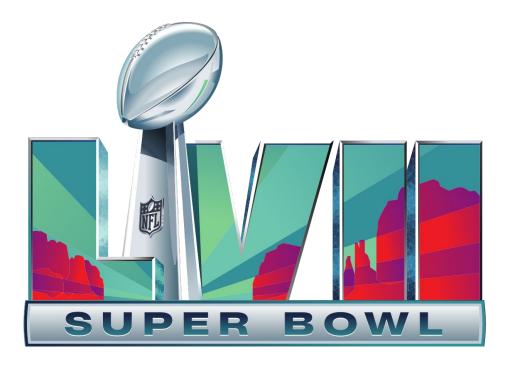


## **Super Bowl LVII**



State Farm Stadium Glendale, AZ February 12, 2023

# Waste Management Phoenix Open



TPC Scottsdale Scottsdale, AZ February 9-12, 2023





# **Super Bowl LVII**





# Waste Management Phoenix Open



- One of the most viewed and celebrated sporting events in the world
  - Thousands-upon-thousands travel to the host city to attend the game and/or to partake in the festivities
- Routinely one of the highest attended professional sporting events in the world
  - 200,000+ spectators is common for Saturday (Round 3)





# **More Than Just the Sporting Events**

## **Numerous sanctioned** events and many more unsanctioned

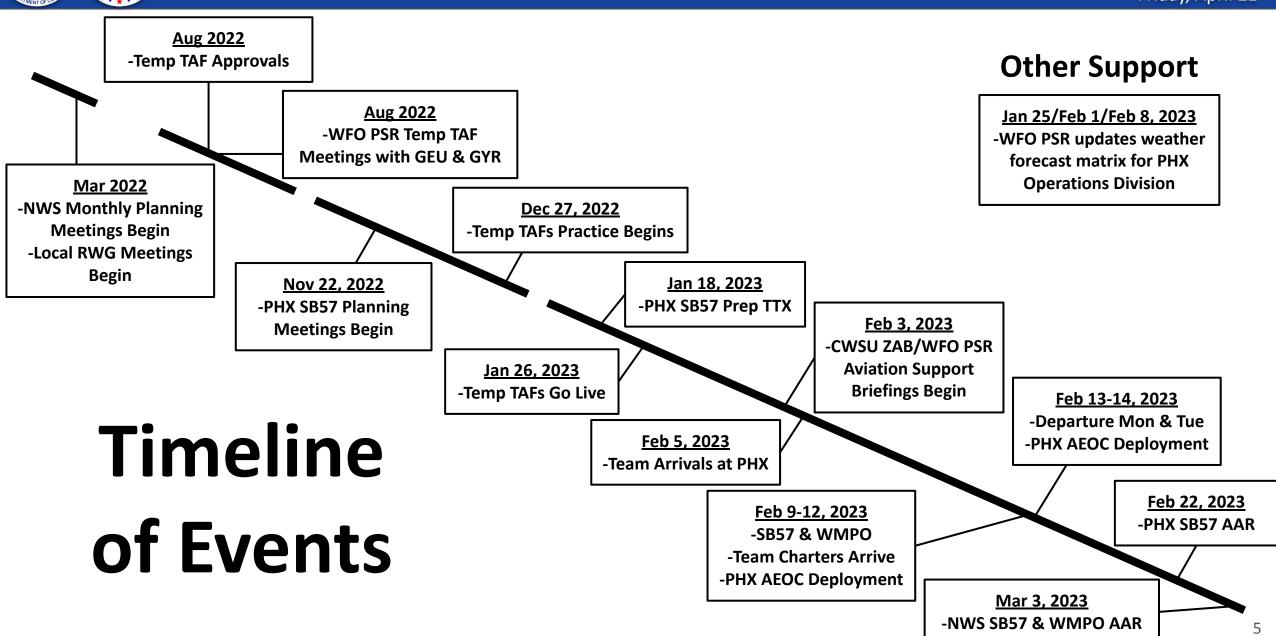
- **Super Bowl Experience**
- **Concerts**
- **Celebrity Events**
- **Watch Parties**
- Etc.

The Mark Control Contr	Event / Date	Sat 1/7/202: Sun 1/8/202 Mon 1/9/202 Tu 1/10/202: Wed 1/11/202:	Sat 1/14/202 San 1/14/202 Sun 1/16/20 Mon 1/17/202 Wed 1/18/202	Fri 1/30/202 Sat 1/21/20/202 Sun 1/22/20 Mon 1/23/20 Tu 1/24/202 Wed 1/26/202 Fri 1/27/202	Sat 1/28/20 Sun 1/28/20 Mon 1/30/2( Tu 1/31/202 Wed 2/1/202 Th 2/2/2023	Fri 2/3/2023 Sat 2/4/2023 Sun 2/6/202 Mon 2/6/202 Tu 2/7/2023	Wed 2/8/2023 Th 2/9/2023 Fri 2/10/2023 Sat 2/11/2023 GAME DAY Mon 2/13/202	General Times	Estimated Daily Attendance	Notes	Venue Location
Figure   Property	per Bowl LVII Game									Ticketed	State Farm Stadium
Figure   Property	L Main Accreditation Center	X X X X	x x x x x x x x	(	x x x x x x x	XXXXX	(	1800-2300			Glendale Civic Center
Comment Comm	y Fieri's Flavortown Tailgate							1030-1530		71. 2011 NO. 12. 131 NO. 12.	91st Ave and Cardinal's Way (SW Corr
STATE	Department of Public Safety  Gameday Check-in						X	10 10		NEL - not open to multic	Arizona State Fairgrounds
merchant dependent py Learn's  In the dispurse operated by Learn's  In the dispurse o	Phoenix							I			
## Propries provided by Level 1				X		-		0730-1600	500	-	
Company						X	VVV		91.400.000.000.000		
Section   Control (Market)   C								0477	50,000 peak Saturday		
Author Contenting Centre Content Conte								24/1	-		Sheraton Downtown
Property											
Committee   Comm	Social Media Command Center										
## Part County Date   Part Count	Opening Night							Doors at 1530, 2000-0000	10,000	NFL	
Committee   Comm	ectTV Party - CANCELLED						( X X X X			Baltroom	
Cell Food Office	st Committee Media Party					X		Th	3,000		The Farm at South Mountain
NOOS						10 10 10 10		Fri/Sat/Sun 1003-2200			
March   Marc											
and control from the co											
Series Control Control  or for Port Series  or									1,300/day		
April   Description   Descri											
## Company Control Control  ##	Jude Legends in Charity							1700-2000	700	Other - Commish and players expected to attend	
The Control of The Co								2000			
Applied   Appl									Delabour V	Other	
Residence Development								1830-2200			
Mail Purish									400	Other - Rooftop Pool Deck	
## March Committee   1										prayers	
See   Park										Other - private NFL media party	
## Annual Park (1994)								k ×	800-1,000	Other	
10 Che   17   17   18   18   18   18   18   18								4900 0000	500 at dinner 1500 at		
March Description   Marc								1800-0000	PCC		
MAL House							x				
Age   Description   Descript						10 31 11 12 10		0700-1800	250		
Assembly Depleterance   Asse	Jets										
Part	ndoff Ceremony							830	100	Invite Only	Phoenix Convention Center
Vicinity   September   Company   C	oLays Pop Up Restaurant						XXX			11 - Open to public	
See Bour Man Committee HQ Scott-displace Scott Statistics						XXX	V V V V				
Signet Book (Hard Committee HQ   Microsoft Center								2000 2000			
Temporary Control (Control (		+ + + + + + + + + + + + + + + + + + + +		<del>+++++++</del>		++++	11111	2000-2030	*		
Mail Notes   Mai	Scottsdale							<u> </u>			
Wines   Early   Earl	ste Management Phoenix Open					XXX	XXXX	0700-1800	50.000-250.000		TPC Scottsdale
Wines   Early   Earl							XXX	1800-2300	12,000-15,000	Other	Scottsdale Sports Complex
Alman   Park   Control   Country	Wives Fashion Show					XX		1300-1600	1,500		Hyatt at Gainey Ranch
X   Man   Party	Alumni Pro-Am Golf Tournament					X		0700-1700	200	Other	Silverleaf Country Club
X   Man   Party	Party ling Stone Magazine Party						X		1 000		Clayton House
NS Super Boal LVI Man Stage	X Maxim Party						X X	2200-0200	2,500	Other	15010 N. 78th Way
Particle Faulty	PN Super Bowl LVII Main Stage						C X X X X X X	0500-1200			7237 E. Main St.
Column   C											
Column   C	C Practice Facility								not open to public		Cardinals Practice Facility
Team Hold   Team Super Boal Experience	Duel						x		5,000		
Transport Super Rout Experience	Team Hotel							24/7	1,500	NFL	Wild Horse Pass Hotel
A	Twins Super Bowl Experience						Y	t toward -	100	Other	Gila River Resorts and Casir
Selection   Sele	cert						X	2100-0200	750		Gila River Resorts and Casir
Network Hotel  Masa  Final SCA  Masa  Final SCA  Masa  Final SCA  Masa							n x	1400-1900		Other	Gila River Resorts and Casir
Network Hotel  Masa  Final SCA  Masa  Final SCA  Masa  Final SCA  Masa	Paradise Valley									?	TBD
Network Hotel	House						( x x x x x				El Chorro
Secretary   Secr	Mesa									Other	Camelback Inn
## Event Such Celebration   X   X   X   X   X   X   X   X   X   X	mart 5K-9	X									Sloan Park
Transportation Staging Area	er Bowl Soul Celebration			X							Mesa Arts Center
Salt River Indian Community   X   1300-1700   5,000	Peorie		VIVIVIVIOIOI		VIVIVIO	VIVIVIO					
Safe River Indian Community   Safe River Indian Community   X   1300-1700   5,000   onc.   Safe River Indian Community   Saf	er Fest Arizona Football & Cheer Camp	X	X X X X X X X X	XXXXXXXX	A X X X X X X	XXXXX		0900-1300		NFL - not open to public Other	Peoria Sports Complex Pioneer Park
18 Fun House	Salt River Indian Community										
Tabling Stock Resort	d's Fun House						V .	1300-1700	5,000	Other	Salt River Fields Talking Stick Resort
#Events Pending"  Exercises  ly Metro Regional Public Transit Authority Exercise  2913-2022  TSA Phoenix EOC  A Phoenix EOC  B Phoenix EOC  TSA CREST C  TSA CREST	ts Illustrated Party						X			Other	Talking Stick Resort
Exercises	**Events Pending**						X			Other	Talking Stick Resort Locations TBD
913/2022   TSA											ELEMOND TOD
Intelligence and Cyber Security Summit   Intelligence and Cyber Security Security Summit   Intelligence and Cyber Security Secur		orcica						9/12/2022		TÇA	Phoenix ECC
Intelligence and Cyber Security Summit   12/7/2022 NFL		NOT CASE									
115/2022 CISA GRPSTC   115/2022 CISA GRPSTC   115/2022 CISA GRPSTC   115/2022 CISA GRPSTC   115/2023 CISA GRPSTC	Intelligence and Cyber Security Summit							12/7/2022		NFL	Phoenix EOC
Inc Health POD Exercise	77 Public Safety and Security TTX									FBI	State Farm Stadium GRPSTC
orHealth MCI Exercise X	lic Health POD Exercise	X X							6		Scottsdale Community Colle
Lary OF PIDERIA CVERTS 11 A X 1112/2023 HDB Process Convention Center Vision TX X 1112/2023 Phoenix Convention Center Vision Convention Center Vision TX X 1112/2023 Phoenix FOX:	rHealth MCI Exercise	X									HonorHealth
		X								HDB	Pricenix Convention Center





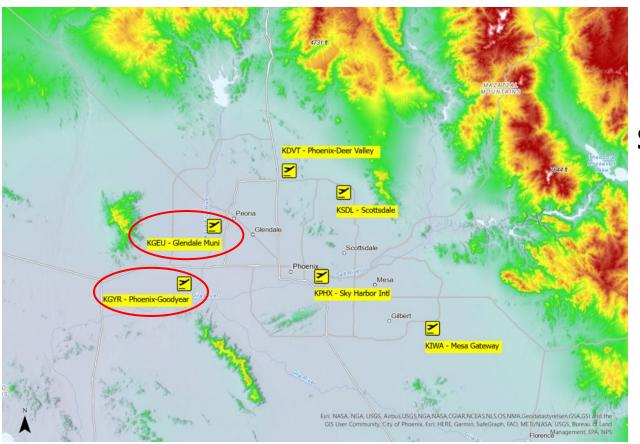
# DSS Planning & Execution



## **Temporary Terminal Aerodrome Forecasts (TAF)**

**KGYR -** Phoenix-Goodyear Airport

KGEU - Glendale Municipal Airport



Routine Forecast Times: 00Z, 06Z, 12Z, 18Z

**Practice Period:** 18Z 12/27/22 - 12Z 1/26/23

**Live Period:** 18Z 1/26/23 - 00Z 2/14/23

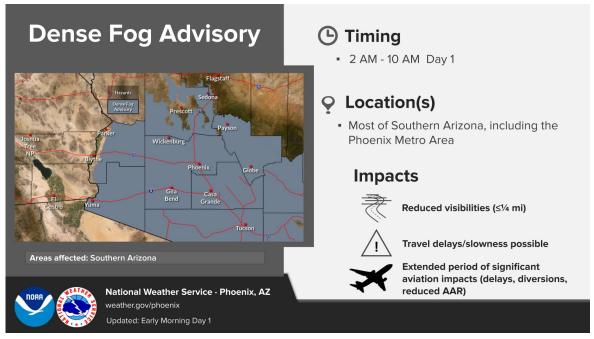
### **Setup Process Involved**

- Working with WRAM to submit a Request for Change form
- Gathering airport minimum thresholds and other pertinent information (tower hours, weather station info, runway config and switchpoints, etc.)
- Setting up AvnFPS in AWIPS
  - Added TAFs to afos2awips.txt and ensured TAFs were not excluded from WAN transmission

## PHX SB57 Planning Tabletop Exercise

January 18, 2023





- Planning/response for/to different kinds of incidents, including a weather scenario (dense fog)
- Hosted and led by the City of Phoenix Aviation Department in the AEOC at Sky Harbor



# **Aviation Email Weather Briefings** February 3-12, 2023



Center Weather Service Unit Albuquerque, NM Saturday, Feb 11, 2023

#### Super Bowl 57 and Waste Management Open Aviation Weather Impacts

A storm system in southern CA on Sunday will move eastward across AZ on Monday. Another storm will move into northern AZ on Tuesday. VFR conditions will prevail across AZ on Sunday with winds from the southeast to south at 6-12 KT with a few gusts possible in the 15-25 KT range, especially in the afternoon. There is an increasing chance for low VFR ceilings across the entire area Monday morning and afternoon. Light to moderate icing is expected areawide on Monday. Chances for an isolated thunderstorm in the PHX region are very low on Monday, though widely isolated showers will likely move across the valley. Thunderstorm chances to the north and south of the PHX region will be in the 10-33 percent range Monday morning through the late afternoon. Lighter winds are expected on Monday with speeds generally below 12 KT. Winds will ramp up on Tuesday across the entire area with southwest winds 15-25 KT and gusts 25-40 KT. IFR visibilities in snow showers, low VFR ceilings and light to moderate icing are possible on Tuesday north of the PHX region. Moderate turbulence is expected throughout the forecast period from Sunday through Tuesday.

#### WEATHER RISK OUTLOOK

Risk levels incorporate potential impacts from weather hazards and likelihood of occurrence. (See Explanation here.)

		Sun 2/12	Mon 2/13	3	Tue 2/14	
Scottsdale Airport (SDL)		Wind LLWS	CIG VIS Wind		Wind CIG	
Phoenix Airport (PHX)		Wind LLWS	CIG VIS Wind		Wind CIG	
Deer Valley Airport (DVT)		Wind LLWS	CIG VIS Wind		Wind CIG	
Glendale Airport (GEU)		Wind LLWS	CIG VIS Wind		Wind CIG	
Goodyear Airport (GYR)		Wind LLWS	CIG VIS Wind		Wind CIG	
Phoenix TRACON (P50)		TURB Wind LLWS	TURB CIG TS ICG		TURB Wind ICG CIG	
Risk Levels	Little to None	Minor	Moderate	Major	Extreme	

- Collaboration between CWSU Albuquerque & WFO Phoenix
- Impact-based weather forecasts 5 Phoenix-area airports and Phoenix TRACON
- Sent daily to aviation partners (FAA, airport managers, etc)
- Utilizes Western Region Weather Risk Outlook (WRO)

hoenix TRACON (P50)		
<b>₩</b> ICG	Sunday: None     Monday: LGT-MOD FZLVL-FL220; FZLVL from SFC-060     Tuesday, North of PHX Region: LGT-MOD FZLVL-FL180; FZLVL SFC-050	
<b>≓</b> TURB	Sunday: MOD F1150-F1450     Sunday, After 1400 MST: MOD BLW F1180     Monday: MOD BLW F1450     Tuesday: MOD BLW F1450     Tuesday: CHMOD F1180-F1400	
<b>≓</b> Wind	Sunday; SE/S 6-12 KT GUSTS 15-25 KT     Monday; S/SW 6-12 KT     Tuesday; SSW/SW 15-25 KT GUSTS 25-40 KT	
<b>≘</b> ciG	Sunday: >055     Monday: >025-055     Tuesday, North of PHX Region: >025-050     Tuesday, PHX Region & South of PHX Region: >055	
Thunderstorms	Sunday: None     Monday, North & South of PHX Region: 10%-33%     Monday, PHX Region: <10%     Tuesday: <10%	
≓uws	Sunday, 0600-1000: 10-19KT SFC-020     Monday, 0600-1000: <10 KT SFC-020     Tuesday, 0600-1000: <10 KT SFC-020	
₽vis	Sunday: 10 SM (VFR)     Monday, North & South of PHX Region: 3-SSM in Rain Showers     Monday, PMR Region: 5-10 SM (VFR)     Tuesday, North of PHX Region: 1-3 SM in Snow Showers     Tuesday, North of PHX Region: 1-3 SM in Snow Showers     Tuesday, PMR Region & South of PHX Region: 10SM (VFR)	

Hazard	Little to None	Minor	Moderate	Major	Extreme >90%	
rs - Thunderstorm Probability	<10%	10-33%	33-66%	66-90%		
CIG - Ceiling (hundreds of feet)	>055 (VFR/VMC)	>030 - 055 (VFR/VMC)	010 - 030 (MVFR)	005 - <010 (IFR/IMC)	< 005 (LIFR)	
VIS - Visibility (mi)	>10 sm (VFR)	>5 - 10 sm (VFR)	>3 - 5 sm (MVFR)	>1 - 3 sm (IFR)	<1 sm (LIFR)	
Wind - (kt)	wind < 8 kt gusts <15 kt	wind 8-14 kt gusts 15-24 kt	wind 15-19 kt gusts 25-34 kt	wind 20-30 kt gusts 35-50 kt	wind >30 kt gusts >50 kt	
URB - Turbulence None		Light	Moderate	Severe	Extreme	
ICG - Icing	None	Trace	Light	Moderate	Heavy/Severe	
LLWS	<10 kt	10-19 kts	20-29 kts	30-39 kts	>40 kts	

## **PHX AEOC Deployment**

February 12-13, 2023



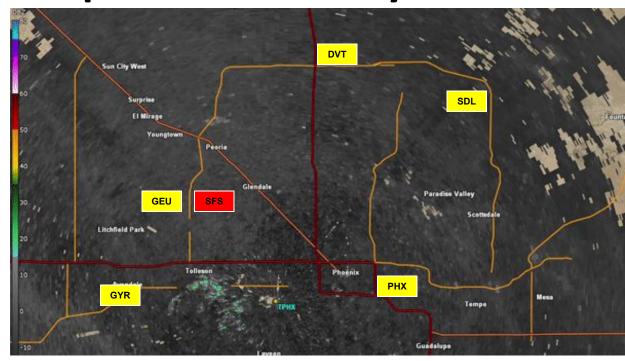
### **AEOC** activation (times in MST):

- 2/12 1600-2400 (PSR deployed 1600-2000)
- 2/13 0400-2400 (PSR deployed 0400-1630)
- 2/14 0400-1200

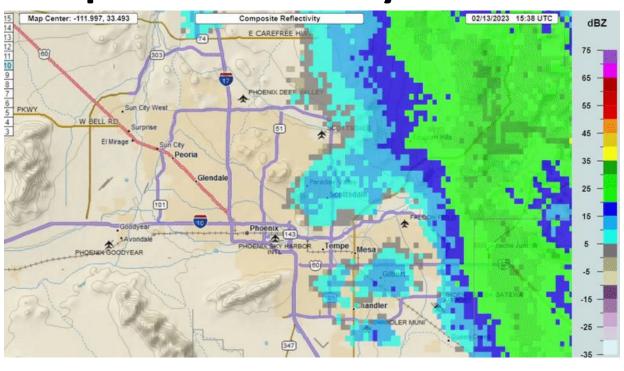


- Hourly round-table updates
- Virtual support through WebEx while not deployed
- Updates posted to WebEOC
- Activity logged with ICS-214 form
- Utilized AWIPS In The Cloud

## **Super Bowl Sunday**



## **Departure Monday**



A moisture boundary moved through between 1630-1800 MST with wind gusts up to 30-35 kts

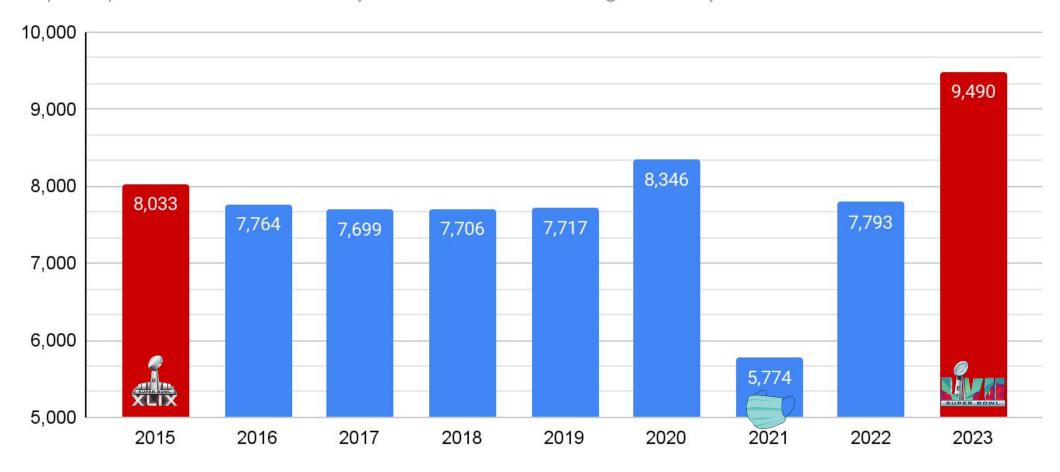
- SFS = State Farm Stadium

Scattered convective showers spread across the metro from late morning through the afternoon.

- 3-5K ft CIGs, lightning flashes, small hail
- Brief Ground Stops at DVT & FFZ and Ground
  Delays at PHX & SDL due to low CIGs
  10

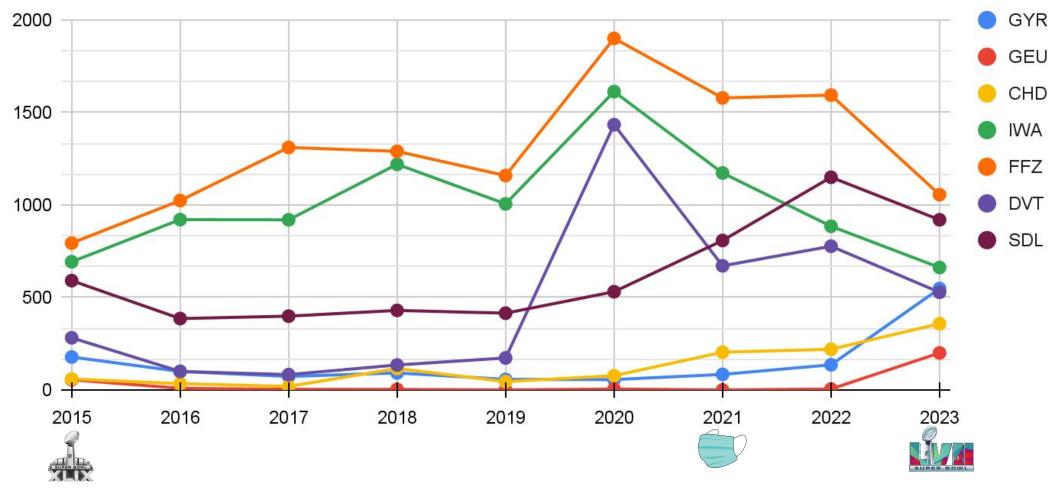
### Air Carrier (>60 seats) & Air Taxi (<60 seats) Totals - PHX

Airport Operations from Wednesday Before SB/WMPO through Tuesday After SB/WMPO



### Air Carrier (60+ seats) & Air Taxi (<60 seats) Totals - Phoenix Area Airports

Airport Operations from Wednesday Before SB/WMPO through Tuesday After SB/WMPO







#### **PASSENGERS**

200,000+ passengers 47,206 bags checked 2,132 bags used Early Bag Check



Avg. Day: 120,000+ passengers



#### **OPERATIONS**

1,691 takeoffs & landings 313 business/corporate flights

12 charter operations

Avg. Day: 1,200 takeoffs & landings

### GROUND TRANSPORTATION

Nearly 50,000 PHX Sky Train riders 23,657 rideshare operations 1,367 taxi operations



## **PHX's Busiest Day Ever**

**Press Release** 

~6 AM MST - 2 PM MST



#### **Other Airports:**

- DVT 91 Operations, GYR 137 Operations
- SDL Managed 490 corporate jets in <24 hrs (mostly departures); 780 transient/visiting jets lined the ramps end to end Thursday-Monday

### **WMPO Attendance Numbers**

- Monday (Practice): ~50,000

- Tuesday (Practice): ~100,000

Wednesday (Pro-Am): ~150,000

- Thursday (Round 1): ~200,000

- Friday (Round 2): ~250,000

- Saturday (Round 3): ~400,000\*

- Sunday (Final Round): ~150,000

Event Total: ~1.275 mil



<sup>\*</sup>One of the highest attended, if not the highest, single-day sporting event all time worldwide

# Phoenix Aviation Department Super Bowl AAR February 22, 2023

- All reviews from different PHX aviation departments and supporting agencies/stakeholders were **positive**
- All seemed to go **smoothly** on each of the key days, Team Arrivals (2/5), Charters (2/9), Gameday (2/12), Departure Monday (2/13), & Departure Tuesday (2/14), including at other CoP airports, GYR and DVT
- 3 visiting LAS employees, passed along <u>high praise and kudos</u> to the PHX team for how well executed and organized operations were
- Overall, operations were <u>well planned, organized, coordinated,</u>
   <u>communicated, and executed</u>







# Other DSS & Activities

## SBCC (Game Day @ SF Stadium) Feb 12

2 Meteorologists

## Glendale EOC Feb 11-12

1 Meteorologist

#### SB Command Center (Pre-Game) Feb 3-12

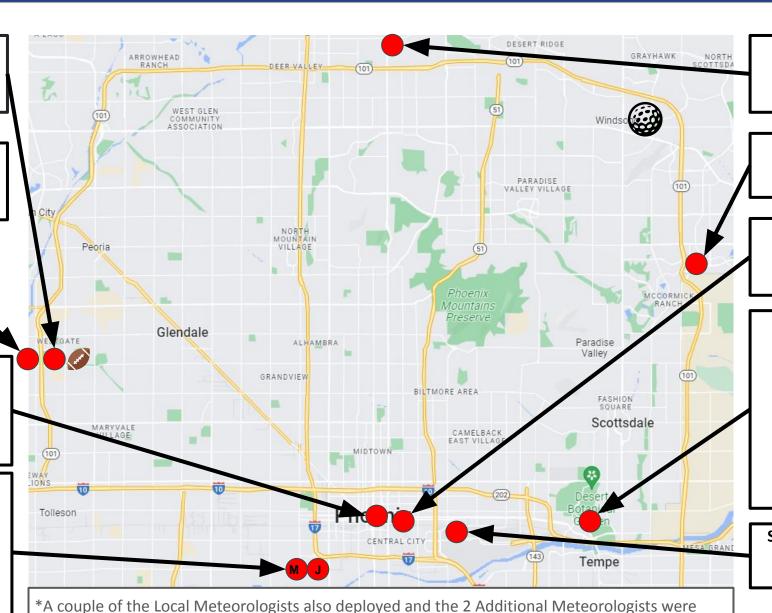
4 Meteorologists

## MACC & Phoenix EOC Feb 3-13

2 Meteorologists

## Joint Information Center (JIC) Feb 4-12

1 Meteorologist



former WFO Phoenix meteorologists that came back, from their new offices, to help.

#### FBI Intelligence Ops Center Feb 4-12

2 Meteorologists

#### Scottsdale EOC Feb 6-12

1 Meteorologist

#### CoP Tactical Ops Center Feb 9-12

2 Meteorologists

## WFO Phoenix Operations Feb 3-13

\*10 Local Meteorologists

\*2 Additional Meteorologists

1 Hydrologist

2 Electronic Technicians

1 Electronic Systems Analyst

1 Admin Support Assistant

1 Pathways Student

## Sky Harbor Airport EOC (AEOC) Feb 12-13

1 Meteorologist

# **Other DSS & Activities**

Weather Forecast Office Phoenix, AZ Friday, April 21



**AAR - After Action Review/Report** 

**AAR - Airport Arrival Rate** 

**AEOC - Airport Emergency Operations Center** 

**AvnFPS - Aviation Forecast Preparation System** 

**AWIPS - Advanced Weather Interactive Processing System** 

**CHD - Chandler Municipal Airport** 

**CIG** - Ceiling

**CoP - City of Phoenix** 

**CWSU - Center Weather Service Unit** 

**DSS - Decision Support Services** 

**DVT - Phoenix Deer Valley Airport** 

**EOC - Emergency Operations Center** 

**FAA - Federal Aviation Administration** 

**FBI - Federal Bureau of Investigation** 

**FFZ - Falcon Field Airport** 

**GEU - Glendale Municipal Airport** 

**GYR - Phoenix-Goodyear Airport** 

**ICS - Incident Command System** 

**IWA - Phoenix-Mesa Gateway Airport** 

**JIC - Joint Information Center** 

LAS - Harry Reid International Airport (Las Vegas, NV)

**MACC - Multi-Agency Coordination Center** 

**NWS - National Weather Service** 

**PHX - Phoenix Sky Harbor International Airport** 

**PSR - WFO Phoenix** 

**RWG - Resource Working Group** 

**SB57 - Super Bowl LVII** 

**SBCC - Super Bowl Command Center** 

**SDL - Scottsdale Airport** 

**TAF - Terminal Aerodrome Forecast** 

**TRACON - Terminal Radar Approach Control Facility** 

**TTX - Tabletop Exercise** 

**WAN - Wide Area Network** 

**WFO - Weather Forecast Office** 

**WMPO - Waste Management Phoenix Open** 

**WR - Western Region** 

**WRAM - Western Region Aviation Meteorologist** 

**WRO - Weather Risk Outlook** 

**ZAB - CWSU Albuquerque** 









NWS Phoenix Lead Meteorologist | Aviation Program Manager Email: sean.benedict@noaa.gov



