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Miami, FL 33165

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Costliest U.S. tropical cyclones tables updated

NOAA's National Centers for Environmental Information (NCEI) in consultation with the National Hurricane Center (NHC) has updated the listing of costliest tropical cyclones to strike the United States mainland. This listing was previously found in the NOAA memorandum *The Deadliest, Costliest and Most Intense U.S. Tropical Cyclones,* linked at https://www.nhc.noaa.gov/pdf/nws-nhc-6.pdf

These new tables listed below replace Tables 3a and 3b in the above document. The first table (3a), not adjusted for inflation, lists 36 tropical cyclones from 1900 to 2017 that caused at least 1 billion dollars in damage on the U.S. mainland, and another five striking U.S. territories or Hawaii. The second table (3b) accounts for inflation to 2017 dollars.

For all United States hurricanes, Katrina (2005) is the costliest storm on record. Hurricane Harvey (2017) ranks second, Hurricane Maria (2017) ranks third, Hurricane Sandy (2012) ranks fourth and Hurricane Irma (2017) ranks fifth. Hurricane Maria is the costliest hurricane on record to strike Puerto Rico and the U.S Virgin Islands.

The NCEI data set provides more loss information than previous damage figures used by NHC, including agriculture, individual payouts, and disaster money from the federal government to the respective states. In performing these disaster cost assessments, NCEI examined statistics from a wide variety of sources. Using the latest scientific methodology, it determined the estimated total costs of these events - that is, the costs in terms of dollars that would not have been incurred had the event not taken place. Insured and uninsured losses are included in damage estimates. Sources include the National Weather Service, the Federal Emergency Management Agency, U.S. Department of Agriculture, National Interagency Fire Center, U.S. Army Corps of Engineers, individual state emergency management agencies, state and regional climate centers, media reports, and insurance industry estimates.

Additional information on the methodology is at https://www.ncdc.noaa.gov/billions/

Contact: NHC Public Affairs – nhc.public.affairs@noaa.gov

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Table 3a. Mainland United States tropical cyclones causing at least 1 billion dollars of damage, 1900-2017, (not adjusted for inflation).

RANK	TROPICAL CYCLONE	YEAR	CATEGORY	DAMAGE (U.S.)
1	*KATRINA* (SE FL, LA, MS)	2005	3	$125,000,000,000
1	*HARVEY (TX, LA)*	2017	4	$125,000,000,000
4	*SANDY* (Mid-Atlantic & NE US)	2012	1	65,000,000,000
5	*IRMA* (FL)	2017	4	50,000,000,000
6	*IKE (TX, LA)*	2008	2	30,000,000,000
7	*ANDREW* (SE FL/LA)	1992	5	27,000,000,000
8	*IVAN* (AL/NW FL)	2004	3	20,500,000,000
9	*WILMA* (S FL)	2005	3	19,000,000,000
10	*RITA* (SW LA, N TX)	2005	3	18,500,000,000
11	*CHARLEY* (SW FL)	2004	4	16,000,000,000
12	*IRENE* (Mid-Atlantic & NE US)	2011	1	13,500,000,000
13	*MATTHEW* (SE US)	2016	1	10,000,000,000
14	*FRANCES* (FL)	2004	2	9,800,000,000
15	*ALLISON* (N TX)	2001	TS	8,500,000,000
16	*JEANNE* (FL)	2004	3	7,500,000,000
17	*HUGO* (SC)	1989	4	7,000,000,000
18	*FLOYD* (Mid-Atlantic & NE U.S.)	1999	2	6,500,000,000
19	*GUSTAV* (LA)	2008	2	6,000,000,000
20	*ISABEL* (Mid-Atlantic)	2003	2	5,500,000,000
21	*FRAN* (NC)	1996	3	5,000,000,000
22	*OPAL* (NW FL)	1995	3	4,700,000,000
25	*ALICIA (N TX)*	1983	3	3,000,000,000
26	*ISAAC* (LA)	2012	1	2,800,000,000
27	*GEORGES* (FL Keys, MS, AL)	1998	2	2,500,000,000
27	*DENNIS (NW FL)*	2005	3	2,500,000,000
29	*AGNES (FL/NE U.S.)*	1972	1	2,100,000,000
32	*FREDERIC (AL/MS)*	1979	3	1,700,000,000
33	*BOB (NC, NE U.S)*	1991	2	1,500,000,000
33	*JUAN (LA)*	1985	1	1,500,000,000
35	*CAMILLE (MS/SE LA/VA)*	1969	5	1,420,700,000
36	*BETSY (SE FL/SE LA)*	1965	3	1,420,500,000
37	*ELENA (MS/AL/NW FL)*	1985	3	1,300,000,000
37	*DOLLY* (S TX)	2008	1	1,300,000,000
39	*LILI* (SC LA)	2002	1	1,100,000,000
40	*ALBERTO* (AL, GA)	1994	TS	1,030,000,000
41	*BONNIE* (Mid-Atlantic)	1998	2	1,000,000,000
ADDENDUM				
3	*MARIA* (PR, USVI)	2017	4	90,000,000,000
23	*GEORGES* (USVI,PR)	1998	3	3,500,000,000
24	*INIKI* (Kauai, HI)	1992	4	3,100,000,000
29	*MARILYN* (USVI, PR)	1995	2	2,100,000,000
31	*HUGO* (USVI, PR)	1989	4	2,000,000,000

Table 3b. Costliest mainland United States tropical cyclones, 1900-2017, after accounting for inflation to 2017 dollars.

RANK	TROPICAL CYCLONE	YEAR	CATEGORY	DAMAGE (U.S.)
1	*KATRINA* (SE FL, LA, MS)	2005	3	$160,000,000,000
2	*HARVEY (TX, LA)*	2017	4	$125,000,000,000
4	*SANDY* (Mid-Atlantic & NE US)	2012	1	70,200,000,000
5	*IRMA* (FL)	2017	4	50,000,000,000
6	*ANDREW* (SE FL/LA)	1992	5	47,790,000,000
7	*IKE (TX, LA)*	2008	2	34,800,000,000
8	*IVAN* (AL/NW FL)	2004	3	27,060,000,000
9	*WILMA* (S FL)	2005	3	24,320,000,000
10	*RITA* (SW LA, N TX)	2005	3	23,680,000,000
11	*CHARLEY* (SW FL)	2004	4	21,120,000,000
12	*IRENE* (Mid-Atlantic & NE US)	2011	1	14,985,000,000
13	*HUGO* (SC)	1989	4	14,070,000,000
14	*FRANCES* (FL)	2004	2	12,936,000,000
15	*AGNES (FL/NE U.S.)*	1972	1	12,516,000,000
16	*ALLISON* (N TX)	2001	TS	11,815,000,000
17	*BETSY (SE FL/SE LA)*	1965	3	11,152,000,000
18	*MATTHEW* (SE US)	2016	1	10,300,000,000
19	*JEANNE* (FL)	2004	3	9,900,000,000
20	*CAMILLE (MS/SE LA/VA)*	1969	5	9,776,000,000
21	*FLOYD* (Mid-Atlantic & NE U.S.)	1999	2	9,620,000,000
22	*FRAN* (NC)	1996	3	7,900,000,000
23	*DIANE (NC)*	1955	1	7,630,000,000
24	*OPAL* (NW FL)	1995	3	7,614,000,000
25	*ALICIA (N TX)*	1983	3	7,470,000,000
26	*ISABEL* (Mid-Atlantic)	2003	2	7,370,000,000
27	*GUSTAV* (LA)	2008	2	6,960,000,000
28	*CELIA* (TX)	1970	3	6,026,000,000
29	*FREDERIC (AL/MS)*	1979	3	5,712,000,000
32	*LONG ISLAND EXPRESS (NE US)*	1938	3	5,279,000,000
33	*NC/VA 1944* (Mid-Atlantic)	1944	3	4,927,000,000
34	*CAROL (NE US)*	1954	3	4,198,000,000
36	*GEORGES* (FL Keys, MS, AL)	1998	2	3,775,000,000
38	*DONNA (FL, Eastern US)*	1960	4	3,235,000,000
39	*DENNIS (NW FL)*	2005	3	3,200,000,000
40	*ISAAC* (LA)	2012	1	3,024,000,000
41	*ELENA (MS/AL/NW FL)*	1985	3	3,003,000,000
ADDENDUM				
3	*MARIA* (PR, USVI)	2017	4	90,000,000,000
30	*INIKI* (Kauai, HI)	1992	4	5,487,000,000
31	*GEORGES* (USVI,PR)	1998	3	5,285,000,000
35	*HUGO* (USVI, PR)	1989	4	4,020,000,000
37	*MARILYN* (USVI, PR)	1995	2	3,402,000,000