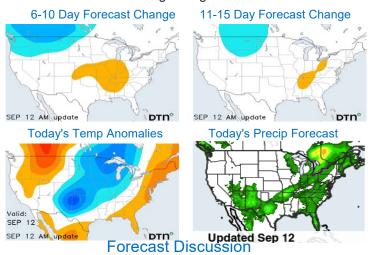
# Frontier Weather powered by DTn°

## **Morning Weather Summary**

**Updated 9/12/2023 AM** 

#### Weather Headlines

- ▶ Hurricane Lee could bring major impacts to New England and Atlantic Canada this weekend
- ➤ The forecast trended warmer across the Midwest/East and cooler in the Northwest during week two. Two other tropical threats are worth watching during week two

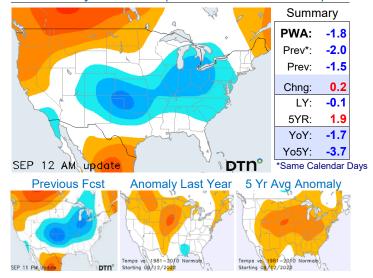


Hurricane Lee will bring major impacts somewhere from eastern MA through Atlantic Canada this weekend, especially Saturday. It will likely be a hurricane upon approach. There is still uncertainty with the track. Some guidance brings it closer to New England, which would be a larger impact. Some guidance tracks it into Nova Scotia, which would reduce the impact to New England. The general model trend was closer to New England with the 0Z runs. The DTN forecast is a landfall somewhere in Downeast Maine to the New Brunswick line for now. The largest impacts will be to the east of the storm's center where storm surge and onshore winds will be a major problem. outages and flooding will be significant impacts with Lee. The area from the northeastern Gulf of Mexico through the Southeast Coast will need to be watched during week two. A front will stall offshore and sometimes tropical systems can form along such a feature. Another system will have to be watched as it attempts to re-curve during the day 11-15 period.

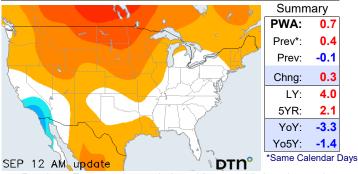
A fall air mass will drop through the Midwest through TX during the day 2-7 period. Significant relief to the summer heat is coming to TX. Eventually, the cooler air will reach the East Coast later this week. Meanwhile, above normal temperatures will develop along the West Coast. It will be warmest in the Pacific Northwest. A warming trend will take place across the Central US through the Midwest during the day 8-10 period where above normal temperatures will become widespread. Guidance trended warmer across the Midwest/Mid-South. At the same time, the GFS/GEFS came in cooler across the Northwest and temperatures had to be lowered.

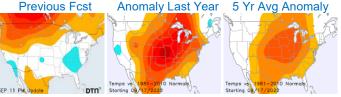
A warmer pattern will be likely across most of the US during the day 11-15 period, especially the MS Valley/Great Lakes region. Guidance came in warmer across most of the East and readings were raised. This is especially true of the GFS/GEFS. The ECMWF was already warm, but it still is suffering from a warm bias for the last 90 days overall, so the forecast was set a little warmer than the GEFS, but not quite as warm as the ECMWF. Guidance came in cooler across the Northwest, mostly early in

#### 2-5 Day Forecast (Wed 9/13 to Sat 9/16)

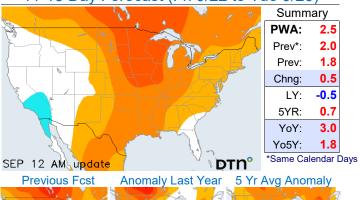


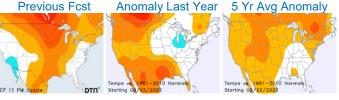
#### 6-10 Day Forecast (Sun 9/17 to Thu 9/21)

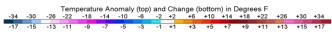




#### 11-15 Day Forecast (Fri 9/22 to Tue 9/26)



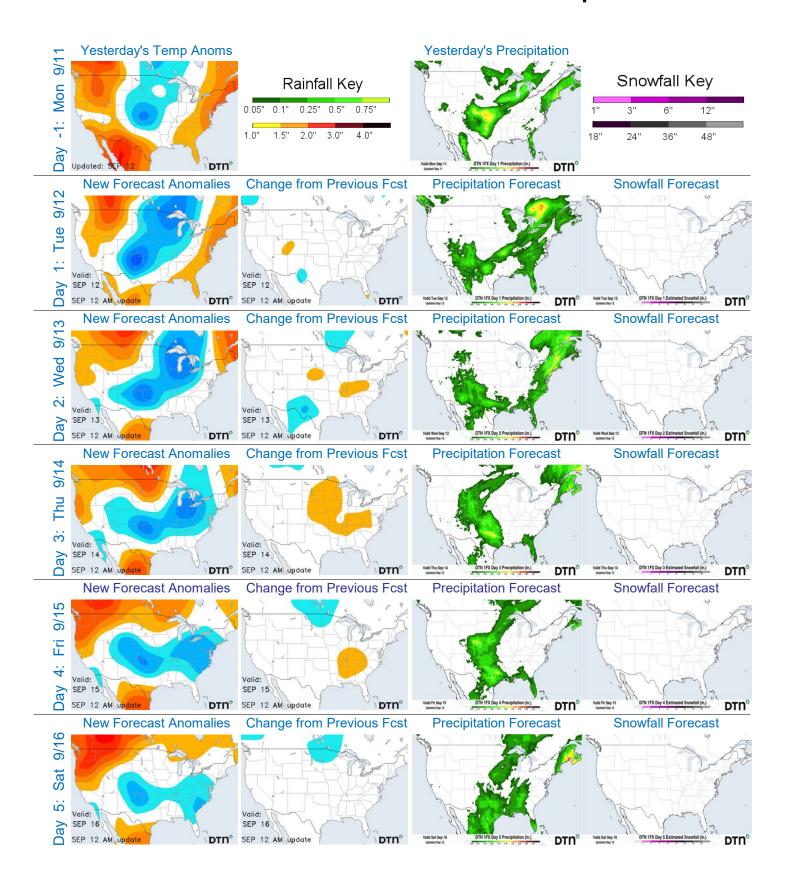




the period. © 2023 DTN. All rights reserved. Reproduction, distribution or disclosure is prohibited.

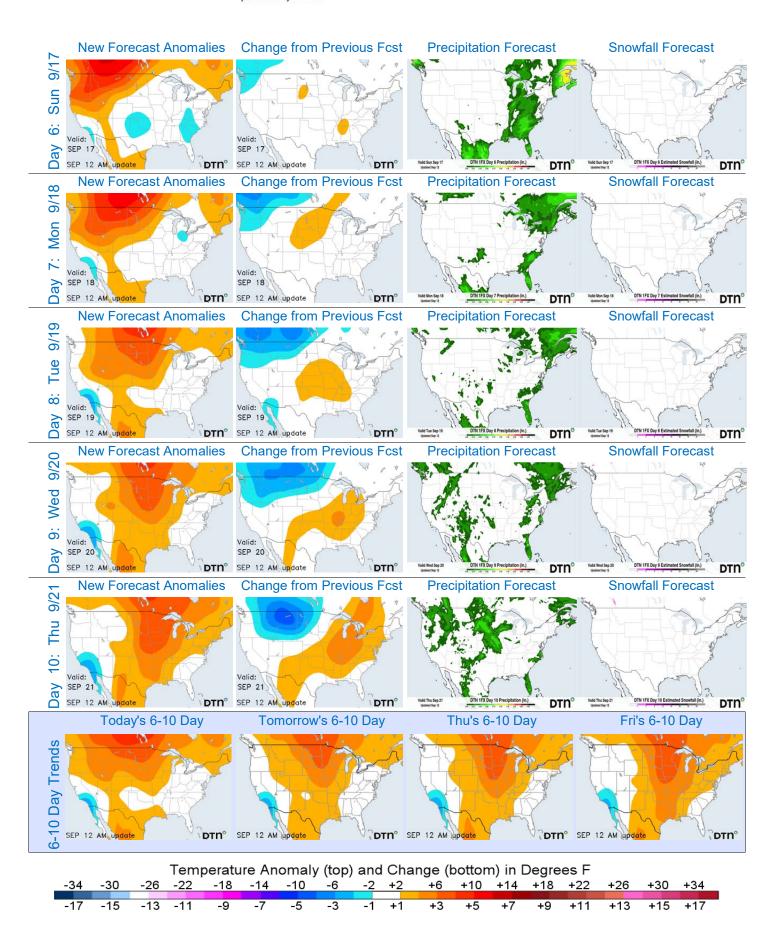


# Detailed 1-5 Day Outlook Updated 9/12/2023 AM



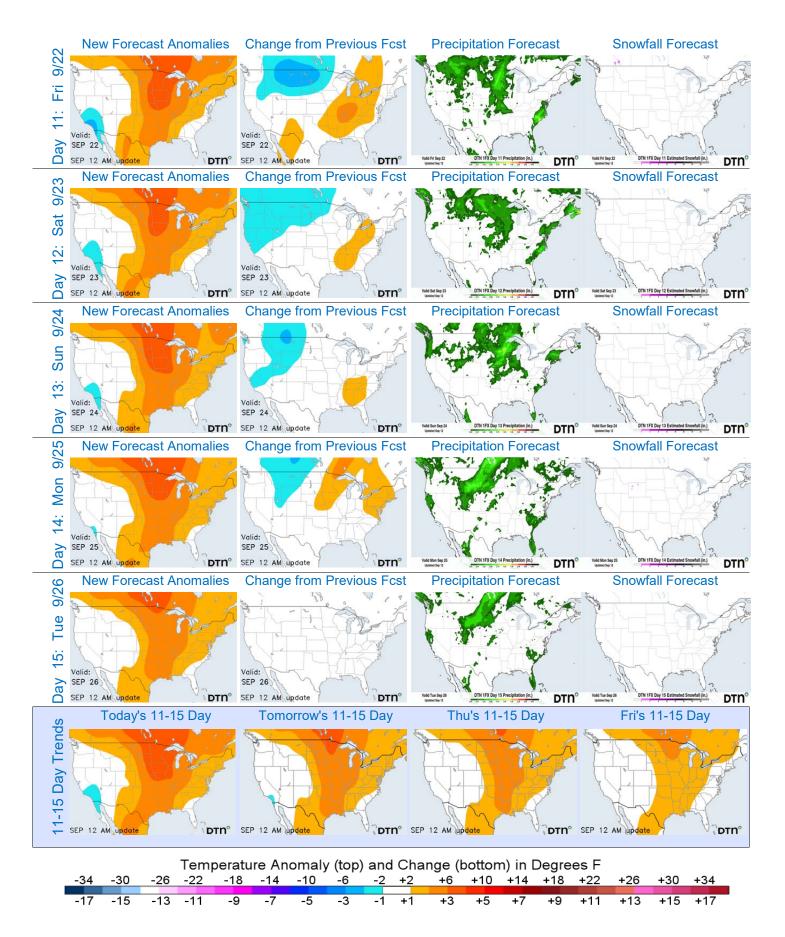
# Frontier Weather powered by DTn°

## **Detailed 6-10 Day Outlook**



# Frontier Weather powered by DTN°

### **Detailed 11-15 Day Outlook**

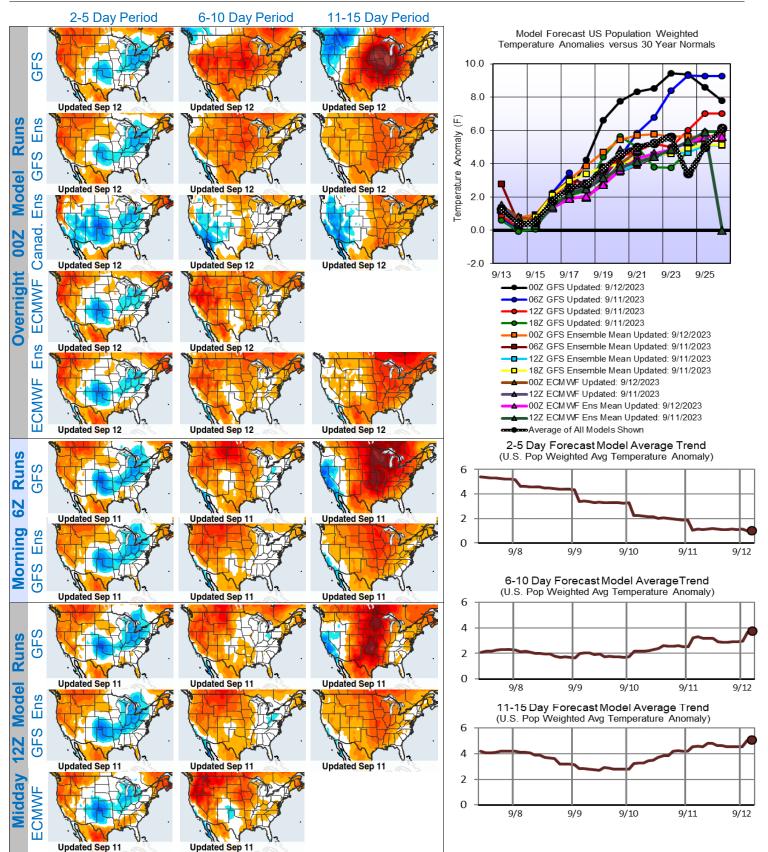




## Forecast Model Comparison

**Updated 9/12/2023 AM** 

#### **Forecast Model Comparison**

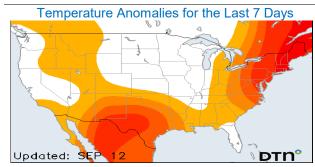




## Recent Weather and Climate

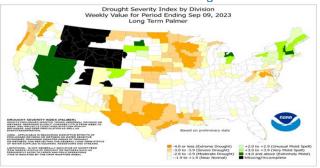
**Updated 9/12/2023 AM** 

#### **Recent Weather and Climate Conditions**

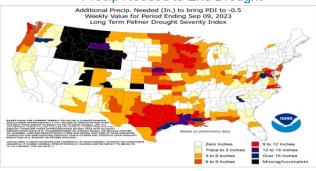




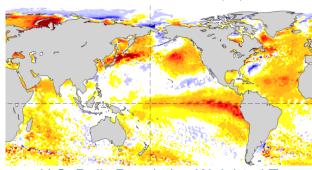
#### Current Palmer Drought Index



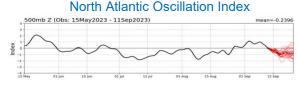




#### Current SST Anomalies (°C)







#### U.S. Daily Population Weighted Temperatures and Anomalies for the Last Year



#### Freeze/Snowfall Forecast

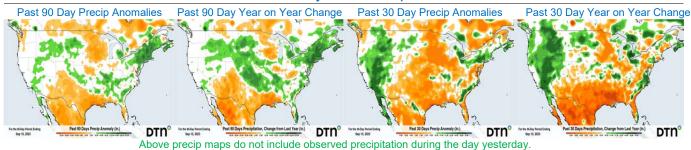




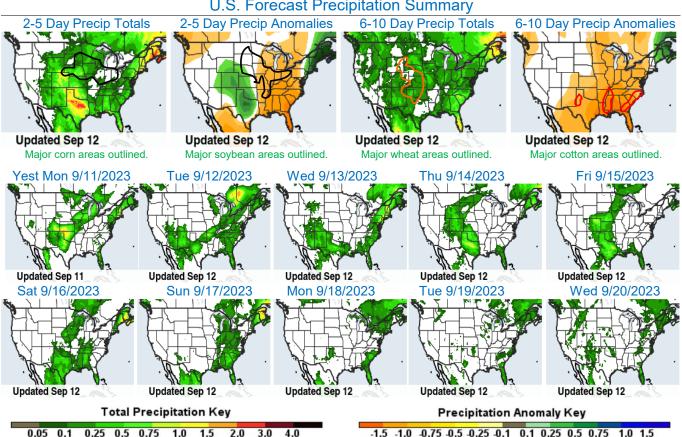
## **Precipitation Summary**

**Updated 9/12/2023 AM** 

#### Past 90 and 30 Day U.S. Precipitation Trends



U.S. Forecast Precipitation Summary



#### Next 7 Day Temperature & Precipitation Forecast Data

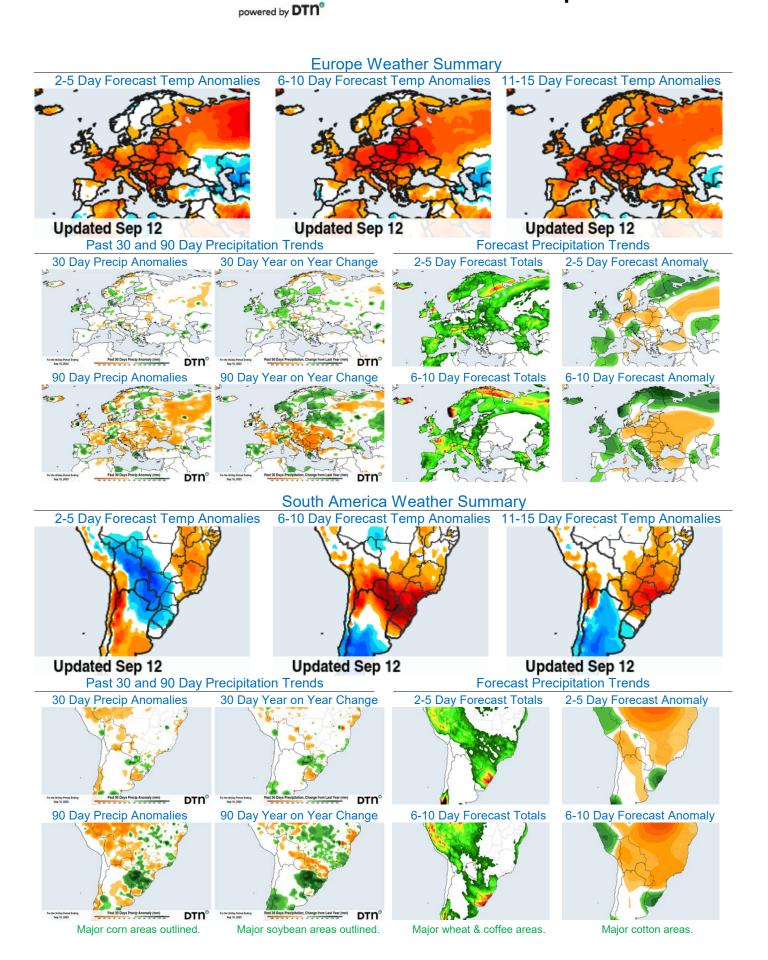
Region	Avg Hi/Lo*	Hi/Lo Anom	Highest**	Lowest**	Fcst Precip	Norm Precip	Precip Anom
Western Corn Belt	77°F/52°F	0/-1F	86°F	46°F	0.15"	0.63"	-0.48"
Eastern Corn Belt	74°F/53°F	-3/-2F	81°F	44°F	0.19"	0.68"	-0.49"
Western Soybeans	77°F/53°F	+1/0F	84°F	44°F	0.12"	0.65"	-0.53"
Eastern Soybeans	75°F/54°F	-4/-3F	85°F	44°F	0.18"	0.72"	-0.54"
Northern Wheat Belt	75°F/49°F	-2/+2F	86°F	38°F	0.69"	0.36"	+0.33"
Southern Wheat Belt	77°F/56°F	-7/-3F	85°F	50°F	1.08"	0.62"	+0.46"
Western SE Cotton	88°F/66°F	+1/+1F	95°F	60°F	0.31"	0.87"	-0.56"
Eastern SE Cotton	85°F/65°F	0/0F	92°F	55°F	0.48"	1.21"	-0.73"
Florida Citrus	91°F/73°F	+1/+1F	95°F	69°F	0.47"	1.47"	-1"

<sup>\*</sup>Avg Hi/Lo are the average forecast high and low temperatures for the next 7 days averaged over all cities in a region.

<sup>\*\*</sup>Highest and lowest forecast temperature is the absolute highest and lowest forecast temperature out of all cities in a given ag region

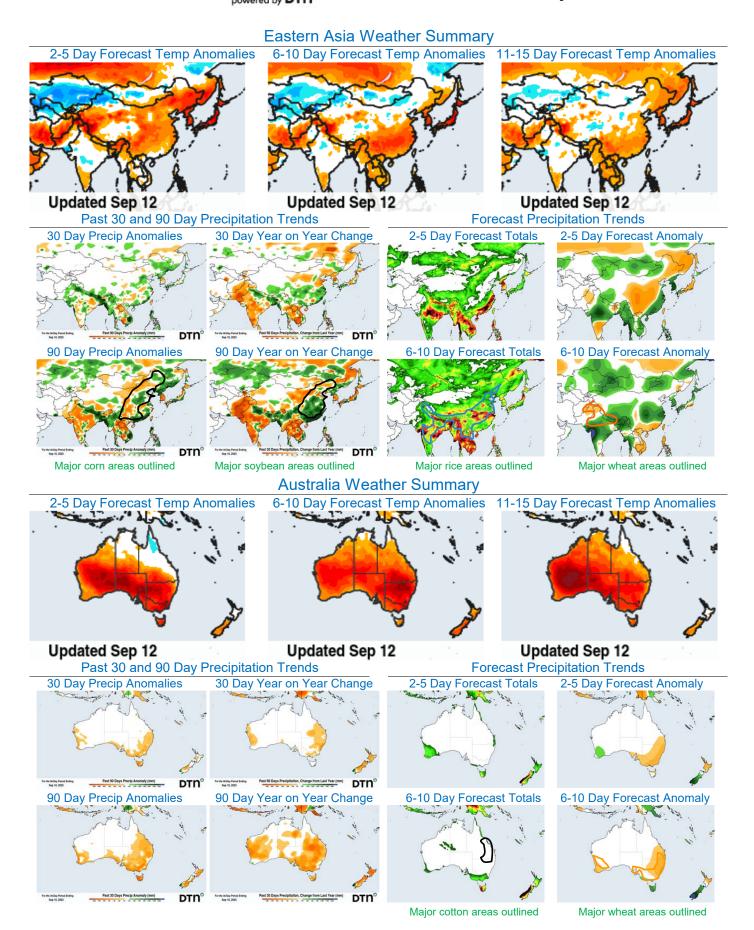
## Frontier Weather

### **International Outlook**



# Frontier Weather

### **International Outlook**





# Regional Average Temperatures

**Updated 9/12/2023 AM** 

### Regional Daily Temperature and Precipitation Averages

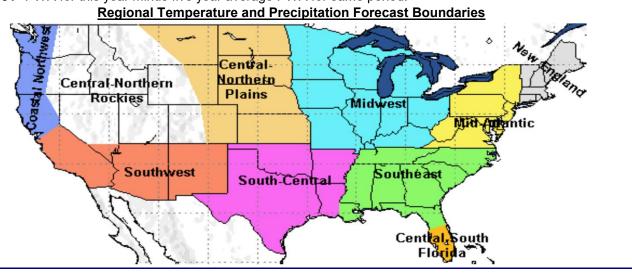
Consult Individual City Forecast Product for City Specific Temperature Forecasts

								401 101				0 Day				
77	Doto	0/7		st 5 Da		0/11	0/42	0/42	0/1/			0 Days		0/10	0/20	0/24
New England	Date	9/7	9/8 86	9/9	9/10	9/11	9/12 76	9/13	9/14 72	9/15	9/16	9/17	9/18	9/19 74	9/20 74	9/21 74
	Avg High			83	73	75				72		75 57	75 56			
	Avg Low	68	69	67	65	66	65	64	60	54	57	57		54	53	53
	Anomaly	14	12	10	5	6	7	5	3	0	1	4	4	3	3	3
	Avg Prcp	0.3	0.01	0	0	0.05	0.09	0.62	0.09	0	0.49	0.16	0.03	0.09	0.06	0
<u>:</u>	Weekday	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu
Mid-Atlantic	Avg High	92	86	82	80	82	81	74	73	73	76	78	77	77	78	79
Ψ	Avg Low	71	68	68	67	65	64	63	56	53	54	57	58	57	57	58
<u>-</u>	Anomaly	12	8	6	5	6	5	1	-3	-4	-1	1	2	2	2	4
Σ	Avg Prcp	0.41	0.01	0.01	0	0	0.09	0.4	0	0	0	0.02	0.11	0.04	0.02	0
Southeast	Date	9/7	9/8	9/9	9/10	9/11	9/12	9/13	9/14	9/15	9/16	9/17	9/18	9/19	9/20	9/21
	Avg High	94	89	87	89	92	88	87	85	85	85	85	86	87	87	88
the	Avg Low	72	69	68	69	68	70	69	67	65	64	65	65	65	66	66
S.	Anomaly	5	1	0	2	4	3	2	0	-1	-1	0	1	2	3	3
တ	Avg Prcp	0.08	0	0.09	0	0	0.06	0.1	0.05	0.03	0.02	0.11	0.09	0.05	0.02	0.01
σ.	Weekday	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu
Florida	Avg High	93	88	90	92	93	93	91	92	88	87	89	89	89	89	89
흔	Avg Low	75	71	71	75	74	75	76	75	75	74	73	74	74	74	73
	Anomaly	1	-3	-2	1	1	2	2	1	0	-1	-1	0	0	0	0
C-S	Avg Prcp	0.02	0	0.46	0	0	0.22	0.06	0.06	0.19	0.1	0.12	0.31	0.2	0.11	0.03
	Date	9/7	9/8	9/9	9/10	9/11	9/12	9/13	9/14	9/15	9/16	9/17	9/18	9/19	9/20	9/21
st		77	78	79	78	77	72	73	76	76	76	76	77	79	81	82
Midwest	Avg High		60		59	58	58	52	52	53	54	55	54	56	58	60
ξ	Avg Low	60 -2		60	0	0	-3	-5	-3	-3	-1	-1	0	3	5	7
2	Anomaly Avg Prcp		0	0	0.01	0.14	0.09	0.01	-3 0	0.01	0.02		0.02	0.01	0.01	0.03
												0.04				
SU	Weekday		Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu
Plains	Avg High	85	86	82	74	73	76	78	77	74	76	80	83	82	81	78
	Avg Low	52	55	55	53	51	49	51	54	53	51	51	52	53	53	53
S-S	Anomaly	2	4	3	-2	-3	-2	1	2	0	1	4	6	7	7	6
	Avg Prcp	0.02	0	0	0.01	0.13	0	0.01	0.11	0.17	0.03	0	0	0.02	0.02	0.04
tral	Date	9/7	9/8	9/9	9/10	9/11	9/12	9/13	9/14	9/15	9/16	9/17	9/18	9/19	9/20	9/21
uth-Central	Avg High	102	101	95	93	89	83	82	82	83	85	86	89	90	91	91
Ş	Avg Low	74	75	70	67	67	68	67	66	65	65	64	64	66	67	68
	Anomaly	9	9	4	2	0	-2	-3	-2	-2	-1	0	1	3	5	6
So	Avg Prcp	0	0	0	0	0	0.08	0.12	0.22	0.16	0.16	0.08	0.03	0.03	0.07	0.01
μ	Weekday		Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu
Southwest	Avg High	97	99	100	98	95	89	89	91	91	91	91	90	88	88	87
ţ	Avg Low	68	72	74	74	72	70	67	67	67	67	68	67	66	65	65
on	Anomaly	3	6	7	6	4	1	-1	0	1	1	2	1	0	0	0
(J)	Avg Prcp	0	0.3	0.31	0.7	0.31	0.08	0.04	0	0	0	0	0	0.02	0.1	0.02
Northwest	Date	9/7	9/8	9/9	9/10	9/11	9/12	9/13	9/14	9/15	9/16	9/17	9/18	9/19	9/20	9/21
	Avg High	79	83	86	85	81	79	82	86	89	88	84	80	78	77	77
≥	Avg Low	57	54	57	57	58	58	58	57	59	60	59	58	56	53	54
ort	Anomaly	0	1	4	4	3	2	4	5	8	8	6	4	2	1	1
Z	Avg Prcp	0	0.2	0.43	0.4	0.15	0.01	0	0	0	0	0	0.02	0.02	0.02	0.01
Rockie	Weekday		Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu
	Avg High	86	86	88	87	87	81	79	78	81	85	86	84	81	78	77
	Avg Low	55	56	55	58	57	57	56	53	53	53	56	57	55	52	51
	Anomaly	4	4	5	7	7	4	3	2	3	6	8	8	6	3	2
S-N	Anomaly Avg Prcp	0	0.04	0.09	0.28	0.12	0	0.02	0.06	0.01	0	0	0	0.02	0.05	0.08
U	Avy Picp	U	0.04	0.09	0.20	0.12	U	0.02	0.00	0.01	U	U	U	0.02	0.05	0.00



#### **Notes**

**PWA**=Population Weighted Average Temp Anomaly **YOY**=PWA for this year minus PWA for same period last year **YO5Y**=PWA for this year minus five year average PWA for same period.



#### © 2023 DTN. All rights reserved.

Any unauthorized reproduction, distribution or disclosure is prohibited and may result in account termination and/or prosecution. Information contained in this report is intended solely for use by the recipient and may not be further distributed without written approval from WDT, Inc.

#### Users of this report agree to the following:

THE REPORT is provided by WDT, INC "AS IS", and "AS AVAILABLE" WITHOUT WARRANTY OF ANY KIND TO USER OR ANY THIRD PARTY, INCLUDING, BUT NOT LIMITED TO, ANY EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OF THE REPORT; ACCURACY OF INFORMATIONAL CONTENT; NON-INFRINGEMENT; QUIET ENJOYMENT; AND TITLE. WDT, INC. SHALL NOT BE LIABLE FOR ANY LOSS, INJURY, CLAIM, LIABILITY OR DAMAGE OF ANY KIND RESULTING IN ANY WAY FROM THE USE OF THIS INFORMATION. THE USER FURTHER AGREES THAT WDT, INC. SHALL NOT BE LIABLE TO USER OR ANY THIRD PARTY FOR ANY LOSS OF PROFITS, LOSS OF USE, INTERRUPTION OF BUSINESS, OR ANY DIRECT, INDIRECT, SPECIAL, EXEMPLARY, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND WHETHER UNDER THIS AGREEMENT OR OTHERWISE, EVEN IF WDT, INC. WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR WAS GROSSLY NEGLIGENT. In any event, WDT, INC. shall never be liable for any amount in excess of the fees paid by the USER to WDT, INC. hereby. Additionally, WDT, INC. makes no warranty that the information provided in this report will be free from errors or omissions, or defects, human or mechanical.

#### **Contact Info:**

Phone: 918-252-7791

Email: stephen.strum@dtn.com