



July 2021 Climate Review

Presented By:

National Weather Service

Newport/Morehead City, NC

July 2021 Highlights



A shelf cloud encroaches on the Weather Forecast Office in Newport, NC on July 28.

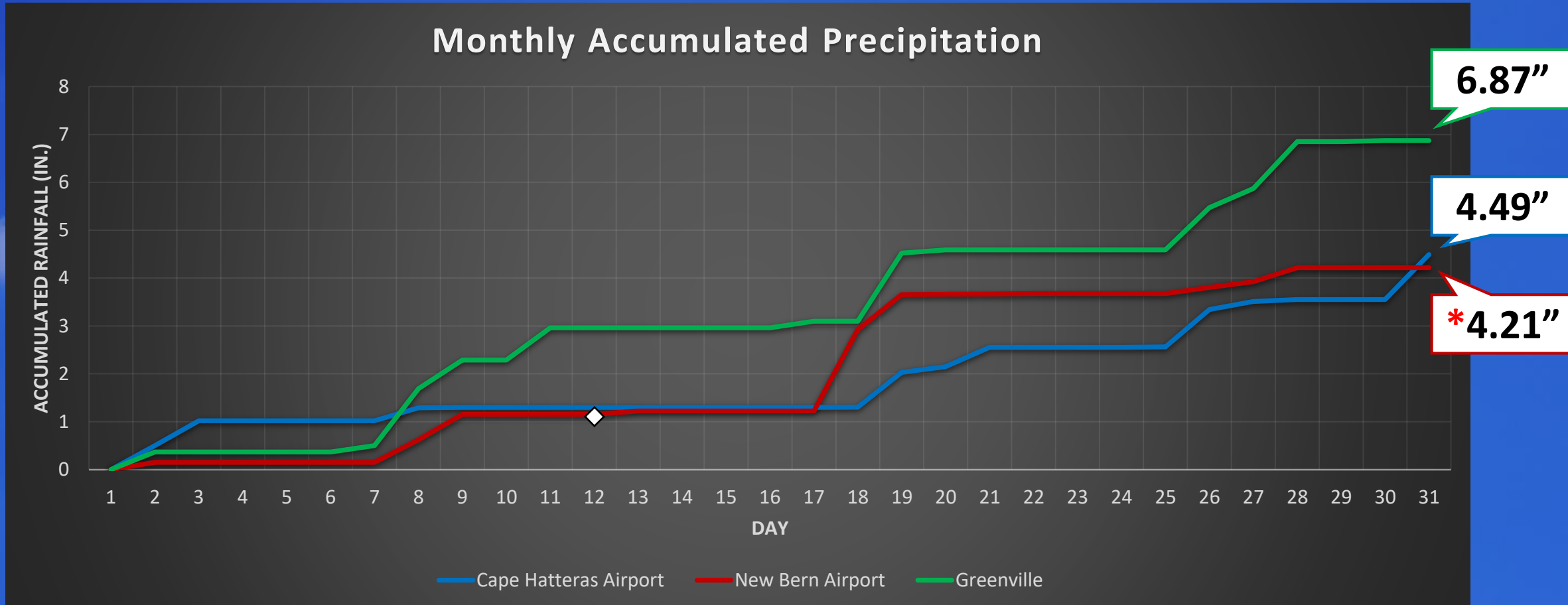
July 2021 in eastern NC featured Tropical Storm Elsa, which dropped 1-2” of rain and a couple tornadoes across the region. Despite the storm, coastal areas were 1-2” drier than normal.

Temperatures were slightly below average for the month, aided by a particularly cool period around Independence Day. Departures were generally 1-2 degrees below normal.

Monthly Rankings

	Average Temp	Total Rainfall
Hatteras	14 th Warmest	59 th Driest
New Bern	34 th Coolest	20 th Driest

July 2021 Rainfall

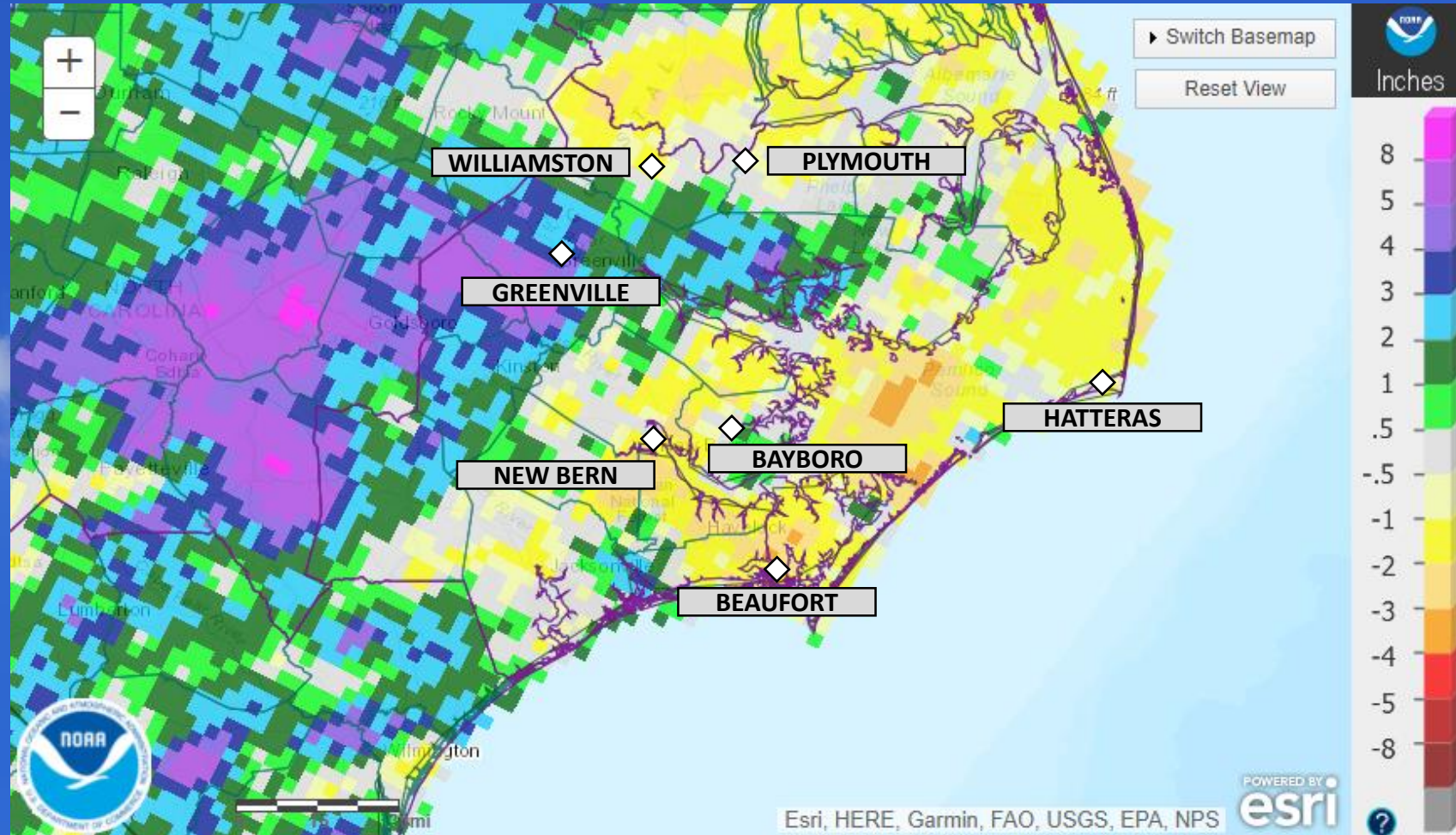


White diamonds denote missing 24-hour precipitation report. Asterisk denotes total with missing data.

July 2021 Rainfall vs. Climate Normal

	Observed (In.)	Normal	Difference
Beaufort	4.11	5.81	▼ 1.70
Hatteras	4.49	5.39	▼ 0.90
New Bern	4.21	6.26	▼ 2.05
Greenville	6.87	5.87	▲ 1.00
Williamston	5.00	5.75	▼ 0.75
Plymouth	5.40	5.70	▼ 0.30
Bayboro	5.54	6.79	▼ 1.25

Red sites have missing data



July 2021 Precipitation: Departure from Normal
 Analysis from the Advanced Hydrologic Prediction Service

Wettest and Driest Julys

	Cape Hatteras	Year Observed	New Bern	Year Observed
Wettest	20.31"	2018	16.05"	1937
2 nd Wettest	17.09"	1946	16.04"	1950
3 rd Wettest	13.59"	1933	13.88"	1975
4 th Wettest	12.50"	1929	12.24"	1963
5 th Wettest	12.10"	1924	12.23"	1946

	Cape Hatteras	Year Observed	New Bern	Year Observed
5 th Driest	1.40"	1942	3.04"	2011
4 th Driest	1.28"	2007	2.97"	2010
3 rd Driest	1.08"	1995	2.90"	1990
2 nd Driest	1.03"	1911	2.29"	1940
Driest	0.45"	1958	0.28"	1953

Average Temperatures: July 2021

	Average High	Normal High	Difference	Average Low	Normal Low	Difference
Beaufort	85.2	86.7	▼ 1.5	74.6	74.4	▲ 0.2
Hatteras	86.5	87.3	▼ 0.8	75.1	75.3	▼ 0.2
New Bern	88.4	89.6	▼ 1.2	70.6	71.2	▼ 0.6
Greenville	88.4	90.4	▼ 2.0	71.2	71.3	▼ 0.1
Kinston	88.5	90.6	▼ 2.1	70.4	71.4	▼ 1.0
Williamston	87.8	88.5	▼ 0.7	70.4	71.4	▼ 1.0
Plymouth	88.1	89.3	▼ 1.2	69.8	70.4	▼ 0.6
Bayboro	86.8	88.2	▼ 1.4	68.5	70.5	▼ 2.0

Red sites have missing data

Warmest and Coolest Julys By Avg. Temp

	Cape Hatteras	Year Observed	New Bern	Year Observed
Warmest	84.7°	2020	83.5°	1993
2 nd Warmest	82.2°	2011	83.1°	1991
3 rd Warmest	82.0°	2012	83.0°	1992
4 th Warmest	81.9°	1993	82.9°	2016
5 th Warmest	81.8°	2019	82.9°	2012

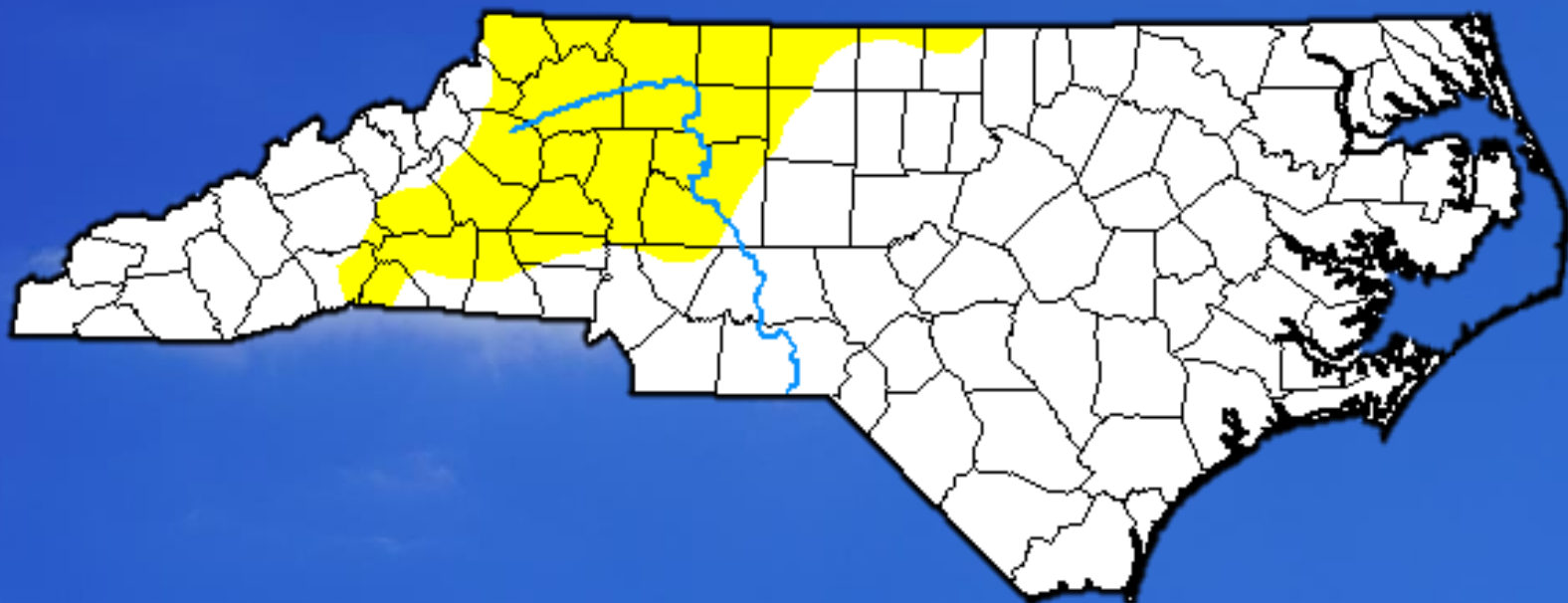
	Cape Hatteras	Year Observed	New Bern	Year Observed
5 th Coolest	76.6°	1946	77.5°	1967
4 th Coolest	76.4°	1933	77.3°	1975
3 rd Coolest	76.4°	1963	76.5°	1963
2 nd Coolest	75.8°	1920	76.3°	1965
Coolest	75.0°	1918	76.2°	2001

Temperature Extremes: July 2021

	Max High	Date Obs.	Min Low	Date Obs.
Beaufort	89	31 st	67	24 th
Hatteras	89	5 th , 14-16 th , 25 th , 31 st	68	3 rd , 5 th , 24 th
New Bern	93	15 th , 30 th	61	4 th
Greenville	93	16-17 th	63	4 th
Kinston	95	31 st	62	4 th
Williamston	93	16 th	62	4 th
Plymouth	94	31 st	62	4 th
Bayboro	92	19 th	59	4 th

Red sites have missing data

Drought Monitor: North Carolina



August 3, 2021

(Released Thursday, Aug. 5, 2021)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	81.81	18.19	0.00	0.00	0.00	0.00
Last Week <i>07-27-2021</i>	82.23	17.77	0.00	0.00	0.00	0.00
3 Months Ago <i>05-04-2021</i>	49.22	50.78	0.00	0.00	0.00	0.00
Start of Calendar Year <i>12-29-2020</i>	100.00	0.00	0.00	0.00	0.00	0.00
Start of Water Year <i>09-29-2020</i>	100.00	0.00	0.00	0.00	0.00	0.00
One Year Ago <i>08-04-2020</i>	100.00	0.00	0.00	0.00	0.00	0.00

Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

Richard Tinker
CPC/NOAA/NWS/NCEP

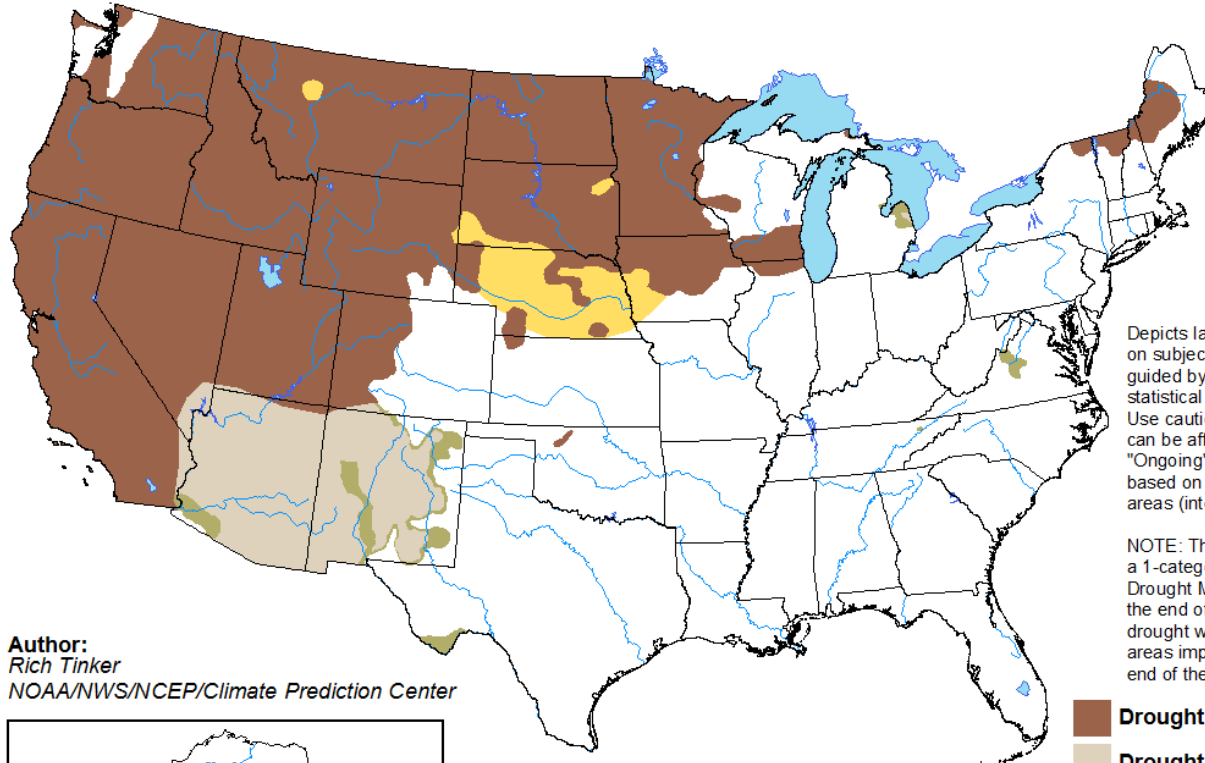


droughtmonitor.unl.edu

Monthly Drought Outlook

U.S. Monthly Drought Outlook Drought Tendency During the Valid Period

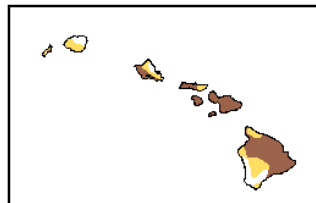
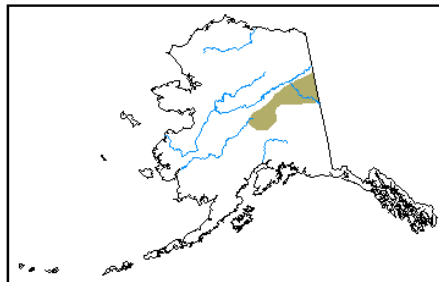
Valid for August 2021
Released July 31, 2021







Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:
Rich Tinker
NOAA/NWS/NCEP/Climate Prediction Center



-  Drought persists
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely



<http://go.usa.gov/3eZGd>