Using Aircraft Diversions to Determine the Most Impactful Weather at Airports

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“No matter what time storms move through the northeast, anticipating diversion risk is critical to an airline. While diversions can never be completely avoided – especially in a complex environment like the New York airspace – having predictive information for diversion risk allows us to make smart fueling decisions and handle preparations and contingency crew plans that can greatly mitigate customer and economic impacts when they do happen.”

-Tom Lloyd, Director System Operations, Strategy and Improvement at JetBlue Airways

As the volume of air traffic operations at major US airports increases, significant weather events have an increasing effect on safety, commerce, and the overall operational efficiency of the National Airspace System (NAS). In addition, each airport is uniquely impacted by weather phenomena making efficient planning all the more difficult. This study examines the worst (highest number of) diversion days at major U.S. airports to determine the weather factor at fault. The top twenty of these days were analyzed for each airport using historical FAA Operations and Performance Data from 2013 to 2022. Unsurprisingly thunderstorms in general are the greatest cause of high diversion days; however notable and valuable differences are observed at many airports. Additional analysis was done for the DC and NY Metros (IAD, DCA, BWI, JFK, LGA, EWR, HPN and TEB). This included finding the most impactful thunderstorm types (i.e. linear, single-cell, clusters), storm location relative to the terminal, storm timing, etc. This information, much like knowing the thresholds for how winter weather can impact a community, can be invaluable in the hands of a forecaster, FAA decision maker, and airline personnel determining whether or not a high impact event is in store for an airport.

High Impact Diversion Breakdown per Airport (based on the Top 20 highest diversion days from 2013-22) *Preliminary*

Rank by Diversions	Airport	Total Diversions	Diversion Cause			
			Thunderstorms	Winter Weather	CIG/VIS	OTHER
1	DFW	1,880	96%		4%	
2	ORD	1,737	89%	9%	2%	
3	ATL	1,611	86%			Wind & Hurricane (14%)
4	IAH	1,270	91%		9%	
5	DEN	1,116	86%		14%	
6	LGA	999	44%	15%	40%	
7	EWR	983	100%			
8	MIA	930	95%		5%	
9	MDW	902	45%	25%	31%	
10	JFK	879	48%	35%	17%	
11	MSP	795	75%	17%	8%	
12	MCO	788	100%			
13	PHX	773	86%		14%	BLDU a factor (40%)
14	CLT	753	96%			Hurricane (4%)
15	DCA	706	51%		41% (Cig/S wind)	Fog & Snow (8%)
16	DTW	630	56%	33%	26%	
17	HPN	624	9%		66%	TS w/ Fog (25%)
18	TEB	616	34%	29%	37%	
19	SLC	612	28%	23%	49%	
20	SEA	560	10%	18%	73%	
21	SAN	507			93%	Wind (7%)
22	PHL	503	36%	23%	41%	
23	LAS	491	77%			BLDU (18%), RA Strong Wind (5%)
24	IAD	485	68%	10%	22%	
25	HOU	470	100%			
26	MEM	462	94%	6%		Occurred Overnight (39%)
27	BWI	451	92%	4%	4%	
28	BOS	395	40%	19% (fog a factor)	41%	
29	LAX	357	20%		80%	
30	TPA	345	100%			
31	MCI	332	81%	19%		Occurred Overnight (23%)
32	BNA	312	96%		4%	
33	MSY	308	53%	5%	42%	
34	SFO	299	10%		90%	
35	IND	274	85%		15%	Occurred Overnight (19%)
36	STL	262	87%	13%		
37	RDU	214	72%	4%	24%	
38	SDF	208	88%	12%		Occurred Overnight (87%)
39	CLE	183	33%	67%		Wind a factor (35%)
40	PIT	134	40%	4%	56%	
41	JAX	115	94%		6%	
42	ANC	62		58%	42%	

NY Metro Diversions by Cause 2013-2022

Each table represents the top 20 highest diversion days over the period

EWR			
Diversions by Cause	TS		
	983		
	100%		

HPN			
Diversions by Cause	TS	Visibility/Low CIGS	TS & Visibility/Low CIGS
	57	409	158
	9%	66%	25%

JFK			
Diversions by Cause	TS	Visibility/Low CIGS	Winter Weather
	424	149	306
	48%	17%	35%

TEB			
Diversions by Cause	TS	Visibility/Low CIGS	Winter Weather
	211	227	178
	34%	37%	29%

LGA			
Diversions by Cause	TS	Visibility/Low CIGS	Winter Weather
	443	404	152
	44%	40%	15%

Preliminary Data

DC Metro & PHL Diversions by Cause 2013-2022

Each table represents the top 20 highest diversion days over the period

PHL			
Diversions by Cause	TS	Visibility/Low CIGS	Winter Weather
	180	205	118
	36%	41%	23%

IAD			
Diversions by Cause	TS	Visibility/Low CIGS	Winter Weather
	328	109	48
	68%	22%	10%

DCA			
Diversions by Cause	TS	Low CIG with South Wind	Other
	361	292	53
	51%	41%	8%

BWI			
Diversions by Cause	TS	Visibility/Low CIGS	Winter Weather
	415	16	20
	92%	4%	4%

Preliminary Data

Diversions by Cause 2013-2022

Preliminary Data

Each table represents the top 20 highest diversion days for the period 2013-2022

Aircraft Incidents and all other non-weather related events are not used for calculation in the tables

DCA			
Diversions by Cause	TS	CIG / S Wind	Other
	361	292	53
	51%	41%	8%
Rank	Date	Number of Diversions	Wx
1	2/13/2020	43	CIG/S Wind
2	4/6/2017	41	TS
3	12/9/2019	38	CIG/S Wind
3	12/27/2015	38	CIG/S Wind
5	2/3/2016	37	CIG/S Wind
6	1/9/2018	36	CIG/S Wind
6	9/7/2018	36	TS
8	1/12/2018	34	CIG/S Wind
9	7/30/2015	33	TS
9	10/9/2015	33	TS
11	6/13/2014	32	TS
11	10/15/2018	32	CIG/S Wind
13	5/2/2019	28	TS
14	12/6/2015	27	FG
15	11/2/2018	26	TS
15	1/13/2019	26	SN
17	5/22/2018	25	TS then CIG/S Wind
17	2/24/2016	25	TS
19	8/21/2018	24	TS
20	5/31/2018	23	TS
20	12/2/2015	23	CIG/S Wind
20	1/30/2013	23	TS
20	8/13/2013	23	TS

IAD			
Diversions by Cause	TS	Fog	Winter
	328	109	48
	68%	22%	10%
Rank	Date	Number of Diversions	Wx
1	5/27/2014	32	TS
2	6/16/2016	28	TS
2	6/19/2017	28	TS
2	11/2/2018	28	TS
5	12/17/2016	27	FRZA
6	9/12/2013	26	TS
6	8/30/2022	26	TS
8	2/3/2016	25	FG
9	11/12/2014	24	FG
9	5/2/2019	24	TS
11	4/28/2018	22	FG
12	9/29/2015	21	TS
12	1/13/2019	21	SN
12	5/10/2019	21	TS
15	11/29/2016	20	FG
16	8/15/2019	19	TS
16	10/31/2019	19	TS
16	9/3/2020	19	TS
16	9/12/2022	19	TS
20	12/9/2015	18	FG
20	8/13/2021	18	TS

BWI			
Diversions by Cause	TS	Fog	Winter
	415	16	20
	92%	4%	4%
Rank	Date	Number of Diversions	Wx
1	5/18/2015	35	TS
1	12/13/2018	35	No WX
3	9/7/2018	33	TS
4	5/27/2018	30	TS
5	7/4/2019	29	TS
6	6/20/2015	27	VCTS
7	9/12/2013	25	TS
8	10/31/2019	22	VCTS
8	5/23/2013	22	TS
10	5/2/2019	21	TS
10	6/1/2015	21	TS
10	8/12/2020	21	TS
13	6/10/2013	20	TS
13	6/8/2015	20	TS
13	2/14/2015	20	+SN/BLSN
16	7/17/2018	19	TS
16	6/21/2016	19	TS
18	6/20/2020	18	TS
19	10/9/2015	17	TS
20	11/15/2020	16	TS
20	11/9/2020	16	FG

Diversions by Cause 2013-2022

Preliminary Data

Each table represents the top 20 highest diversion days for the period 2013-2022

Aircraft Incidents and all other non-weather related events are not used for calculation in the tables

RDU

Diversions by Cause	TS	Fog	Winter
	154	51	9
	72%	24%	4%

Rank	Date	Number of Diversions	Wx
1	7/15/2014	25	TS
2	7/23/2017	16	TS
3	10/20/2019	15	No WX
4	9/1/2017	13	TS
5	6/18/2015	12	TS
5	7/5/2016	12	VCTS
5	8/1/2019	12	TS
8	12/3/2014	11	FG
8	7/19/2015	11	TS
8	6/28/2019	11	TS
11	11/5/2015	10	FG
11	2/20/2018	10	FG
11	8/13/2019	10	TS
11	3/27/2021	10	FG then TS
15	7/16/2016	9	TS
15	10/11/2018	9	Hurricane
15	12/10/2018	9	FRZA/SN
15	4/8/2019	9	TS
19	12/12/2015	8	FG
19	10/4/2017	8	FG
19	6/8/2019	8	VCTS

CLT

Diversions by Cause	TS	Hurricane	
	720	33	
	96%	4%	

Rank	Date	Number of Diversions	Wx
1	4/30/2016	66	TS
2	5/29/2014	62	TS
3	10/31/2014	56	TS
4	8/1/2019	53	TS
5	7/23/2017	47	TS
6	3/1/2017	42	TS
7	5/10/2014	40	TS
8	2/6/2020	39	TS
9	8/14/2017	37	TS
10	4/26/2019	36	VCTS
10	8/22/2019	36	TS
10	8/31/2018	36	TS
13	5/2/2016	35	VCTS
13	6/7/2013	35	TS
13	5/4/2019	35	TS
13	7/23/2019	35	TS
17	7/23/2018	34	TS
17	7/8/2015	34	VCTS
17	7/15/2017	34	TS
20	10/11/2018	33	HURRICANE
20	6/27/2016	33	TS

ATL

Diversions by Cause	TS	Other	
	1388	223	
	86%	14%	

Rank	Date	Number of Diversions	Wx
1	4/5/2017	126	TS
2	3/18/2013	99	TS
3	6/24/2015	98	TS
4	6/8/2019	86	TS
5	5/26/2015	84	TS
6	6/25/2018	83	TS
7	7/20/2013	81	TS
8	3/24/2016	80	TS
9	8/8/2014	77	TS
10	12/24/2015	76	TS
10	1/28/2022	76	NW WIND 20 KT
12	12/17/2017	74	VIS
13	9/11/2017	73	HURRICANE
14	6/14/2016	69	TS
14	9/10/2019	69	TS
16	6/9/2015	67	TS
17	7/31/2015	63	TS
18	6/28/2018	62	TS
19	4/10/2015	58	TS
20	7/24/2014	55	TS
20	6/23/2019	55	TS

Diversions by Cause 2013-2022

Preliminary Data

Each table represents the top 20 highest diversion days for the period 2013-2022

Aircraft Incidents and all other non-weather related events are not used for calculation in the tables

BNA

Diversions by Cause	TS	CIG/Fog	
	298	14	
	96%	4%	
Rank	Date	Number of Diversions	Wx
1	8/5/2016	36	TS
2	6/8/2015	24	TS
2	8/4/2017	24	TS
4	8/13/2019	22	TS
5	6/27/2019	19	TS
6	8/20/2014	17	TS
7	7/28/2015	15	TS
7	7/25/2021	15	TS
9	9/8/2017	14	CIG/Fog
9	6/15/2016	14	TS
11	9/10/2019	13	TS
12	4/3/2018	12	TS
13	8/4/2019	11	TS
13	7/14/2016	11	VCTS
13	5/12/2016	11	VCTS
13	3/9/2019	11	TS
13	9/11/2015	11	TS
13	4/3/2015	11	TS
13	8/21/2017	11	Enroute TS
20	5/26/2016	10	TS

MEM

Diversions by Cause	TS	Winter / VIS	All Overnight
	436	26	298
	94%	6%	39%
Rank	Date	Number of Diversions	Wx
1	6/29/2015	62	TS, Overnight
2	8/6/2015	38	TS, Overnight
3	1/30/2013	33	TS, Overnight
4	9/11/2014	29	TS
4	8/5/2015	29	TS, Overnight
6	6/29/2018	25	TS, Overnight
7	6/27/2013	22	TS
8	6/27/2019	20	TS
9	6/20/2019	19	VCTS, Overnight
9	6/25/2014	19	TS, Overnight
11	7/9/2021	18	TS
11	11/27/2019	18	TS, Overnight
13	12/22/2017	16	TS
14	6/30/2015	15	TS, Overnight
15	12/11/2021	14	TS, Overnight
15	3/10/2017	14	TS, Overnight
15	12/17/2018	14	CIG/Fog
18	6/26/2014	12	TS, Overnight
18	2/20/2015	12	FRZA
20	3/27/2014	11	TS
20	10/2/2014	11	TS
20	12/21/2015	11	Enroute TS

SDF

Diversions by Cause	TS	Winter	All Overnight
	184	24	157
	88%	12%	87%
Rank	Date	Number of Diversions	Wx
1	6/26/2015	32	TS, Overnight
2	4/3/2015	25	TS, Overnight
3	6/2/2022	19	TS, Overnight
4	3/5/2015	16	+SN FZFG, Overnight
5	7/17/2015	14	TS, Overnight
6	4/29/2017	13	TS, Overnight
7	12/21/2013	12	TS
8	6/23/2016	11	TS
9	4/3/2019	9	Unknown
10	9/11/2014	8	TS, Overnight
10	4/4/2014	8	TS, Overnight
10	11/14/2018	8	FZRA, Overnight
10	7/18/2015	8	TS, Overnight
10	7/20/2018	8	TS
15	7/7/2017	7	TS
15	6/22/2022	7	Unknown
15	8/29/2017	7	Unknown
15	5/7/2016	7	TS
19	9/6/2017	6	Unknown
19	8/9/2022	6	TS
19	6/1/2018	6	TS, Overnight

Diversions by Cause 2013-2022

Preliminary Data

Each table represents the top 20 highest diversion days for the period 2013-2022

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IND

Diversions by Cause	TS	CIG/Fog	All Overnight
	233	41	63
	85%	15%	19%
Rank	Date	Number of Diversions	Wx
1	7/17/2015	31	TS
2	7/11/2017	30	TS
3	7/14/2015	21	TS, Overnight
4	6/15/2016	18	TS
5	8/29/2017	16	TS, Overnight
5	7/13/2016	16	TS
7	4/6/2015	14	Unknown
7	5/1/2016	14	TS
9	5/21/2014	12	TS
9	6/15/2017	12	TS, Overnight
11	5/16/2019	11	TS
12	12/3/2013	10	CIG/Fog
13	9/26/2014	8	Unknown
13	5/2/2019	8	CIG/Fog
13	3/25/2020	8	CIG/Fog
13	7/7/2015	8	TS
13	10/7/2015	8	CIG/Fog
13	6/5/2019	8	TS
13	6/23/2013	8	TS
20	8/18/2019	7	TS
20	7/13/2015	7	TS
20	7/16/2021	7	TS, Overnight
20	3/11/2015	7	CIG/Fog, Overnight
20	8/26/2016	7	TS

CLE

Diversions by Cause	TS	Winter	Wind a Factor
	60	123	98
	33%	67%	35%
Rank	Date	Number of Diversions	Wx
1	3/1/2018	19	-SN BR Wind
2	5/12/2014	18	TS
3	2/24/2019	14	-SN Wind
3	1/29/2018	14	-SN BR Wind
3	3/12/2014	14	SN FZFG BLSN
6	2/10/2016	13	+SN FZFG
7	2/4/2015	12	SN FZFG
8	6/25/2013	11	TS
9	2/14/2015	10	SN FZG Wind
10	7/9/2013	9	TS
11	1/10/2017	8	-FRZA Wind
11	9/13/2019	8	TS
13	9/5/2014	7	TS
13	3/8/2017	7	Wind
13	8/19/2014	7	TS
13	12/29/2016	7	+SN
17	11/2/2016	6	Unknown
17	2/12/2016	6	-SN BLSN
17	2/13/2016	6	-SN Wind

PIT

Diversions by Cause	TS	CIG/Fog	Winter
	54	75	5
	40%	56%	4%
Rank	Date	Number of Diversions	Wx
1	12/24/2019	20	CIG/Fog
2	10/15/2013	14	CIG/Fog
3	10/21/2019	12	CIG/Fog
4	2/11/2018	9	CIG/Fog
5	6/16/2016	8	TS
5	6/18/2017	8	TS
7	7/10/2013	6	TS
7	6/22/2022	6	TS
7	7/11/2019	6	TS
10	12/5/2015	5	CIG/Fog
10	2/14/2015	5	-SN BR Wind
10	9/11/2015	5	CIG/Fog
10	8/19/2017	5	TS
10	2/20/2017	5	CIG/Fog
10	7/25/2016	5	Enroute TS
10	8/27/2020	5	TS
10	6/27/2019	5	TS
10	5/15/2018	5	Unknown
10	10/10/2014	5	CIG/Fog

Diversions by Cause 2013-2022

Preliminary Data

Each table represents the top 20 highest diversion days for the period 2013-2022

Aircraft Incidents and all other non-weather related events are not used for calculation in the tables

DTW

Diversions by Cause	TS	Winter	Fog
	351	206	73
	56%	33%	26%
Rank	Date	Number of Diversions	Wx
1	7/19/2019	72	TS
2	1/22/2019	55	FRZA
3	1/10/2016	40	SN FZG/Wind
4	6/22/2017	38	TS
5	6/22/2013	36	TS
6	7/8/2013	34	TS
6	5/30/2013	34	TS
8	6/28/2013	33	TS
8	9/4/2014	33	TS
10	2/15/2018	30	FG
11	5/12/2014	28	TS
12	9/1/2014	27	TS
12	2/11/2018	27	FZRA
14	3/1/2018	24	+SN FG
14	1/22/2017	24	FG
16	12/11/2016	23	+SN FZFG
17	11/22/2014	21	FZRA
18	12/6/2015	19	FZFG
19	9/4/2017	16	TS
19	2/9/2018	16	+SN FZFG

BOS

Diversions by Cause	Thunderstorms	Fog	Snow with Fog
	159	162	74
	40%	41%	19%
Rank	Date	Number of Diversions	Wx
1	7/31/2019	29	TS/VCTS
2	1/6/2014	28	FG/S WIND
3	9/17/2017	20	FG
4	2/17/2013	18	+SN/FZFG
5	7/23/2013	17	TS/VCTS
5	4/4/2016	17	SN/FZFG
7	5/21/2013	16	FG
7	8/18/2015	16	TS
7	6/29/2019	16	VCTS
10	7/10/2013	15	FG
10	10/23/2017	15	FG
10	12/25/2017	15	+SN/FZFG
10	8/3/2018	15	VCTS
10	8/14/2019	15	FG
10	8/16/2019	15	FG/CIGS
16	6/17/2013	14	TS
16	7/23/2016	14	VCTS
16	10/18/2016	14	FG
16	7/6/2019	14	TS
20	9/17/2013	12	???
20	5/31/2015	12	+RA/EMBD TS
20	6/19/2017	12	TS Line
20	4/6/2018	12	SN FG
20	8/14/2018	12	FG
20	3/4/2019	12	SN FG
20	3/17/2022	12	FG

PHL

Diversions by Cause	TS	Fog	Winter
	180	205	118
	36%	41%	23%
Rank	Date	Number of Diversions	Wx
1	12/8/2013	41	SN/FZFG
2	2/21/2014	35	TS/FG
3	6/27/2015	34	RA/ENRT TS
4	10/4/2018	31	FG/ENRT TS
5	7/28/2016	28	TS/VCTS/ENRT
5	3/2/2018	28	SN
7	7/28/2013	27	TSRA/ENRT
8	11/5/2020	26	FG
9	6/7/2016	25	TS/ENRT/VCTS
9	3/7/2018	25	SN/FZFG
9	4/4/2018	25	FG
9	11/5/2018	25	-RA/LO CIG
13	1/4/2018	24	SN/FZFG/BLSN
14	2/24/2016	23	TS/VCTS
15	12/16/2014	22	FG
15	6/23/2015	22	TSRA/ENRT
15	1/4/2020	22	FG
18	7/25/2016	21	TS/ENRT/VCTS
19	1/13/2013	19	FG
19	3/13/2014	19	WIND?

Diversions by Cause 2013-2022

Preliminary Data

Each table represents the top 20 highest diversion days for the period 2013-2022

Aircraft Incidents and all other non-weather related events are not used for calculation in the tables

JFK			
Diversions by Cause	Thunderstorms	Visibility	Winter
	424	149	306
	48%	17%	35%
Rank	Date	Number of Diversions	Wx
1	1/4/2018	120	SN
2	1/3/2014	62	SN
3	7/25/2016	50	FG/ENRT TS
3	5/15/2018	50	AM FOG / PM TS
5	2/21/2014	49	FG
6	7/22/2019	46	TS
7	4/16/2018	45	TS/VCTS
7	7/15/2014	45	TS
9	1/5/2014	40	FZRA/FG
10	3/2/2018	39	RASN
10	9/2/2019	39	TS/VCTS
12	7/6/2021	37	TS/VCTS
12	6/19/2017	37	TS/VCTS
14	8/2/2017	35	RA/VCTS
15	3/5/2015	33	RA->SN
16	2/2/2015	32	RA/FZRA/SN
17	4/15/2014	31	ENRT TS
18	1/10/2016	30	RA/FG
18	7/2/2014	30	TS/VCTS
20	4/7/2016	29	VCTS

EWR			
Diversions by Cause	TS	ACFT INCDNT	
	983		
	100%		
Rank	Date	Number of Diversions	Wx
1	8/7/2019	92	TS/VCTS/ENRT
2	7/3/2018	80	TS/VCTS
3	6/29/2019	77	TS/VCTS/ENRT
4	8/2/2017	69	TS/VCTS/ENRT
5	6/15/2019	67	ACFT INCDNT
6	7/25/2016	59	TS/VCTS/ENRT
7	7/22/2019	54	TS/VCTS/ENRT
8	7/17/2021	52	TS/VCTS/ENRT
9	7/18/2022	50	AM/PM TS
10	6/1/2022	47	TS/VCTS/ENRT
10	7/2/2014	47	TS/VCTS/ENRT
12	10/30/2016	46	TS/VCTS/ENRT
13	7/6/2021	43	TS/VCTS/ENRT
14	3/15/2019	42	TS/VCTS/ENRT
15	5/29/2019	41	TS/VCTS/ENRT
16	8/3/2018	40	TS/VCTS/ENRT
17	8/28/2013	37	TS/VCTS/ENRT
17	7/8/2016	37	TS/VCTS/ENRT
19	7/17/2019	35	TS/VCTS/ENRT
19	5/23/2017	35	ACFT INCDNT
19	4/28/2018	35	VCTS/ENRT

LGA			
Diversions by Cause	TS	Fog	Winter
	443	404	152
	44%	40%	15%
Rank	Date	Number of Diversions	Wx
1	2/24/2016	67	RA/VCTS
2	12/5/2013	66	FG
3	3/17/2022	64	FG
4	8/2/2017	61	TS/VCTS/ENRT
4	11/15/2018	61	SN/FZRAPL
6	4/20/2015	51	RA/FG
7	8/7/2019	49	TS/VCTS/ENRT
8	1/7/2017	48	SN/FG
8	11/4/2022	48	FG
10	12/23/2015	47	RA/FG/ENRT TS
11	7/1/2016	45	TS/VCTS/ENRT
11	9/18/2018	45	TS/VCTS/ENRT
13	2/21/2014	44	RA/FG
13	12/14/2015	44	RA/FG
13	10/2/2018	44	TS/VCTS/ENRT
13	4/14/2019	44	FG
17	2/15/2016	43	SN/FZRAPL/FG
17	5/5/2017	43	TS/VCTS/ENRT
17	6/10/2019	43	RA/FG
20	6/15/2015	42	RA/VCTS/ENRT

Diversions by Cause 2013-2022

Preliminary Data

Each table represents the top 20 highest diversion days for the period 2013-2022

Aircraft Incidents and all other non-weather related events are not used for calculation in the tables

TEB			
Diversions by Cause	TS	Fog	Winter
	211	227	178
	34%	37%	29%
Rank	Date	Number of Diversions	Wx
1	4/4/2018	50	FG
2	5/15/2017	49	Accident
3	2/11/2013	42	FG
4	12/5/2013	41	FG
5	3/3/2015	38	FZRAPL
6	11/15/2018	37	SN/PL
7	3/1/2015	35	SN/FZRA
8	1/5/2014	34	FZDZ
8	4/20/2015	34	FG
8	11/19/2015	34	RA?
8	2/15/2016	34	SN/FZFG
8	4/7/2022	34	RA/TS
13	2/16/2016	31	RA/ENRT TS
13	8/2/2017	31	TS/VCTS/ENRT
13	1/4/2020	31	FG
16	5/29/2019	30	TS/VCTS/ENRT
17	2/24/2016	29	TS/VCTS/ENRT
17	2/18/2020	29	RA/DZ/BR
19	5/22/2017	28	RA/VCTS/ENRT
19	9/23/2021	28	TS/VCTS/ENRT

HPN			
Diversions by Cause	TS	Fog	TS & Fog
	57	409	158
	9%	66%	25%
Rank	Date	Number of Diversions	Wx
1	3/28/2021	55	VCTS/FG
2	5/22/2014	54	VCTS/FG/ENRT
3	1/1/2022	53	FG
4	6/15/2015	42	VCTS/FG
5	11/17/2013	41	DZ/FG
6	12/14/2015	38	FG
6	5/8/2014	38	FG
8	6/9/2014	36	VCTS/FG
9	12/21/2018	33	VCTS/+RA
10	12/2/2015	31	-RA/FG
11	12/1/2019	28	-FZRA/SN/RA
11	10/8/2018	28	DZ/FG
13	1/13/2013	27	FG
13	1/12/2018	27	-RA/FG
15	2/24/2016	26	RA/FG/ENRT
15	1/8/2019	26	FZRA/FG
17	4/20/2015	24	RA/FG
17	4/14/2019	24	-RA/FG
17	10/30/2016	24	TS/VCTS/ENRT
20	1/2/2021	23	-RA/BR
20	3/26/2021	23	FG

Diversions by Cause 2013-2022

Preliminary Data

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MIA			
Diversions by Cause	TS	Fog	
	881	49	
	95%	5%	
Rank	Date	Number of Diversions	Wx
1	5/15/2014	78	TS
2	8/2/2016	74	TS
3	6/2/2017	55	TS
4	5/4/2016	54	TS
5	1/16/2016	49	CIG/Fog
6	12/20/2018	48	TS
7	8/6/2016	45	TS
7	5/29/2022	45	TS
9	5/6/2019	43	TS
10	7/12/2017	42	TS
11	5/20/2013	39	TS
11	6/9/2022	39	TS
11	7/23/2019	39	TS
11	2/12/2014	39	TS
15	7/25/2019	37	TS
16	7/31/2015	36	TS
16	5/2/2013	36	TS
18	6/18/2016	35	TS
19	6/1/2022	33	TS
20	4/30/2013	32	TS
20	6/22/2014	32	TS

MCO			
Diversions by Cause	TS		
	788		
	100%		
Rank	Date	Number of Diversions	Wx
1	7/22/2018	112	TS
2	6/25/2015	55	TS
3	3/24/2016	46	TS
4	7/5/2015	41	TS
5	6/19/2015	40	TS
5	3/24/2013	40	TS
7	8/19/2018	39	TS
8	7/17/2017	35	TS
8	5/13/2019	35	TS
10	6/19/2019	34	TS
11	8/14/2013	33	TS
11	12/20/2018	33	TS
11	6/24/2022	33	TS
14	6/18/2016	32	TS
14	8/26/2015	32	TS
16	7/6/2019	31	TS
16	4/29/2014	31	TS
18	4/25/2021	30	TS
19	6/13/2021	29	TS
20	11/10/2017	27	Ground incident
20	6/7/2018	27	TS

Diversions by Cause 2013-2022

Preliminary Data

Each table represents the top 20 highest diversion days for the period 2013-2022

Aircraft Incidents and all other non-weather related events are not used for calculation in the tables

TPA			
Diversions by Cause	TS		
	345		
	100%		
Rank	Date	Number of Diversions	Wx
1	8/1/2015	24	TS
2	5/2/2014	23	TS
3	1/4/2020	21	TS
3	8/3/2015	21	TS
5	5/4/2016	20	TS
6	12/17/2019	19	TS
6	5/12/2015	19	TS
8	5/13/2019	17	TS
8	4/30/2022	17	TS
8	9/18/2019	17	TS
11	4/19/2019	16	TS
11	6/10/2019	16	TS
11	8/31/2018	16	TS
14	8/13/2015	15	TS
14	5/19/2017	15	TS
16	6/29/2021	14	TS
16	4/10/2018	14	TS
16	4/11/2021	14	TS
16	5/17/2016	14	VCTS
20	7/16/2014	13	TS

JAX			
Diversions by Cause	TS	Fog	
	108	7	
	94%	6%	
Rank	Date	Number of Diversions	Wx
1	6/1/2018	10	TS
2	8/25/2015	9	TS
3	5/19/2016	8	TS
3	5/11/2014	8	TS
3	6/17/2017	8	TS
6	10/29/2019	7	TS
6	12/24/2016	7	CIG/Fog
6	5/31/2017	7	TS
6	3/23/2013	7	TS
6	6/19/2018	7	TS
6	7/8/2015	7	TS
6	12/18/2015	7	Spread Out
6	12/3/2015	7	Spread Out
6	12/1/2015	7	Spread Out
15	8/7/2015	6	TS
15	5/24/2017	6	TS
15	12/9/2015	6	Spread Out
15	6/19/2015	6	TS
15	7/3/2019	6	VCTS
15	6/18/2022	6	TS

Diversions by Cause 2013-2022

Preliminary Data

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IAH

Diversions by Cause	TS	CIG/Fog	
	1156	114	
	91%	9%	
Rank	Date	Number of Diversions	Wx
1	6/2/2016	105	TS
2	4/16/2015	89	TS
3	1/11/2018	79	TS
3	12/27/2015	79	TS
5	5/27/2016	77	TS
6	9/19/2019	73	TS
7	5/20/2018	66	TS
8	1/20/2013	64	CIG/Fog
9	5/9/2019	59	TS
10	5/30/2015	54	TS
11	1/8/2016	51	TS
11	11/17/2015	51	TS
13	10/16/2015	50	CIG/Fog
14	10/31/2015	49	TS
15	12/29/2019	47	TS
15	6/12/2016	47	TS
15	6/23/2014	47	TS
15	9/20/2019	47	TS
19	7/3/2014	46	TS
20	9/7/2014	45	TS
20	4/25/2022	45	TS
20	6/30/2015	45	TS

DFW

Diversions by Cause	Thunderstorms	Fog	
	1800	80	
	96%	4%	
Rank	Date	Number of Diversions	Wx
1	8/30/2019	125	TS
2	8/19/2016	112	TS
3	12/26/2018	111	TS
4	8/12/2016	106	TS
5	9/21/2018	102	TS
5	8/13/2013	102	TS
7	5/31/2016	97	TS
8	5/8/2014	96	TS
9	12/27/2015	93	TS
10	7/14/2014	91	TS
11	8/17/2014	90	TS
11	8/16/2020	90	TS
13	12/26/2015	88	TS
14	6/12/2016	87	TS
15	8/10/2022	84	TS
16	6/2/2017	83	TS
17	7/10/2019	82	TS
18	6/7/2018	81	TS
19	11/2/2015	80	CIG/Fog
19	4/24/2015	80	TS

Diversions by Cause 2013-2022

Preliminary Data

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MSY			
Diversions by Cause	TS	CIG/Fog	Winter
	164	130	14
	53%	42%	5%
Rank	Date	Number of Diversions	Wx
1	1/13/2020	33	CIG/Fog
2	4/2/2022	25	Unknown
3	4/27/2015	24	TS
4	12/7/2021	23	CIG/Fog
5	1/11/2015	21	CIG/Fog
5	6/15/2019	21	TS
7	5/21/2015	15	TS
7	5/3/2017	15	TS
9	1/24/2014	14	-FZDZ BR
10	6/23/2014	13	TS
10	3/18/2016	13	TS
12	4/14/2018	12	TS
12	12/17/2021	12	CIG/Fog
14	5/25/2015	11	TS
14	11/5/2018	11	CIG/Fog
16	10/13/2014	10	TS
16	2/18/2020	10	CIG/Fog
16	8/6/2018	10	TS
16	4/24/2013	10	TS
16	10/26/2019	10	Enroute TS
16	3/11/2015	10	CIG/Fog
16	2/12/2020	10	CIG/Fog

HOU			
Diversions by Cause	TS		
	470		
	100%		
Rank	Date	Number of Diversions	Wx
1	8/15/2021	30	TS
2	11/17/2015	29	TS
3	1/8/2016	28	TS
4	5/30/2015	26	TS
5	6/12/2016	25	TS
5	4/27/2013	25	TS
7	8/11/2015	24	TS
7	10/13/2014	24	TS
9	7/15/2017	23	TS
10	12/3/2017	22	TS
11	9/18/2014	21	TS
11	4/4/2022	21	Enroute TS
13	8/20/2015	20	TS
13	6/24/2014	20	TS
13	6/4/2017	20	TS
16	1/11/2018	19	TS
16	7/25/2016	19	TS
16	5/27/2016	19	TS
16	6/14/2018	19	TS
20	5/12/2015	18	TS
20	6/22/2020	18	TS

Diversions by Cause 2013-2022

Preliminary Data

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ORD

Diversions by Cause	TS	Winter	VIS
	1545	164	28
	89%	9%	2%

Rank	Date	Number of Diversions	Wx
1	8/3/2017	126	TS/VCTS
2	6/18/2014	110	TS
3	5/13/2014	108	Line TS East
4	5/2/2018	107	TS
5	5/14/2018	100	TS
6	4/29/2014	97	CIG/Fog - TS
6	6/15/2015	97	TS
8	7/12/2017	95	TS
9	5/27/2019	85	TS
10	11/21/2015	83	+SN
11	4/14/2019	81	+SN FG
12	5/22/2013	77	TS
13	8/28/2018	76	TS
14	8/29/2016	74	TS
15	6/14/2017	73	TS
16	10/5/2018	71	TS
17	5/12/2014	70	TS
18	8/24/2021	69	TS
18	6/26/2018	69	TS
18	7/14/2019	69	TS

MDW

Diversions by Cause	Thunderstorms	Visibility	Winter
	402	279	221
	45%	31%	25%

Rank	Date	Number of Diversions	Wx
1	2/15/2018	60	CIG/Fog
2	1/24/2020	59	CIG/Fog
3	1/2/2014	55	SN/SN FZFG
4	3/23/2015	54	SN FZFG
5	6/12/2013	52	TS
6	5/27/2019	41	TS
6	7/2/2019	41	TS
6	1/11/2017	41	CIG/Fog
9	5/13/2014	40	Line of TS East
9	12/28/2015	40	FRZA PL BR
9	4/14/2019	40	VCTS/ +SN FG
12	4/9/2015	37	TS
13	9/27/2019	36	TS
14	9/3/2018	34	TS
15	5/28/2013	33	TS
16	1/8/2015	32	+SN
17	9/14/2017	31	CIG/Fog
18	11/5/2017	30	CIG/Fog
18	7/24/2016	30	TS
20	2/7/2019	29	CIG/Fog
20	6/30/2014	29	TS
20	6/26/2013	29	VCTS
20	1/16/2017	29	-RA FG

MSP

Diversions by Cause	TS	Winter	Visibility
	596	133	66
	75%	17%	8%

Rank	Date	Number of Diversions	Wx
1	9/21/2016	64	TS
2	7/5/2016	59	TS
3	7/15/2019	58	TS
3	6/14/2014	58	VCTS
5	7/12/2018	56	TS
6	4/14/2018	54	SN BLSN FZFG
7	1/22/2018	47	+SN BLSN
8	11/27/2016	40	CIG/ FZFG
9	4/1/2015	36	TS
10	8/6/2013	35	TS
11	6/4/2019	34	TS
12	5/29/2018	33	VCTS
13	4/11/2019	32	SN FZFG / -RAPI
14	8/10/2016	31	TS
15	5/17/2017	30	TS
16	5/19/2013	28	TS
17	2/21/2017	26	CIG/Fog
18	5/24/2018	25	TS
18	8/4/2016	25	TS
20	7/7/2014	24	TS

Diversions by Cause 2013-2022

Preliminary Data

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STL			
Diversions by Cause	TS	Winter	
	229	33	
	87%	13%	
Rank	Date	Number of Diversions	Wx
1	5/11/2016	23	TS
2	5/31/2013	22	VCTS
3	6/14/2018	21	TS
3	6/25/2015	21	TS
5	4/7/2015	19	TS
6	5/27/2013	15	TS
7	12/15/2019	13	SN FZFG
7	5/21/2019	13	TS
7	7/17/2019	13	TS
7	5/20/2013	13	TS
11	5/29/2019	12	TS
12	2/21/2013	11	SNPL FZFG
12	8/3/2022	11	TS
14	11/24/2014	10	Unknown
14	6/23/2013	10	TS
16	6/28/2018	9	TS
16	6/27/2014	9	TS
16	7/19/2016	9	TS
16	1/5/2014	9	+SN FZFG
16	6/13/2016	9	TS

MCI			
Diversions by Cause	TS	Winter	Overnight TS
	268	64	75
	81%	19%	23%
Rank	Date	Number of Diversions	Wx
1	5/26/2016	31	TS
2	8/21/2017	25	TS
3	8/29/2019	21	TS, Late
4	8/6/2014	20	TS
5	1/22/2019	19	SN FZFG
6	5/28/2019	18	VCTS
7	8/26/2016	17	TS
8	1/10/2020	16	VCTS / FZRA
8	5/18/2017	16	TS, Late
10	6/30/2018	15	TS
11	12/16/2016	13	-FZDZ
11	8/12/2021	13	TS, Late
11	4/26/2016	13	TS
11	6/29/2017	13	TS, Late
15	7/6/2015	12	TS
15	9/27/2019	12	TS
15	3/6/2022	12	SN FZFG
15	6/17/2017	12	TS, Late
15	1/17/2020	12	-FZRA BR
20	10/1/2014	11	TS
20	9/19/2013	11	TS

Diversions by Cause 2013-2022

Preliminary Data

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DEN

Diversions by Cause	TS	CIG/Fog	
	964	152	
	86%	14%	
Rank	Date	Number of Diversions	Wx
1	7/30/2019	76	VCTS
2	6/28/2016	73	TS
3	8/9/2014	63	TS
4	7/7/2014	62	TS
5	7/21/2017	61	TS
5	6/13/2016	61	TS
7	5/26/2019	58	TS
8	5/21/2014	57	TS
9	9/10/2013	55	TS
9	6/29/2018	55	Enroute TS
11	6/23/2013	54	TS
12	4/17/2015	53	CIG/Fog
13	5/28/2018	52	TS
14	8/3/2013	51	TS & BLDU
15	11/30/2014	50	CIG/FZFG
16	12/21/2013	49	CIG/FZFG
17	8/31/2018	48	TS
18	6/23/2014	47	VCTS
19	6/24/2018	46	TS
20	6/6/2016	45	TS

PHX

Diversions by Cause	TS	Only CIG/VIS	BLDU a factor
	661	112	312
	86%	14%	40%
Rank	Date	Number of Diversions	Wx
1	7/18/2016	58	TS
2	9/27/2014	53	TS
3	7/30/2018	52	TS / BLDU
3	9/24/2017	52	Tower Evac
5	7/29/2016	51	TS
6	7/25/2014	44	BLDU
7	8/12/2014	42	TS
8	8/24/2016	41	TS
9	8/18/2021	40	TS
10	8/8/2018	39	TS / BLDU
10	8/26/2013	39	TS / BLDU
12	7/16/2017	38	TS
13	2/1/2015	37	CIG/Fog
13	9/23/2019	37	TS
15	8/2/2016	36	TS
15	7/3/2014	36	VCTS / BLDU
15	8/12/2018	36	TS / BLDU
18	8/2/2018	35	VCTS / BLDU
19	8/21/2016	31	BLDU
20	10/15/2022	28	TS

SLC

Diversions by Cause	TS	CIG/VIS	Winter
	172	300	140
	28%	49%	23%
Rank	Date	Number of Diversions	Wx
1	3/18/2020	61	Earthquake
2	1/24/2013	52	-FZDZ BR
3	1/27/2013	44	+SN / WIND
3	12/19/2013	44	+SN
5	8/7/2015	41	TS
6	12/4/2019	33	CIG/FZFG
6	1/7/2018	33	CIG/Fog
6	2/6/2013	33	CIG/Fog
6	5/6/2019	33	VCTS
10	4/14/2015	32	BLDU
11	5/24/2017	31	TS
12	4/13/2017	29	Unknown
13	9/8/2020	28	Enroute TS
14	1/7/2016	24	CIG/FZFG
15	1/26/2013	23	CIG/Fog
15	1/22/2014	23	CIG/Fog
17	12/26/2017	21	CIG/FZFG
17	12/15/2013	21	HZ
19	6/13/2019	20	TS
20	1/3/2014	19	HZ
20	12/29/2016	19	CIG/FZFG
20	8/21/2018	19	TS
20	12/16/2013	19	HZ

Diversions by Cause 2013-2022

Preliminary Data

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SEA			
Diversions by Cause	TS	CIG/Fog	Winter
	54	406	100
	10%	73%	18%
Rank	Date	Number of Diversions	Wx
1	11/20/2018	88	CIG/Fog
2	2/11/2019	42	+SN FG
3	12/8/2017	35	CIG/Fog
3	9/7/2019	35	TS
3	10/22/2018	35	CIG/Fog
6	11/29/2015	33	CIG/Fog
7	12/11/2017	31	CIG/Fog
8	10/19/2018	28	CIG/Fog
8	12/26/2021	28	SN FZFG
10	11/8/2019	23	CIG/Fog
11	8/10/2018	21	Stolen Aircraft
11	12/31/2018	21	CIG/Fog
13	1/9/2016	20	CIG/Fog
14	6/20/2016	19	VCTS
15	2/9/2016	17	CIG/Fog
15	1/2/2016	17	CIG/FZFG
17	2/28/2020	16	CIG/Fog
18	2/8/2019	15	-SN FZFG
18	2/9/2019	15	-SN FZFG
20	10/1/2020	14	CIG/Fog
20	11/28/2013	14	CIG/Fog
20	11/24/2022	14	CIG/Fog

SFO			
Diversions by Cause	TS	CIG/Fog	
	30	269	
	10%	90%	
Rank	Date	Number of Diversions	Wx
1	7/6/2013	85	Crash
2	9/11/2017	30	TS
3	11/30/2013	27	CIG/Fog
4	10/5/2020	25	CIG/Fog
5	1/4/2014	23	CIG/Fog
6	3/1/2013	22	CIG/Fog
7	12/11/2018	19	BR
8	1/18/2015	17	CIG/Fog
8	1/10/2019	17	CIG/Fog
8	11/8/2013	17	CIG/Fog
8	5/19/2016	17	Unknown
12	9/13/2016	15	Unknown
13	12/22/2014	14	CIG/Fog
13	2/7/2020	14	CIG/Fog
15	12/27/2017	13	CIG/Fog
15	1/31/2020	13	CIG/Fog
17	8/16/2013	12	CIGS
17	2/13/2014	12	CIG/Fog
17	11/13/2021	12	CIG/Fog
17	8/18/2013	12	CIGS

ANC			
Diversions by Cause	Winter	CIG/VIS	
	36	26	
	58%	42%	
Rank	Date	Number of Diversions	Wx
1	12/23/2022	22	BLSN
2	12/12/2022	14	SN FZFG
3	11/1/2017	9	CIG/FZFG
4	5/2/2020	8	Unknown
5	11/30/2018	6	Unknown
5	10/21/2022	6	CIG/Fog
5	11/17/2017	6	CIG/FZFG
8	11/27/2019	5	Spread Out
8	10/1/2018	5	Unknown
8	10/26/2017	5	Unknown
8	8/11/2022	5	Spread Out
8	12/24/2018	5	CIG/FZFG

Diversions by Cause 2013-2022

Preliminary Data

Each table represents the top 20 highest diversion days for the period 2013-2022

Aircraft Incidents and all other non-weather related events are not used for calculation in the tables

LAS

Diversions by Cause	TS	Dust	RA strong Wind
	379	87	25
	77%	18%	5%

Rank	Date	Number of Diversions	Wx
1	7/9/2018	58	TS
2	8/13/2015	50	TS
3	8/11/2018	41	TS
4	3/18/2020	40	Unknown
5	6/30/2016	37	TS
5	4/9/2016	37	TS
7	7/18/2015	36	VCTS
8	3/30/2017	33	BLDU
9	4/9/2019	32	VCBLDU
10	9/8/2017	27	TS
11	2/28/2014	25	RA Strong W Wind
11	7/19/2013	25	TS
13	4/28/2016	24	TS
14	12/16/2016	23	Unknown
14	4/30/2014	23	Unknown
14	7/19/2017	23	TS
17	7/21/2018	22	BLDU
17	12/2/2022	22	Unknown
19	7/19/2018	21	TS
19	10/1/2017	21	Unknown

SAN

Diversions by Cause	WIND	VIS/CIG	
	35	472	
	7%	93%	

Rank	Date	Number of Diversions	Wx
1	1/31/2017	38	Fog/CIG
2	11/14/2013	37	Fog/CIG
3	11/4/2015	35	W Wind 18 KT
4	1/12/2018	32	Fog/CIG
4	11/23/2015	32	Fog/CIG
6	3/13/2017	31	Fog/CIG
7	3/13/2013	30	CIG
8	12/22/2022	27	Fog/CIG
9	12/31/2013	26	Fog/CIG
10	12/16/2016	23	RA/CIG
11	3/27/2015	20	Fog/CIG
12	2/1/2017	19	Fog/CIG
12	11/28/2014	19	Fog/CIG
14	1/1/2018	18	Fog/CIG
14	10/26/2018	18	Fog/CIG
14	12/30/2017	18	Fog/CIG
14	11/22/2020	18	Fog/CIG
18	11/1/2015	17	Fog/CIG
18	1/2/2014	17	Fog/CIG
20	6/30/2013	16	CIG
20	3/12/2013	16	Fog/CIG

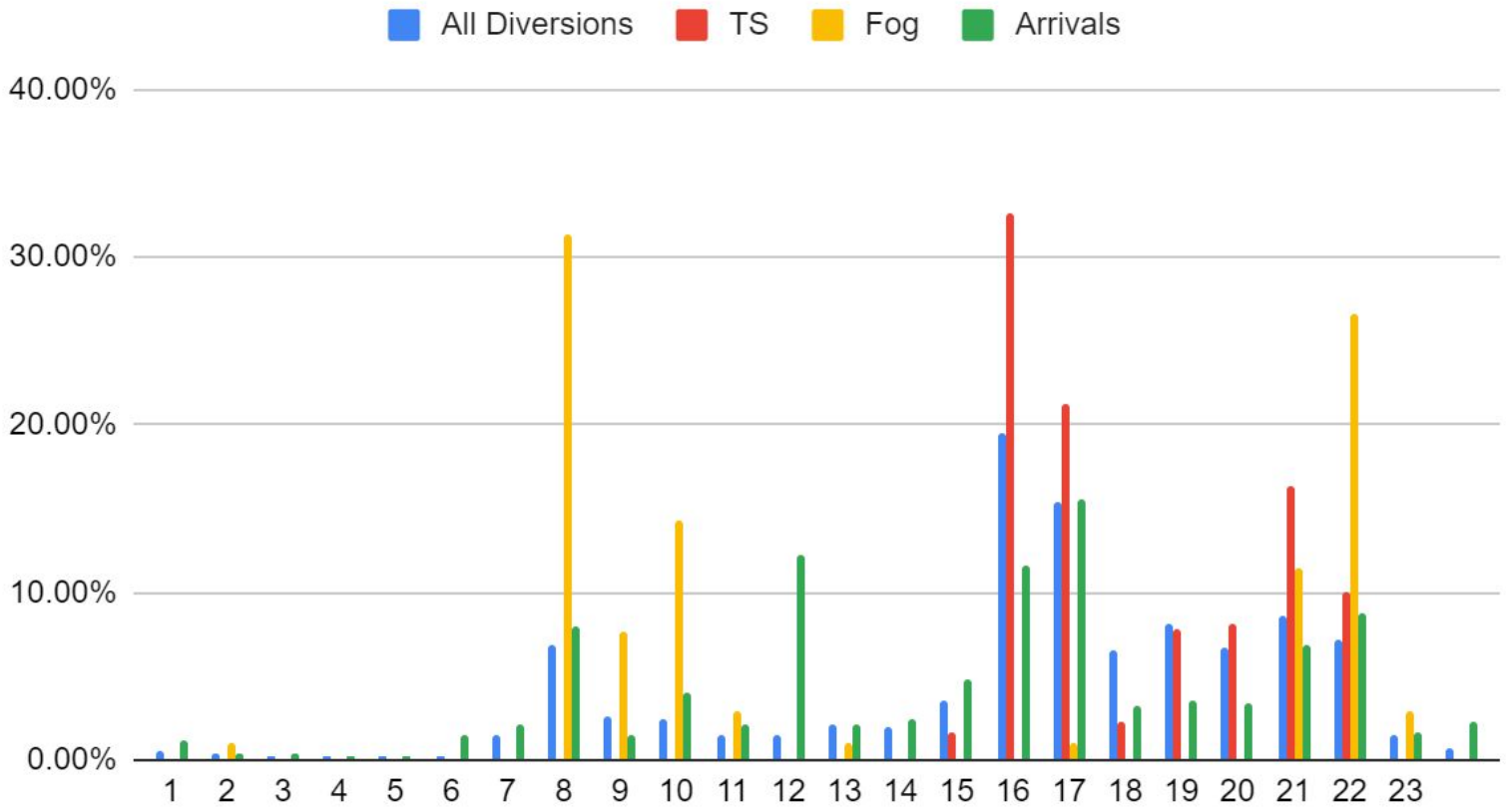
LAX

Diversions by Cause	TS	VIS/CIG	
	70	287	
	20%	80%	

Rank	Date	Number of Diversions	Wx
1	11/1/2013	45	Unknown
2	4/30/2014	42	Unknown
3	8/28/2016	39	Unknown
4	12/9/2015	33	Fog
5	2/5/2015	32	CIG/Fog
6	2/9/2018	31	CIG/Fog
7	12/21/2016	28	+RA
8	2/27/2016	26	CIG/Fog
9	2/4/2013	24	CIG/Fog
10	10/12/2018	23	TS
11	6/5/2019	21	Unkown
12	12/10/2014	20	CIG/Fog
13	2/1/2017	18	CIG/Fog
14	7/18/2015	17	TS
14	10/4/2021	17	TS
14	3/25/2013	17	CIG/Fog
17	7/20/2015	16	CIG/Fog
18	1/29/2014	15	CIG/Fog
19	1/8/2014	14	CIG/Fog
20	2/8/2020	13	CIG/Fog
20	1/31/2019	13	TS

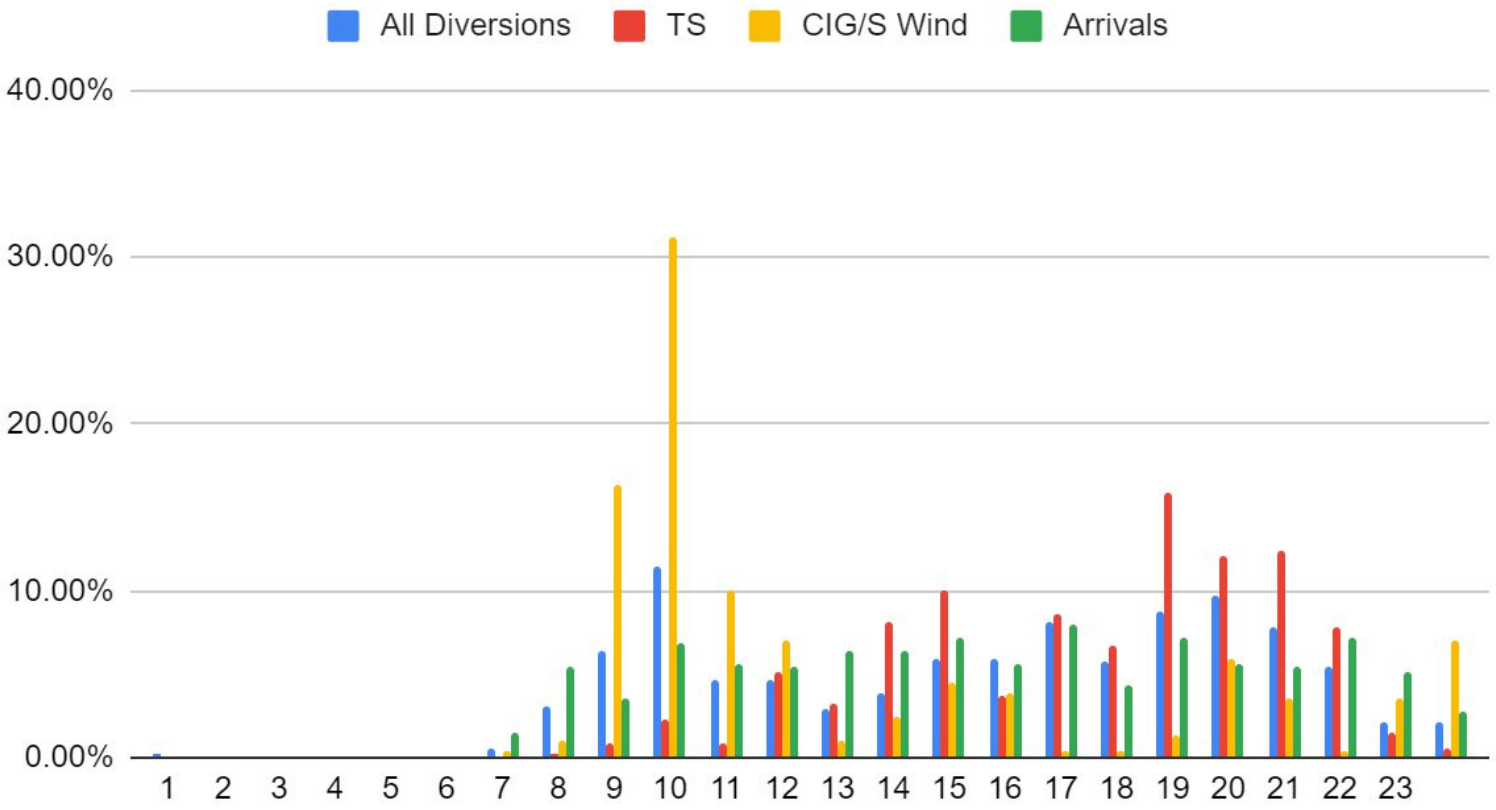
IAD Top 20 Highest Diversion Days			
Diversions by Cause	TS	Fog/Low CIGS	Winter Weather
	328	109	48
	68%	22%	10%

IAD



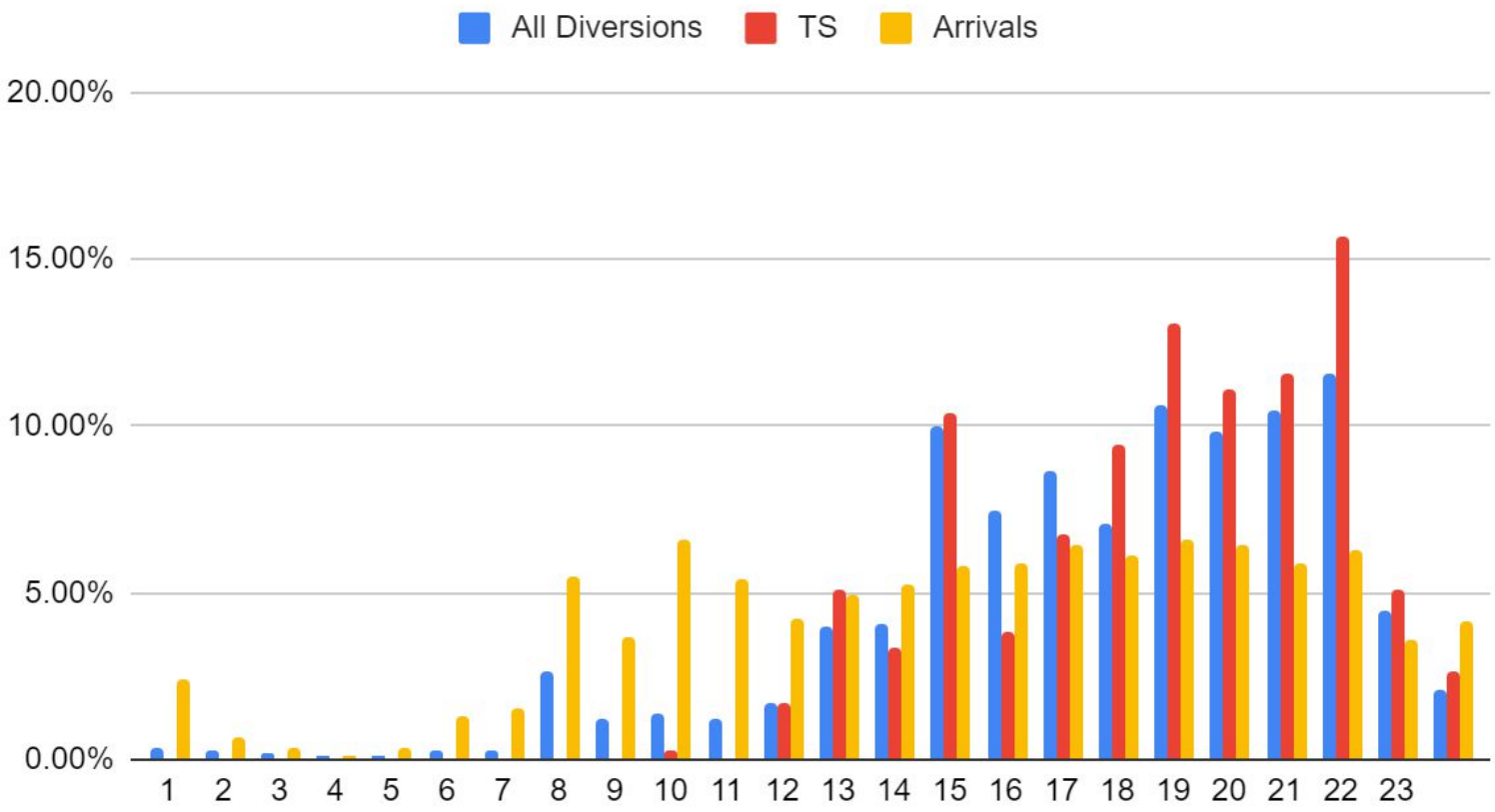
DCA Top 20 Highest Diversion Days			
Diversions by Cause	TS	Low CIG with South Wind	Other
	361	292	53
	51%	41%	8%

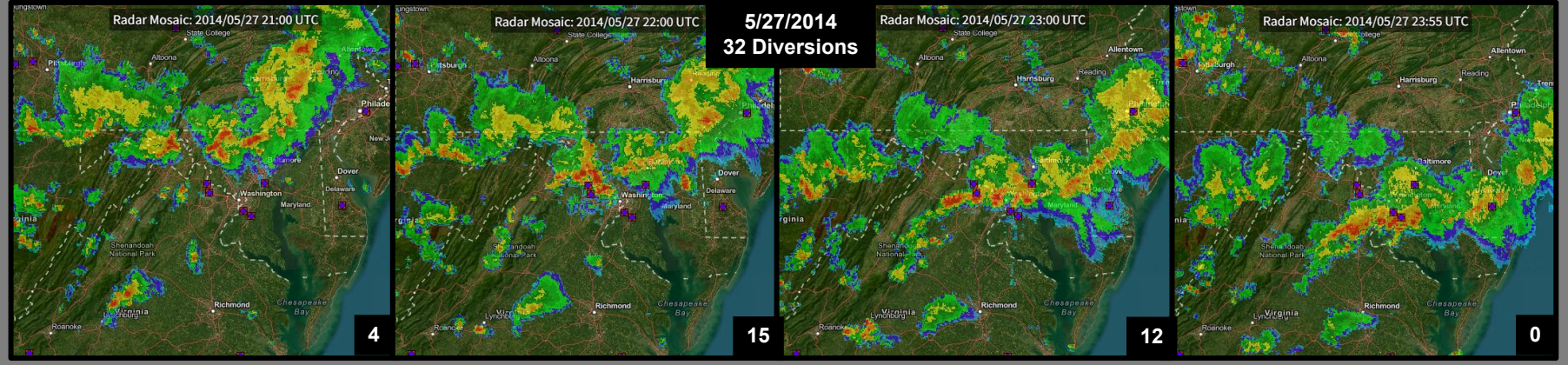
DCA



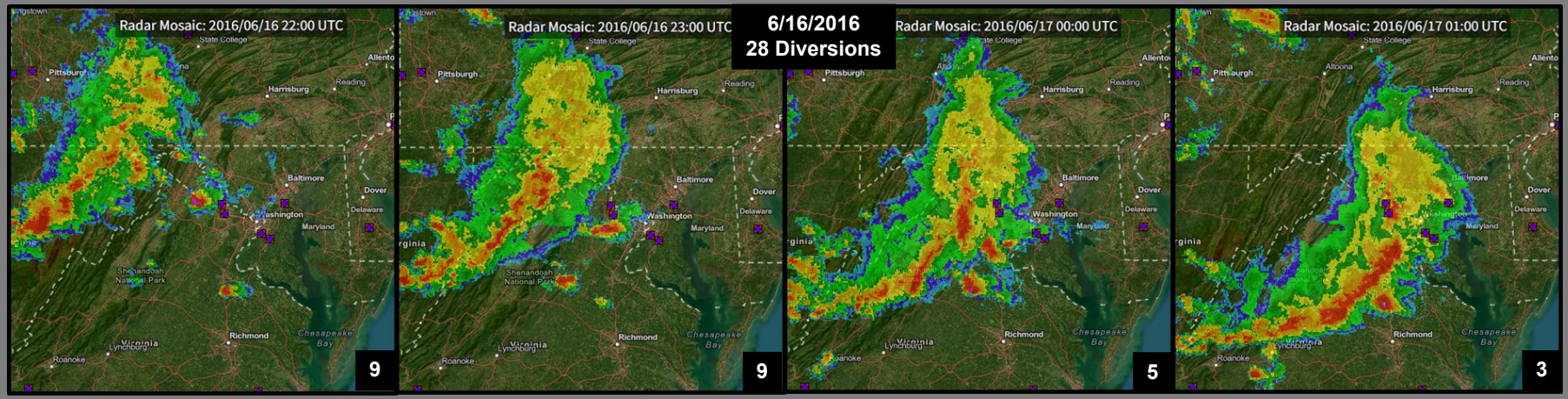
BWI Top 20 Highest Diversion Days			
Diversions by Cause	TS	Fog/Low CIG	Winter Weather
	415	16	20
	92%	4%	4%

BWI





IAD



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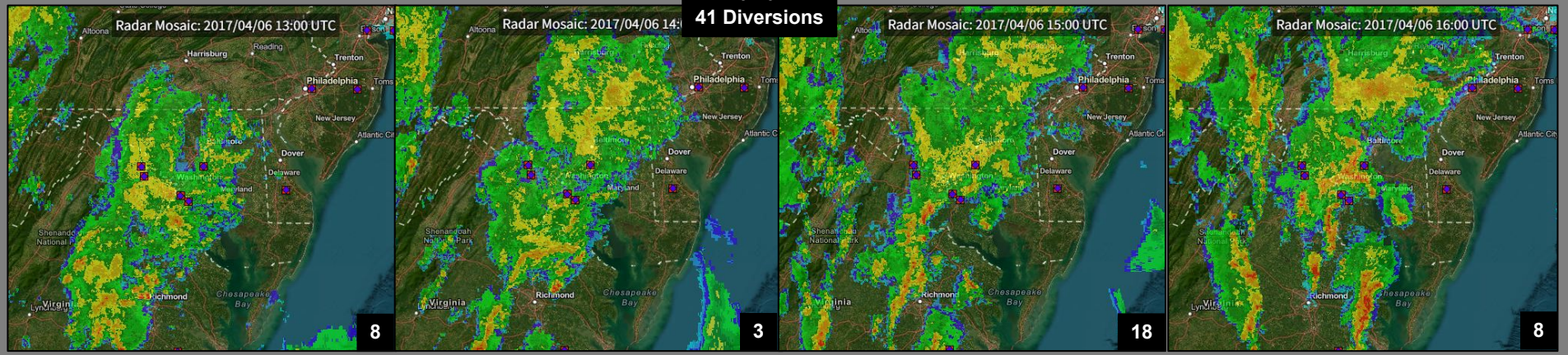
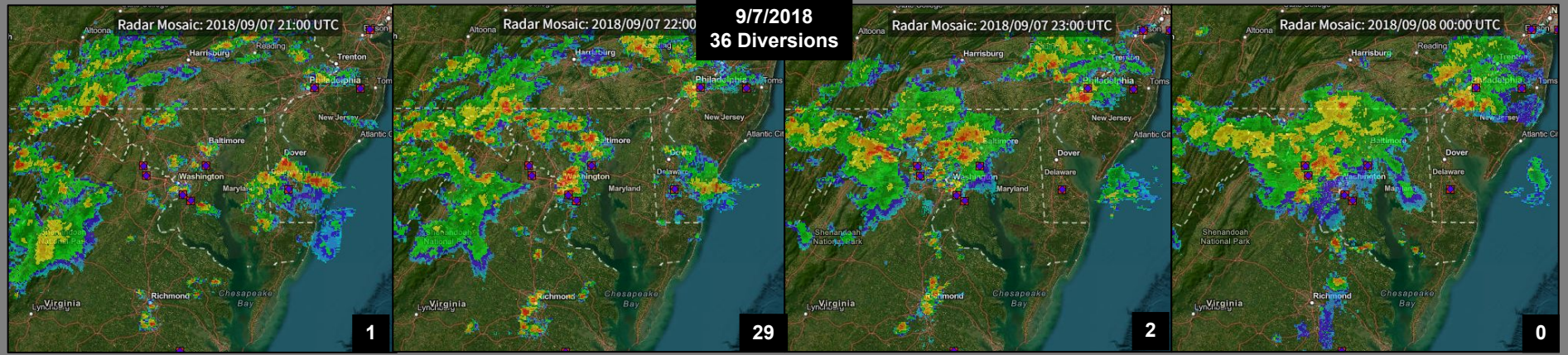
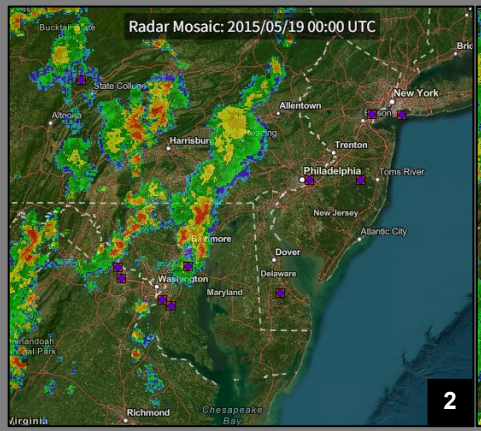
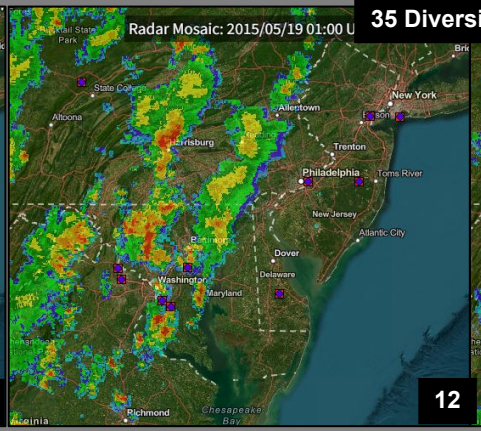

4/6/2017
41 Diversions
Radar Mosaic: 2017/04/06 13:00 UTC
Radar Mosaic: 2017/04/06 14:
Radar Mosaic: 2017/04/06 15:00 UTC
Radar Mosaic: 2017/04/06 16:00 UTC
8
3
18
8

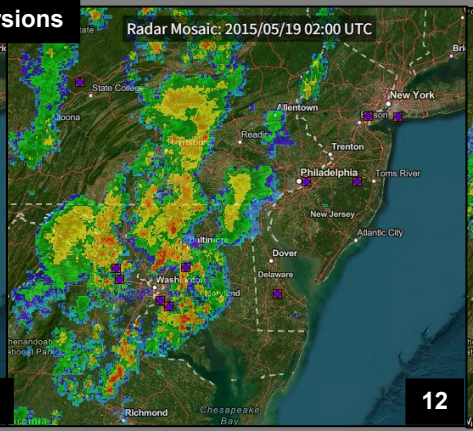
DCA

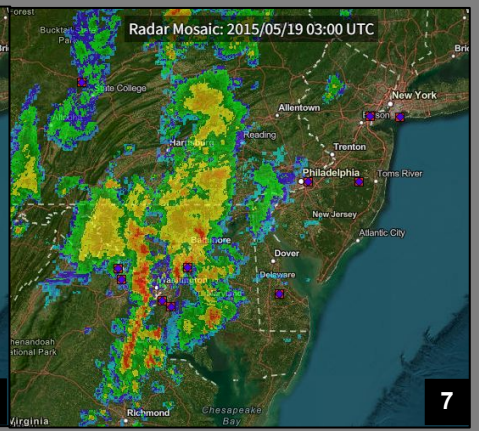

9/7/2018
36 Diversions
Radar Mosaic: 2018/09/07 21:00 UTC
Radar Mosaic: 2018/09/07 22:00
Radar Mosaic: 2018/09/07 23:00 UTC
Radar Mosaic: 2018/09/08 00:00 UTC
1
29
2
0



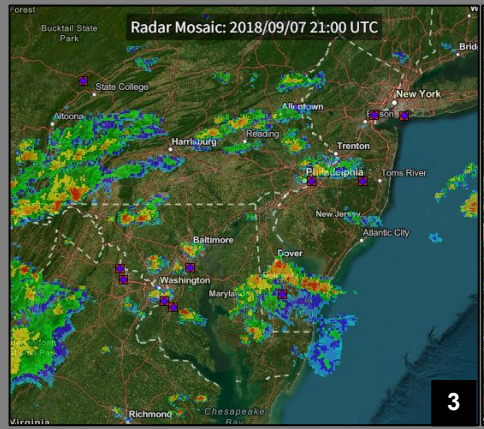
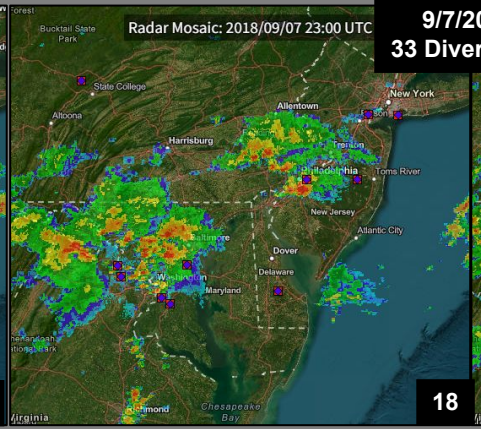
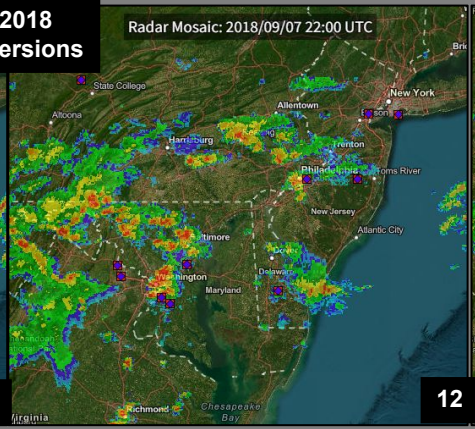
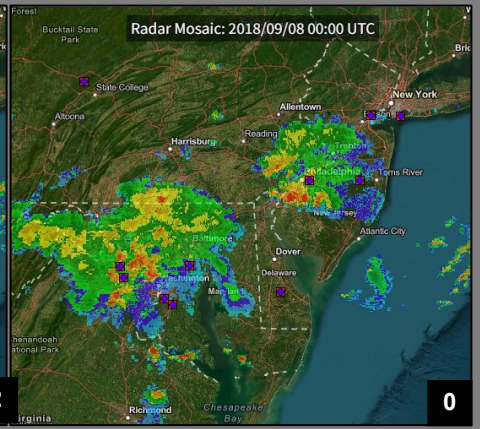
5/18/2015
35 Diversions







BWI



9/7/2018
33 Diversions