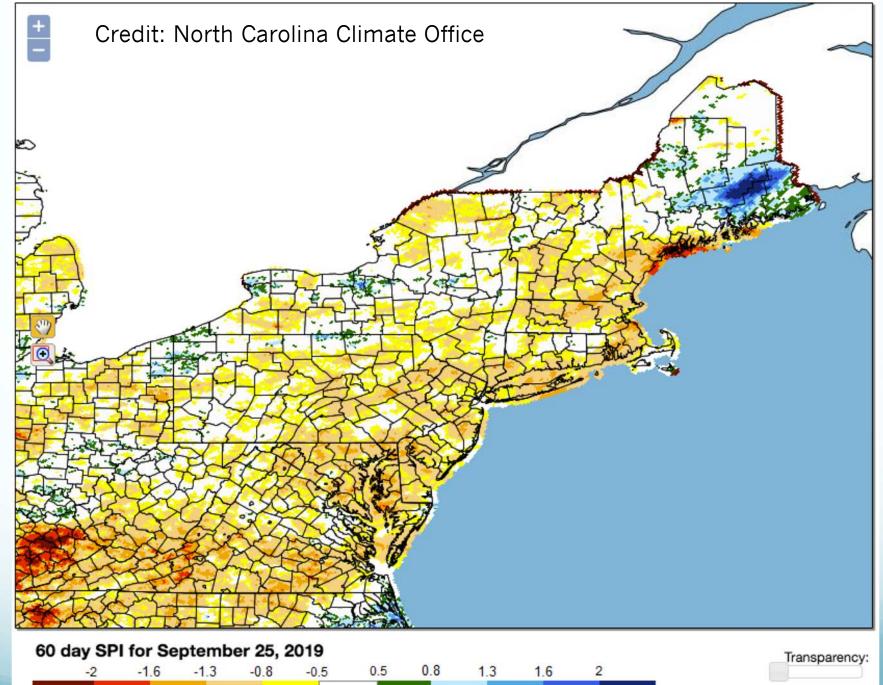






Percent of Normal Precipitation

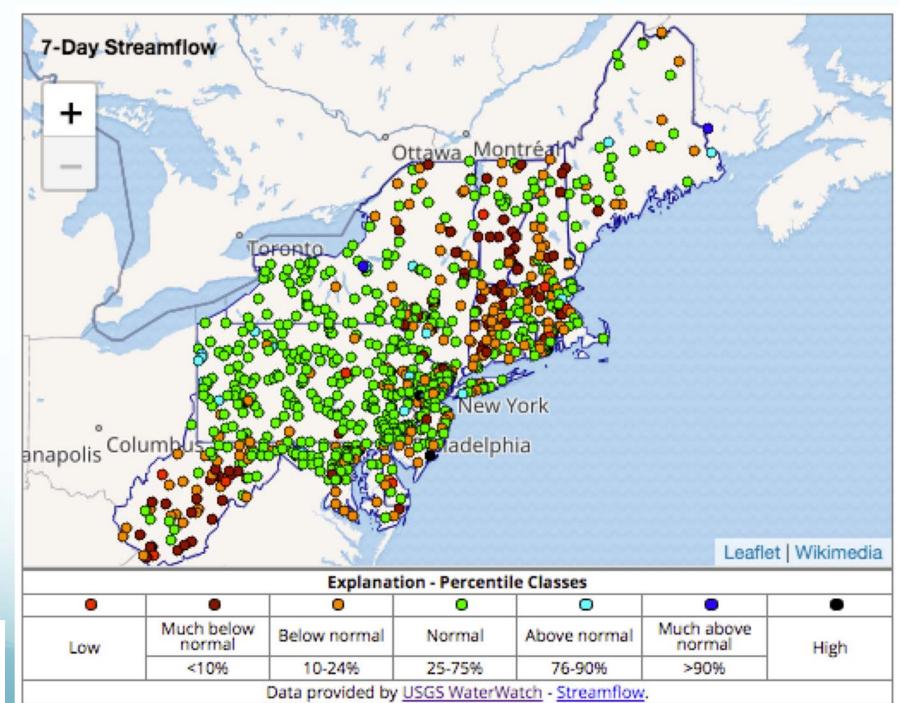




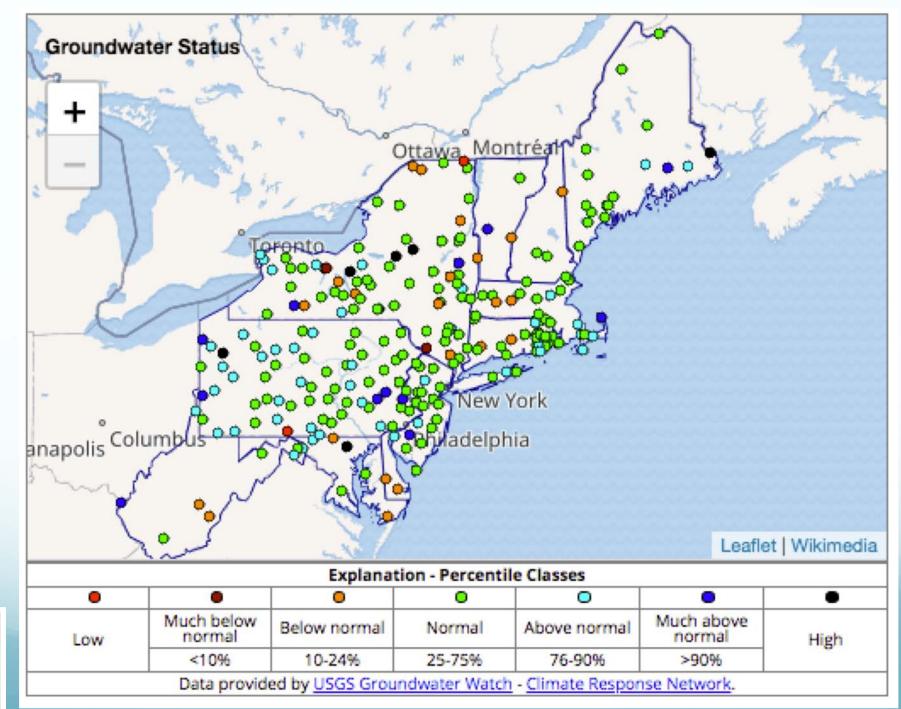




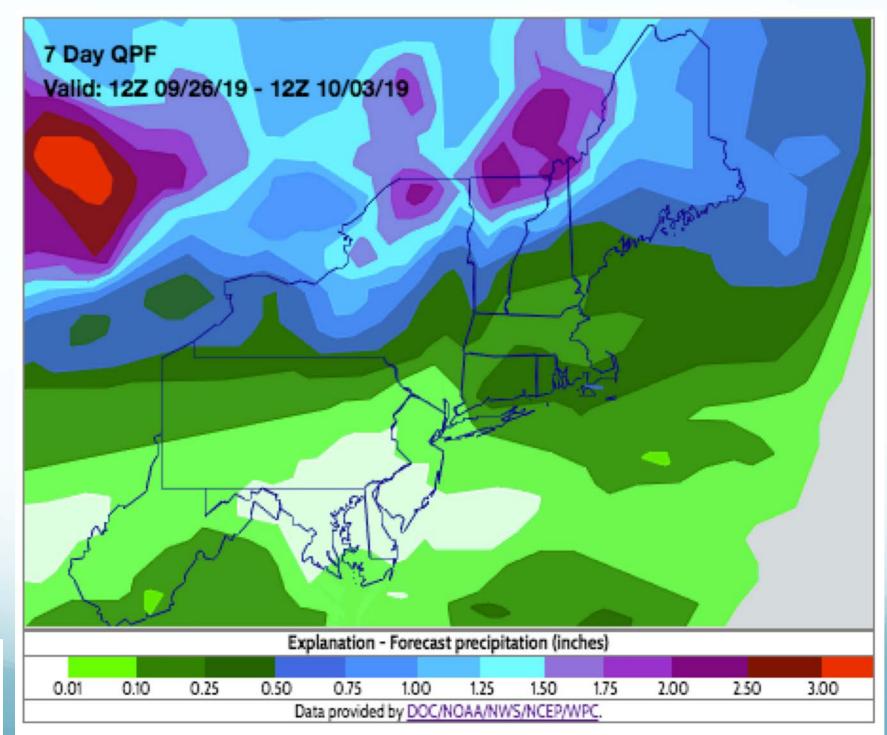
DOWNLOAD GEOTIFF





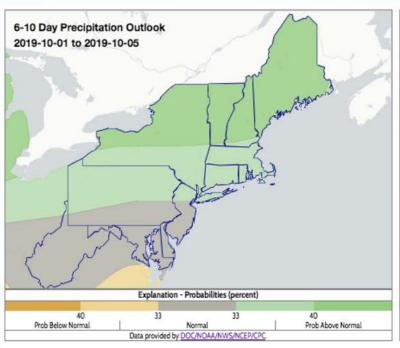


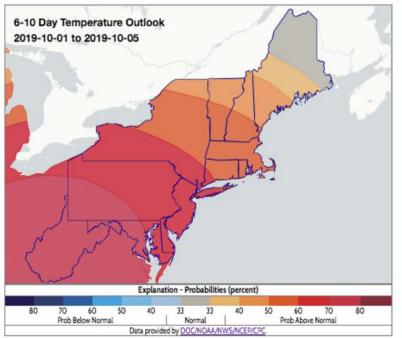


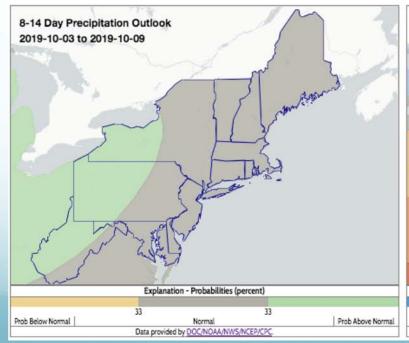


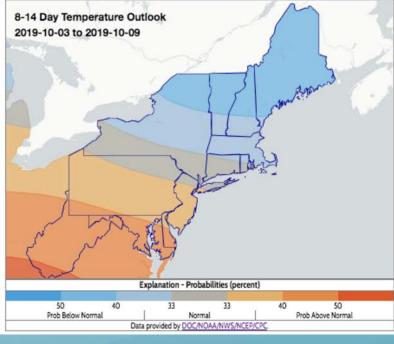


Short-term Outlooks



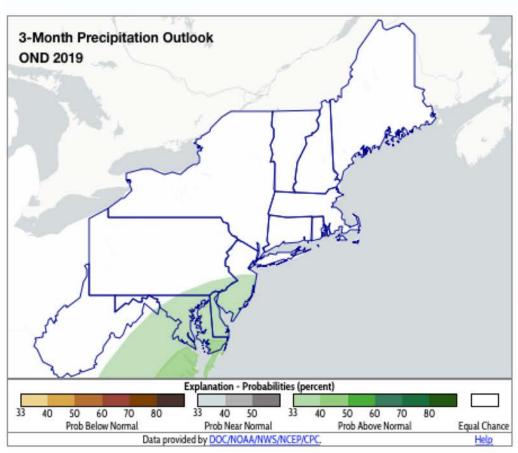


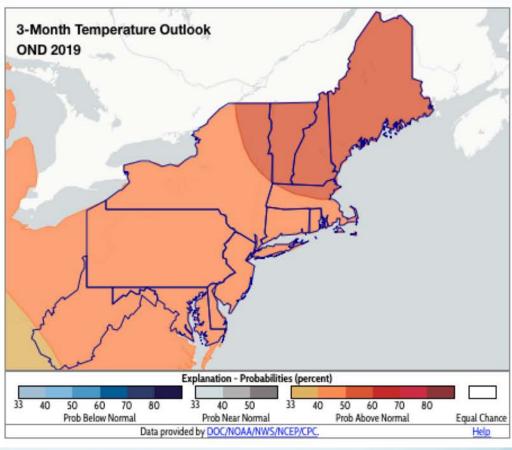






Long-term Outlooks







Contact Information

- nrcc@cornell.edu
- 607-255-1751

Upcoming Webinars

- Thursday, October 31 at 9:30am
 - Report Out on our Special Extreme Precip Webinar Series & Regional Workshop
- Tuesday, November 26 at 9:30am
 - ENSO Update and Winter Outlook
- Thursday, December 19 at 9:30am
 - Delaware State Climate Team



www.nrcc.cornell.edu