

Delaware Water Supply Coordinating Council
'Emergency' Meeting
September 19, 2016
Final Minutes

ADMINISTRATIVE- John Barndt, Chair

John Barndt called the meeting to order at 1:05 PM and mentioned the main reason for this special meeting is to consider whether the WSCC wishes to recommend a Drought Watch or other recommendation to the Secretary and Governor. The normal order of presentations will be given to the Council. Virgil Holmes, Director of the Division of Water was introduced.

WATER CONDITIONS REPORT- Stefanie Baxter, DGS

Stefanie Baxter presented a handout summary as of 8:00 AM on September 19, 2016, of hydrologic conditions which is a snapshot of water conditions and that are tracked on a monthly basis (see attachment title Northern Delaware Drought Advisory Guidelines dated September 18, 2016).

- Precipitation for the 12-month period at the Wilmington Airport is -2.39". This is well above the -6" drought watch criterion. Precipitation for the 6-month period is -1.41", also above the drought watch criterion. For today's meeting Stefanie substituted rainfall data from the Talley Yards station for the Porter Reservoir, because real-time data are available.
- Brandywine Creek (30-day moving avg) is at 72.6 mgd. This is in the drought watch range and barely above drought warning. White Clay Creek-Stanton (30-day moving avg) is at 32.1 mgd which is in the drought warning criterion and just above the drought emergency criterion of 31 mgd. This will change due to today's rain event. White Clay Creek-Newark (30-day moving avg) is at 14.3 mgd which is in the drought warning criterion. Well Db24-18 is at 13.37 (feet below land surface) and is in the lower range of normal.
- The Water Conditions Index is 4.13". This is barely above drought watch and slowly moving into the drought warning criterion.
- Continuing to monitor chlorides. It is 675 ppm at the Christina River in Newport. This is well above the drought warning concentration.
- Hoopes Reservoir (City of Wilmington) is currently at -3.8 ft. (as of 9/12/16). This is well above the -10 foot drought watch criterion.
- Newark Reservoir is at -11.0 ft, which is in the drought watch criterion. (as of 9/16/16).
- Aquifer Storage and Recovery: SUEZ ASR is currently storing 0.102 mg (9/6/16) and Artesian Water ASR is at 55 mg (9/12/16).
- Marsh Creek Reservoir is currently releasing 7.8 mgd into the Brandywine Creek which has helped augment flows.
- Chlorides on the Delaware River (9/15/16) are currently at River Mile 79 and the normal is at River Mile 76. (The DRBC representative reported that it is now at River Mile 80.)

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- Reservoirs in New York City (DRBC 9/16/16) - storage 187.5 bg or 64 bg above drought watch. Flows have been low.
- The Kent County Hydrologic Conditions: precipitation for Dover 12-month is -3.59", 6-month -1.99", 5-month +0.14". Streamflow for the St. Jones River at Dover 30-day moving average for August 20 through September 19 at 10.8 mgd and is normal. Groundwater level for Mc51-01a (September 2016) is 14.9 ft. below land surface and is below normal.
- The Sussex County Hydrologic Conditions: precipitation at Georgetown for 12-month is +3.05", 6-month +0.77", 5-month +0.42". Streamflow for the Nanticoke River at Bridgeville 30-day moving average for August 20 through September 18 at 17 mgd and is just below normal. Groundwater for Qe44-01 (September 2016) is 11.2 ft. below land surface and is below normal.

Stefanie presented another handout titled Northern New Castle County: Comparison of Years 2007, 2012, and 2016. This is a nine year span. In 2007, there was a drought watch. In 2012, conditions were very dry and citizens were asked by DNREC Secretary O'Mara to conserve water. Stefanie states flows as of yesterday were 7 Q 7 and are normally between 7 Q 5 and 7 Q 10. Of particular note was that in 2012 the 6 month precipitation deficits were much larger and began in the spring and throughout the summer months. Further, the Index had dropped into Drought Warning in June/July. Whereas, the current 2016 values did not begin to worsen until September.

Second page of this handout was the Comparison of Years 2007, 2012, and 2016 for Kent County. The 12-month and 6-month precipitation numbers, in Dover, were from D O Stations. The numbers over the years for the St. Jones River in Dover were showing that the flows were not too bad. The St. Jones is currently flowing at about the 75th percentile of historical flow. Well Mc51-01 is located in the southwestern corner of Kent County, Delaware, almost the Maryland State Line. The numbers are highlighted in blue and represent numbers in the low range. Of particular note is that the precipitation and groundwater levels were much lower throughout the summer of 2012 than in 2016 and so Kent County was not a concern for this meeting.

Third page of this handout was the Comparison of Years 2007, 2012, and 2016 for Sussex County. The precipitation is slightly above normal. The numbers for the Nanticoke River in Bridgeville and Well Qe44-01 were a little bit below normal. Of particular note is that the precipitation and groundwater levels were much lower throughout the summer of 2012 than in 2016 and so Sussex County was not a concern for this meeting.

Stefanie stated there has not been a lot of rain the past five, six months and so the stream flows have dropped significantly. Although many indicators are in the Drought Watch range, this year is nowhere near 2002, for example. In 2002, the deficits began the previous fall. There were no questions for Stefanie. Charles Jenner comments about the drought watch for Chester, PA. Dan Leathers stated that August 2016 was one of the warmest months since 1895. September 1st was the last time there was rain, until today.

DGS' full analysis is found on <http://www.dgs.udel.edu>

FORECAST SYNOPSIS- Daniel Leathers, State Climatologist

Dan Leathers presented (see attachment titled Precipitation Forecast)

- 2016 is the 2nd or 3rd warmest summer since records began. These higher temperatures contribute to the drought conditions.
- Good rains as of 11:00 AM today will help.
- About 1" of rain in Northern Delaware Areas.
- Sussex County has about 3" of rain in the past 24 hours.
- Hurricane Karl presently in the Atlantic has a very minimal chance of affecting our area. Tropical systems could pop up though.
- Chance of showers may continue through Tuesday, September 20, 2016. The rest of the week is predicted to be above average. 8-14 day outlook anticipates continued warmth, with an equal chance of below normal or above normal precipitation.
- Should see more kinds of soaking rains into the later months of this year.

Dan asked if there were any questions. Victor Singer asked how much rainfall would be normal. Dan stated 1 ½" and it depends when the rain will come and how much rain will come or not. Charles Jenner asked what the rough estimate of rainfall is for October. Dan stated between 3 and 4".

WATER UTILITY REPORTS

Artesian Water - Joe DiNunzio presented: Cruising along. 19.2 mgd demand for the month to date but over the weekend demand dropped to 19.1 mgd Saturday and 17.9 mgd on Sunday, September 18th, 2016. ASR storage is at 49 mgd and is normal with 900,000 gallons withdrawn daily which is normal.

Newark- Mark Neimeister presented: Streams are low. The City is not withdrawing from White Clay Creek; Demands are as expected for this time of year with roughly 2.5 mgd are being withdrawn from the reservoir and 1.3 mgd from the well field. With today's rainfall, the City began withdrawing from White Clay Creek at 7:30 AM this morning. The City is currently pumping roughly 10,000 gallons per minute from the White Clay Creek to the reservoir which is expected to increase the reservoir level by 1.5 feet per day. Although this pumping rate is expected to decrease as the stream returns back to base flow conditions. The city is willing to go down as far as possible to provide water for the customers. Both the SUEZ and the Artesian Water interconnections are operational.

New Castle Water - Jay Guyer presented: No change. ½ mgd demand. No decline or negative impact on wells.

Suez (formerly United Water)- Larry Finnicum presented: 17.3 mgd. The Tidal Control Structure is in Stage 2 of the Operation Plan. Chlorides are at 60 to 70 at the plant intake. Hoopes Reservoir can be used if we need to use it; however, not needed at this time. SUEZ tested the Newark interconnect yesterday and is operational.

Wilmington Water - Sean Duffy presented: 18 mgd with a slight decrease over the weekend. Hoopes Reservoir is 3.7 ft. below top levels. City may start pumping from Brandywine River to Hoopes Reservoir with today's rainfall. The reservoir could gain 1-foot in elevation if we pumped into it for 5 days. Hoopes Reservoir is ready if Suez needs it.

Tidewater Utilities- Sheila Shannon presented: Above normal water use of approximately 7 mgd for all three counties as an average for September.

Sussex Shores- Kelly Glenn presented: Normal demands and no issues.

WATER SUPPLY COORDINATING COUNCIL CONSIDERATION OF DROUGHT WATCH FOR NORTHERN DELAWARE

John Barndt presented the three options for the Council to consider:

1. Do nothing today due to the rain we are receiving. Reconvene on September 29 to decide if any action is necessary.
2. Similar to 2012, announce a general alert to the public by DNREC about 'dry conditions' with no formal WSCC recommendation for a Drought declaration.
3. Recommend a drought watch for northern New Castle County for consideration by the DNREC Secretary and the Governor.

Mark Neimeister stated Newark is comfortable waiting until next Thursday, September 29, 2016. Therefore, he favors doing nothing at this time of the meeting.

Charles Jenner addressed the council about the advantages and disadvantages of entering a drought watch. The advantages include raising public awareness of the importance of conservation to reduce consumption when and where needed. The declaration of a drought watch also underlines the importance of the maximization of storage by the suppliers. He also emphasized that a disadvantage of the declaration of a drought watch is possible public overreaction and resulting loss of revenue by the water suppliers and Green Industry businesses.

Stefanie Baxter contrasted the experiences of the Drought Watch of 2007 and the general public announcement of dry conditions of 2012. In 2007, a late-season dry spell, similar to this year's, caused the Council to hastily issue a Drought Watch. It started raining shortly afterwards (similarly to the rain falling during this meeting), and the Drought Watch was widely ignored, and finally was repealed in the winter. In 2012, under much more serious deficits lasting all summer, the Council asked the Secretary of DNREC to make a general announcement of dry conditions without issuing a Drought Watch. The announcement was made with encouragement of voluntary conservation. When the rain began again in October, it was not necessary to retract or repeal a Drought Watch.

Joe DiNunzio made a motion stating that no action should be taken today and that the situation can be reassessed at the Council meeting already scheduled for September 29th. Thom May of the Division of Public Health seconded. Lorraine Fleming added that she also feels the general

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public should be aware of what the council is doing and should be alerted about the dry conditions too although she expressed support for the motion. She thinks that if an announcement is made, it should be an informal call for voluntary conservation.

There was further discussion of operational options for the City of Newark to undertake at the reservoir. Mr. Jenner suggested that the drawn down condition of the Newark reservoir provided a valuable opportunity to inspect the lower levels of the inner banks and better determine the best path going forward. It was suggested that the operation of the Newark Reservoir was not pertinent to the discussion of whether the Governor should announce a drought watch.

John Barndt asks the council for a final vote. All 'ayes.' None opposed.

The motion agreed to take no action today with further consideration at the September 29, 2016, meeting and did not include any announcement by either the Secretary of DNREC or the Governor. However, individual water providers are free to make any announcement they deem necessary, however, without a resolution of the Council.

NEXT MEETING - John Barndt

The next council meeting is scheduled for Thursday, September 29, 2016, at 10:00 am at the Kent County Administration Building, Room 220.

ADJOURN

Meeting adjourned at 2:47 PM by John Barndt.

These minutes are not intended to be a detailed record. They are for the use of the Water Supply Coordinating Council members in supplementing their personal notes and recall of Council discussions and presentations and to provide information to Council members unable to attend. Minutes recorded and submitted by Heather A. Helmer.

Attendees are listed below alphabetically, last name listed first:

Barndt, John - DNREC, Division of Water
Barr, J. Kent - DRBC
Baxter, Stefanie - University of Delaware, DGS
Budischak, Valann - Delaware Nursery and Landscape Association
Cocke, William - DNREC, Division of Water
DiNunzio, Joseph - Artesian Water
Duffy, Sean - City of Wilmington
Finnicum, Larry - SUEZ (formally United Water)
Fleming, Lorraine - Delaware Nature Society
Glenn, Kelly - NAWC / Sussex Shores
Gray, Mary Ellen - Kent County

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Guyer, Jay - City of New Castle, Municipal Services Commission
Haggerty, George - New Castle County
Hallock, Ed - Division of Public Health, Office of Drinking Water
Heffron, Rich - DE State Chamber of Commerce
Holmes, Virgil - DNREC, Director, Division of Water
Homsey, Andrew - University of Delaware
Howatt, Robert - Delaware Public Service Commission
Hubbard, Thomas - SUEZ (formally United Water)
Jenner, Charles - Delaware Grounds Management Association
Leathers, Daniel - State Climatologist
Loper, Toni – Delaware Public Service Commission Analyst
Maucher, Andrea - Division of the Public Advocate
May, Thom - Delaware Health & Social Services, Division of Public Health
Scott Blaier - Department of Agriculture
Neilson, Kevin - Delaware Public Service Commission
Neimeister, Mark - City of Newark
Patone, Pamela - City of New Castle, Municipal Services Commission
Price, Barry - Artesian Water
Rudd, John - State Fire Marshal
Shannon, Sheila - Tidewater Utilities
Singer, Victor - Civic League for New Castle County
Taylor, Dian - Artesian Water

Northern Delaware Drought Advisory Guidelines

Reported by the Drought Advisory Guidelines Subcommittee (DAGS), which is composed of the Delaware Department of Natural Resources and Environmental Control, Delaware Geological Survey, and University of Delaware Water Resources Agency with input from the water purveyors and representatives from the landscaping industry. These drought operating guidelines are designed to provide guidance to the Delaware Water Supply Coordinating Council (WSCC) and the Governor's Drought Advisory Committee (GDAC). Responsibility for providing technical guidance for a move up to or down from Drought Watch is with the WSCC. Responsibility for providing technical guidance for a move up to or down from Drought Warning or Emergency is with the GDAC. Final declaration of drought advisories rests with the Governor.

Indicators	Drought Watch Voluntary Conservation	Drought Warning Voluntary Conservation	Drought Emergency Mandatory Restrictions	Status Sept. 18, 2016
Precipitation Wilmington Airport 12-month	-6.00" to -8.99"	-9.00" to -11.99"	>-12.00"	-2.39"
Precipitation Wilmington Airport 6-month	-3.00" to -4.50"	-4.50" to -6.00"	>-6.00"	-1.41"
Brandywine Creek (30-day moving avg)	85 mgd	70 mgd	48 mgd	72.6 mgd
White Clay Creek - Stanton (30-day moving avg)	42 mgd	37 mgd	31 mgd	32.1 mgd
White Clay Creek - Newark (30-day moving avg)	19 mgd	16 mgd	13 mgd	14.3 mgd
Well Db24-18	14 - 14.99 (fbls)	15 - 15.99 (fbls)	16 (fbls)	13.37 (fbls) (normal)
Water Conditions Index	4.0-5.0	3.0-3.99	<3.00	4.13
Chlorides	WCC ≤ 37 mgd for 5 consecutive days at SUEZ Stanton Intake	Cl > 250 ppm for 3 days at Christina River at Newport	Cl > 250 ppm for 3 days at UWD Stanton Intake	Monitoring 675 ppm 9/18/2016
Hoopes Reservoir (City of Wilmington)	-10 ft (68% capacity)	-12 ft (64% capacity)	-15 ft (57% capacity)	-3.8 ft (9/12/2016)
Newark Reservoir	- 10 ft (70% capacity)	-17 ft (52% capacity)	-27 ft (28% capacity)	-11.0 ft (9/16/2016)
Monitored				
Aquifer Storage and Recovery	Monitor Status	Monitor Status	Monitor Status	SUEZ: .102mg (9/6/2016) AWC: 55 mg (9/12/2016)
Octoraro Reservoir (Chester Water Authority)	Monitor Status	Monitor Status	Monitor Status	

Marsh Creek Reservoir	Monitor Status	Monitor Status	Monitor Status	PA DCNR releasing 7.8 mgd into Brandywine Creek
Chlorides on the Delaware River 9/15/2016	Monitor Status	Monitor Status	Monitor Status	Normal RM: 76 Current RM: 79
DRBC Lower Basin Drought Criteria	Monitor Status	Monitor Status	Monitor Status	
NYC DRB Reservoirs (DRBC 9/16/2016)	Monitor Status	Monitor Status	Monitor Status	Storage 187.5 bg or 64 bg above drought watch

fbls = feet below land surface
 mg = million gallons
 mgd = million gallons per day
 RM = River Mile
 bg = billion gallons

Delaware Geological Survey:
<http://www.dgs.udel.edu>

U.S. Geological Survey Streamflows:
<http://waterdata.usgs.gov/de/nwis/current/?type=flow>

Delaware River Basin Commission:
<http://www.state.nj.us/drbc>

Delaware Environmental Observing System
<http://www.deos.udel.edu>

Delaware Geological Survey

State of Delaware
University of Delaware • Delaware Geological Survey Building
Newark, Delaware 19716-7501



Kent County Hydrologic Conditions – September 18, 2016

PRECIPITATION

Dover – Running surplus/deficit

12-month: -3.59" 6-month: -1.99" 5-month: +0.14"

STREAMFLOW

St. Jones at Dover – 30-day moving average for August 20 through September 18

10.8 MGD Status: Normal

GROUNDWATER

Mc51-01a – September 2016

14.9 ft below land surface Status: Below Normal

Sussex County Hydrologic Conditions – September 18, 2016

PRECIPITATION

Georgetown - Running surplus/deficit

12-month: +3.05" 6-month: +0.77" 5-month: +0.42"

STREAMFLOW

Nanticoke River at Bridgeville - 30-day moving average for August 20 through September 18

17 MGD Status: Below Normal

GROUNDWATER

Qe44-01 – September 2016

11.2 ft below land surface Status: Below Normal

Northern New Castle County Comparison of Years 2007, 2012, and 2016

	12-mo Precip (NWS +Porter)			6-mo Precip (NWS +Porter)			Db24-18 (ft bis)			Index		
	2007	2012	2016	2007	2012	2016	2007	2012	2016	2007	2012	2016
Jan	7.35	12.25	0.87	4.89	14.14	-3.45	11.23	10.6	13.5	11.8	17.64	6.41
Feb	7.24	11.49	3.36	5.05	2.38	0.36	11.56	10.6	12.3	9.51	9.51	13.08
Mar	11.19	7.88	0.00	2.76	-2.57	-0.98	11.28	10.95	11.2	13.84	6.9	8.58
Apr	14.75	5.42	-1.73	4.64	-4.74	-2.65	10.16	11.45	11.41	17.8	6.12	6.83
May	13.96	4.35	3.95	0.50	-7.16	1.30	9.3	12.2	11.7	10.65	5.32	9.36
Jun	6.47	5.17	-4.77	1.55	-7.41	-0.87	10.43	12.7	11.5	9.28	4.75	6.42
Jul	4.08	4.82	-1.85	-0.81	-9.32	1.61	11.4	13.5	12.1	7.6	3.28	7.3
Aug	5.96	-6.17	-0.91	0.91	-8.55	-1.27	12.44	14.14	12.65	7.25	3.57	5.48
Sep	-0.12	-6.59	-2.39	-2.88	-4.03	-1.41	13.23	14.7	13.37	4.38	5.79	4.13
Oct	-0.05	-4.20	?	-4.69	0.54	?	14.03	15.24	?	6.09	10.75	?
Brandywine (mgd)												
	2007	2012	2016	WCC at Stanton (mgd)			WCC at Newark (mgd)					
Jan	355	485	241	211.7	119.6	Jan	101.3	53.2				
Feb	248	347	712	145.4	292.6	Feb	69.2	139.4				
Mar	639	301	352	119.4	134.8	Mar	58.5	60.7				
Apr	864	264	259	111.9	100.3	Apr	54.2	47.4				
May	399	247	310	88.5	144.2	May	42.4	60.9				
Jun	275	199	172	71	82.2	Jun	33.8	33.9				
Jul	213	101	160	42.5	91.2	Jul	25.1	31				
Aug	157	101	110	65.2	44.2	Aug	24.8	17.5				
Sep	80	159	73	65.6	41.6	Sep	20	17.5				
Oct	195	381	?	90.6	32.1	Oct	12.7	14.3				

Kent County Comparison of Years 2007, 2012, and 2016

	12-mo Precip (Dover)			6-mo Precip (Dover)			St Jones (mgd) - Dover			Mc51-01 (ft bls)				
	2007	2012	2016	2007	2012	2016	2007	2012	2016	2007	2012	2016		
Jan	-1.46	7.77	-5.98	0.11	10.74	-3.50	Jan	31.9	29.6	2007	11.3	10.9	2016	14.4
Feb	0.40	6.82	-3.69	4.77	-3.68	-0.65	Feb	23.5	56.6	2012	11.9	11.9	2016	12.9
Mar	3.66	5.08	-4.74	2.65	-5.94	-1.60	Mar	32.2	34.6	2016	11.8	12.2	2016	12.1
Apr	6.41	2.36	-6.05	3.52	-6.83	-5.39	Apr	18.5	17.6	2016	10	12.9	2016	12.7
May	6.30	1.32	-2.51	-2.40	-8.58	-3.23	May	10.1	42.3	2016	10.3	13.5	2016	12.6
Jun	3.47	0.72	-8.08	0.74	-11.84	-5.17	Jun	7	17.8	2016	12.1	13.8	2016	12.5
Jul	-1.39	-0.26	-4.38	-1.50	-11	-0.88	Jul	3.7	5.8	2016	13.4	14.5	2016	13.5
Aug	0.74	-14.90	-3.15	-4.03	-11.22	-2.50	Aug	3.7	3.7	2016	14.3	14.8	2016	14.4
Sep	-3.68	-14.81	-3.59	-6.33	-8.87	-1.99	Sep	1.5	5.7	2016	15	14.9	2016	14.9
Oct	-4.53	-8.04	?	-8.05	-1.21	?	Oct	7.5	44.2	2016	15.5	15	2016	?

Sussex County Comparison of Years 2007, 2012, and 2016

	12-mo Precip (Georgetown)			6-mo Precip (Georgetown)		
	2007	2012	2016	2007	2012	2016
Jan	-3.45	-6.79	-1.41	Jan	1.03	-0.27
Feb	-3.04	-6.17	0.91	Feb	-4.94	4.10
Mar	-0.19	-10.29	-1.49	Mar	-8.75	2.28
Apr	-0.99	-9.82	-1.07	Apr	-8.43	1.46
May	-1.51	-8.86	3.50	May	-8.55	4.68
Jun	-12.10	-9.23	1.65	Jun	-8.79	3.53
Jul	-15.33	-7.51	4.42	Jul	-8.54	4.69
Aug	-14.85	-12.83	4.10	Aug	-7.89	0.00
Sep	-20.45	-13.72	3.05	Sep	-4.97	0.77
Oct	-21.37	-7.36	?	Oct	1.07	?

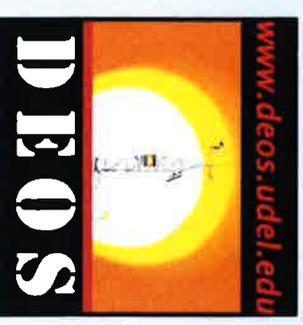
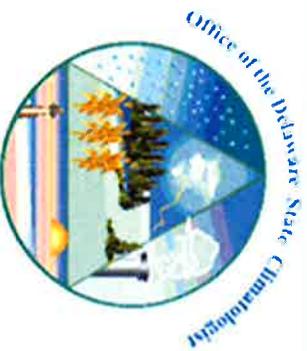
Nanticoke (mgd) - Bridgeville				Qe44-01 (ft bls)			
2007	2012	2016		2007	2012	2016	
	63.2	47.1	Jan	5.7	8.5	6.4	
	52.8	116.4	Feb	6	8.4	5.9	
	52.3	82.9	Mar	5.8	7.5	6.9	
	36.2	62.8	Apr	6.1	8.8	7.3	
	29.1	86.1	May	8	9	6.9	
	20.4	63.8	Jun	9.7	11.2	8	
	12	43.2	Jul	11.5	13.4	9.4	
	10.2	30.4	Aug	11.5	13.7	10.2	
	13	17	Sep	11.8	11	11.2	
	42.4	?	Oct	12.2	12.2	?	
	12.3						

Precipitation Forecast

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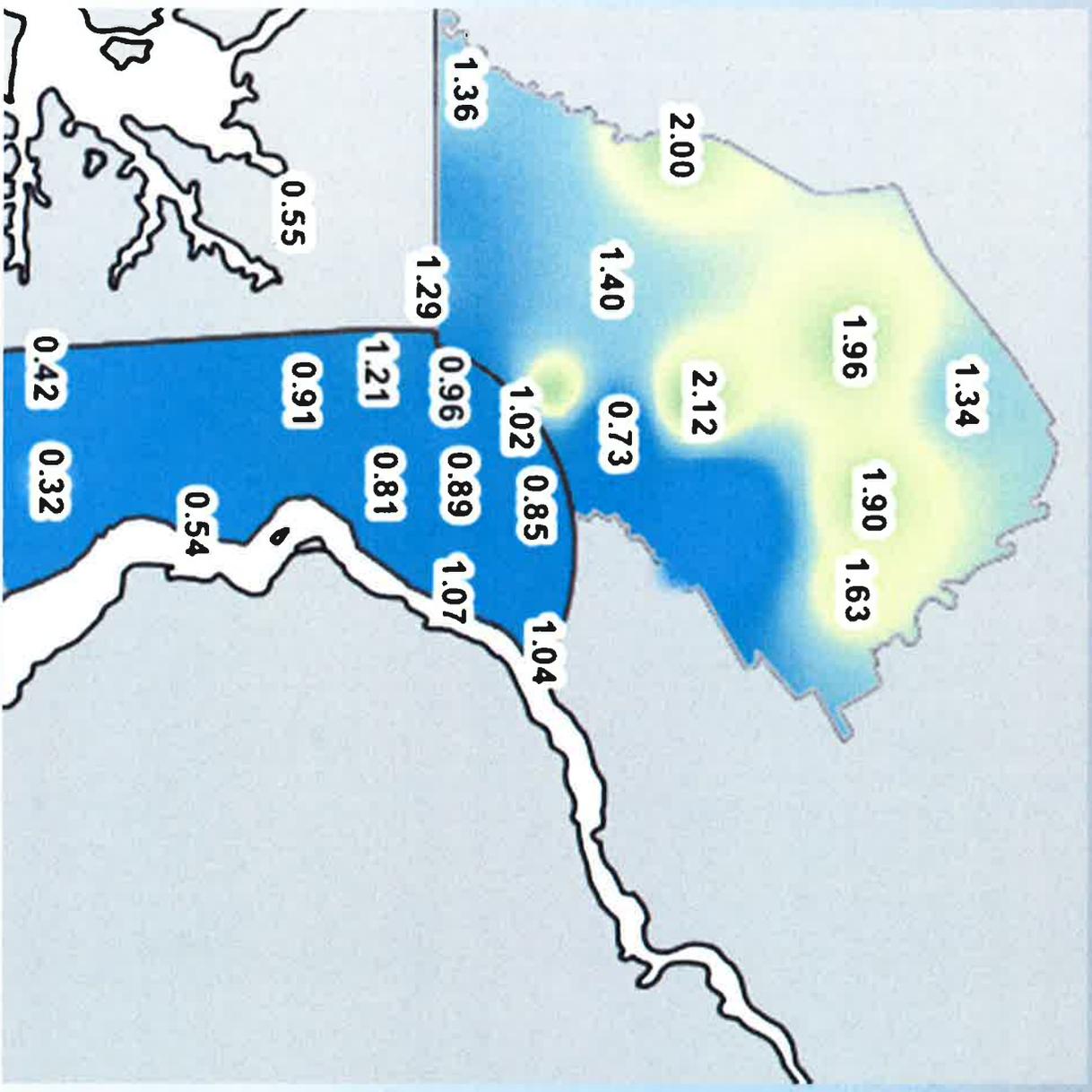
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Office of the Delaware State Climatologist

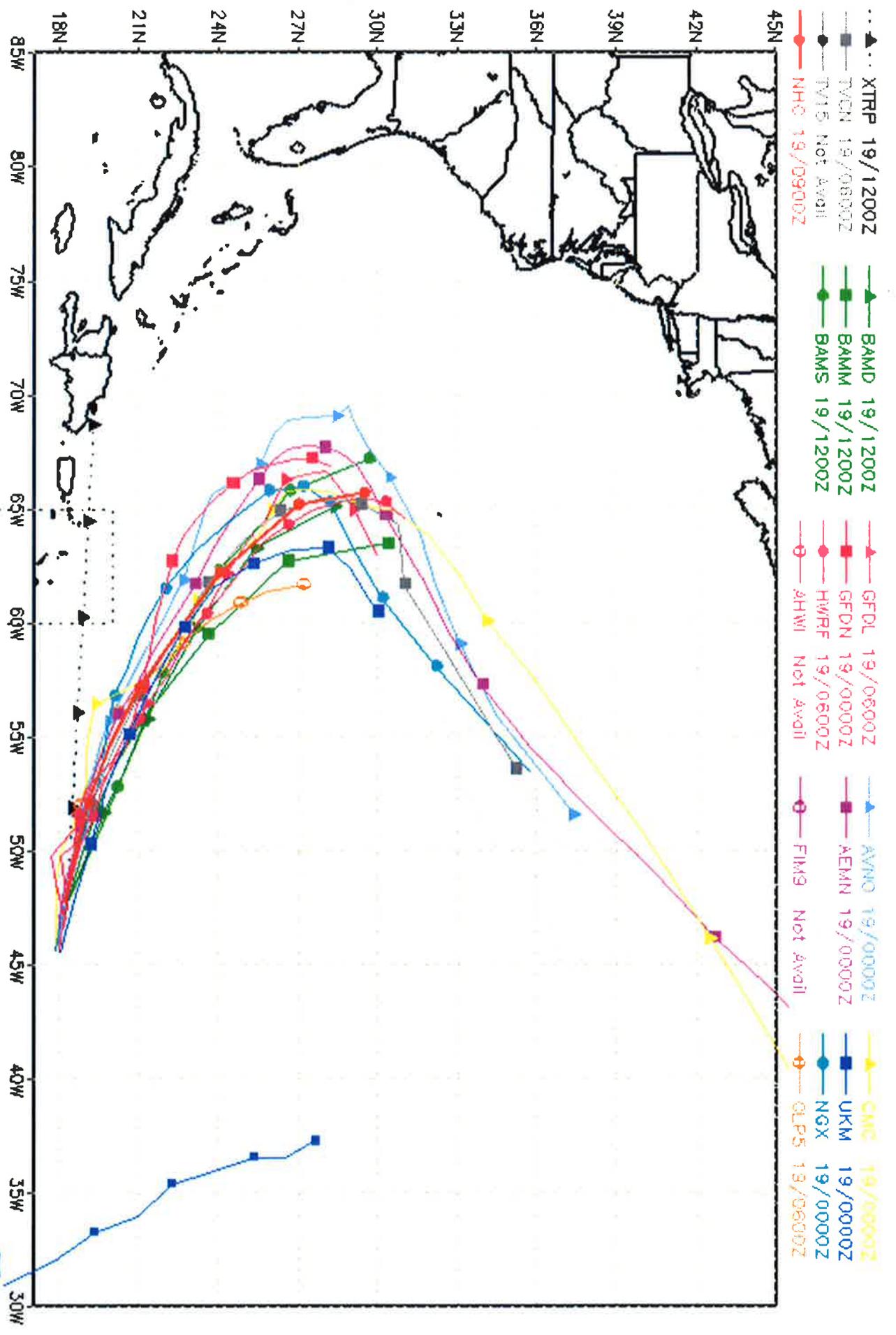


Today's Rainfall

24 – Hour Precipitation as of 11:00 am 9/19/16



Forecast 9/20/16 through 10/2/16



storm_12

weather@sfwmd.gov
19-Sep 08:51 EDT

NHC Advisories and County Emergency Management Statements supersede this product. This graphic should complement, not replace, NHC discussions. If anything on this graphic causes confusion, ignore the entire product. For full info, see <http://my.sfwmd.gov/sfwmd/common/images/weather/plots.html>

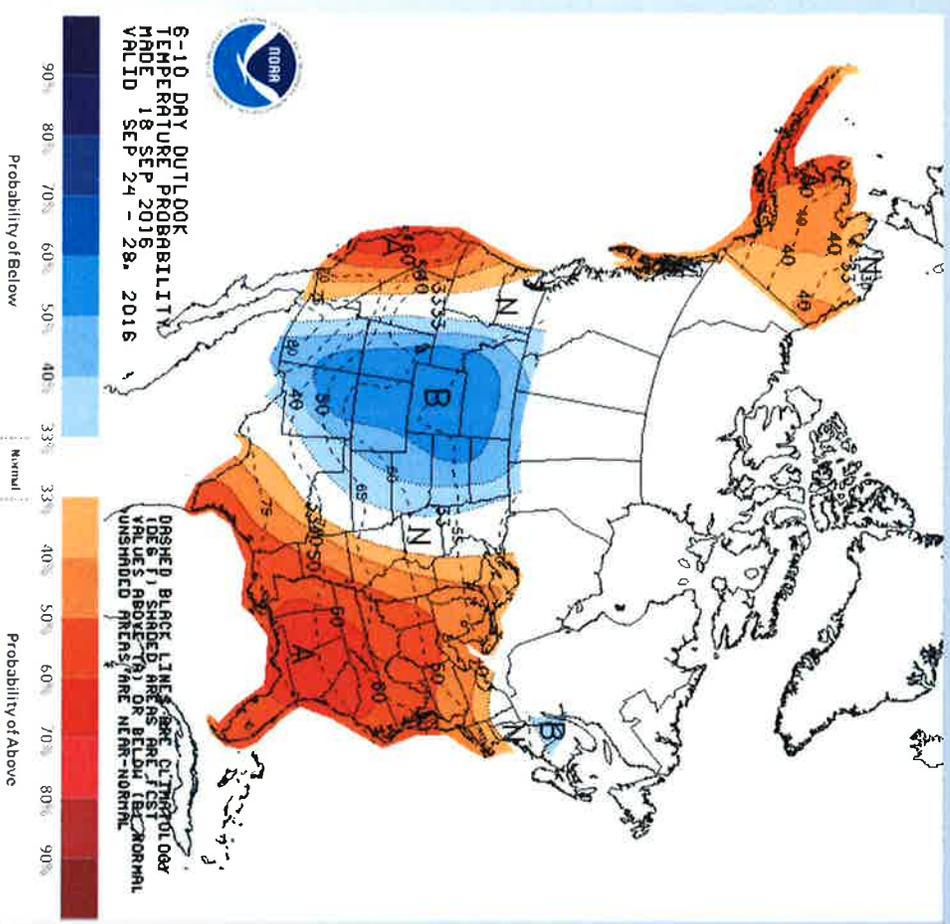


1 – 5 Day Outlook (valid September 19 – 23, 2016)

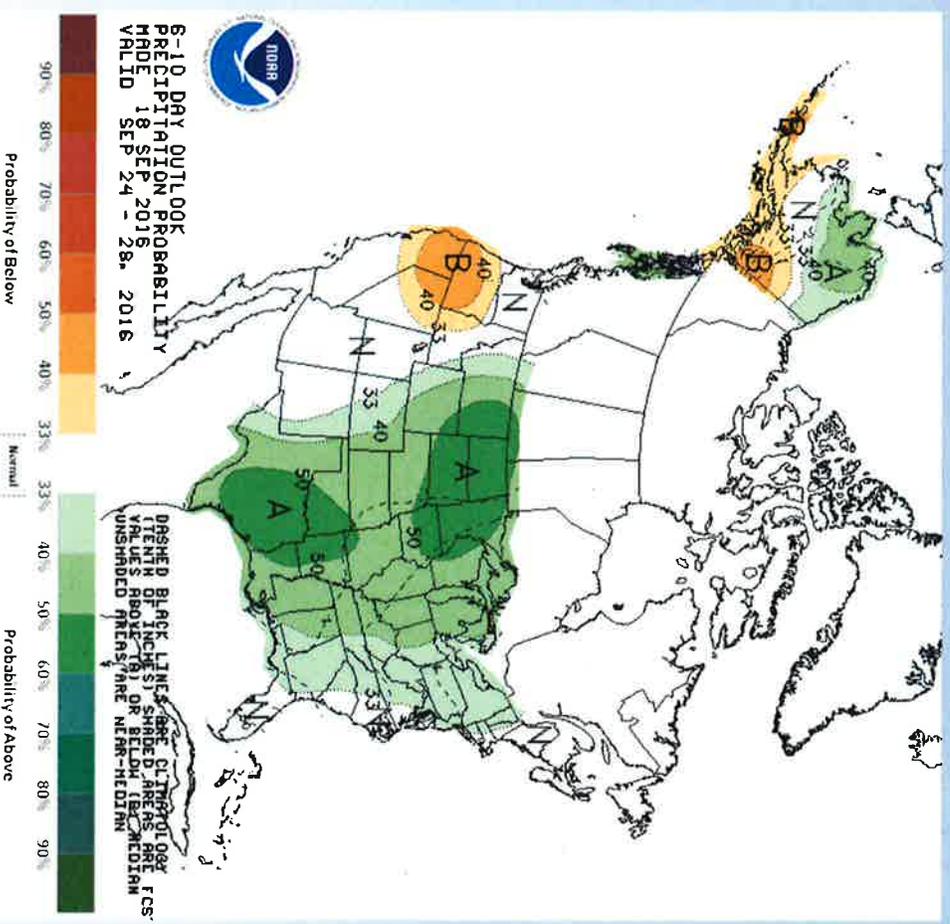
Today	Tonight	Tuesday	Tuesday Night	Wednesday	Wednesday Night	Thursday	Thursday Night	Friday
 100%	 60% → 20%	 30%	 30%	 Mostly Sunny	 Mostly Clear	 Sunny	 Partly Cloudy	 Mostly Sunny
Heavy Rain	Showers Likely, then Isolated Showers	Chance Showers	Chance Showers then Partly Cloudy					
High: 78 °F	Low: 68 °F	High: 82 °F	Low: 65 °F	High: 84 °F	Low: 62 °F	High: 83 °F	Low: 61 °F	High: 83 °F

Tuesday through Friday - dry, with above normal temperatures.

6 – 10 Day Outlook (valid September 24 – 28, 2016)

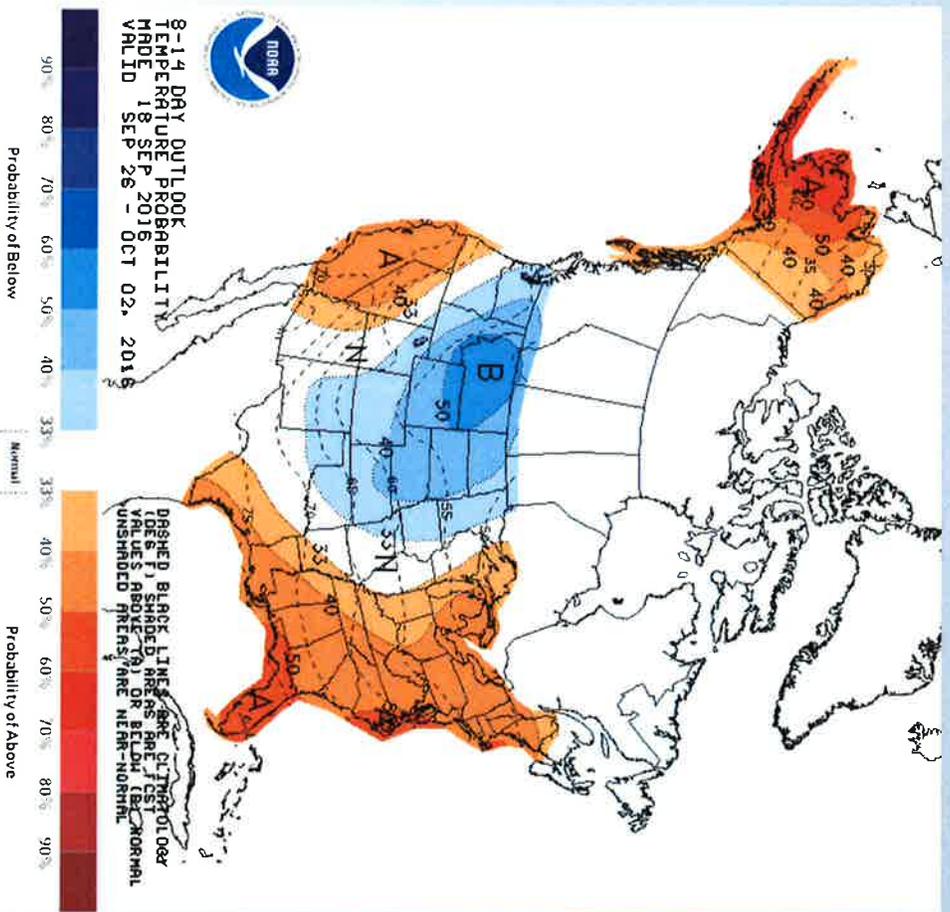


Temperature

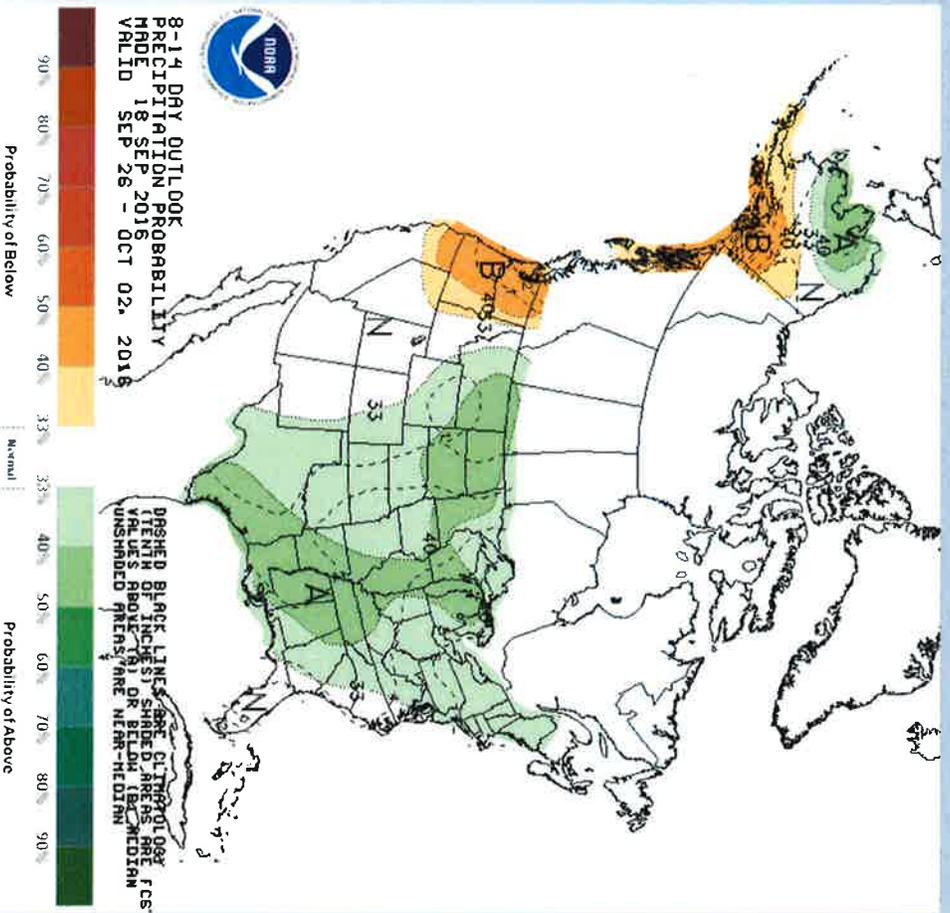


Precipitation

8 – 14 Day Outlook (valid September 26 – October 2, 2016)



Temperature



Precipitation



Questions?