AIRPORT DATA

AVRA VALLEY AIRPORT (E14)

CITY: MARANA, ARIZONA — COUNTY: PIMA COUNTY, ARIZONA (OWNER)

RANGE: R. 11 E. TOWNSHIP: T. 12 S. — CIVIL TOWNSHIP: N/A

		EXISTING	ULTIMATE
NATIONAL PLAN of INTEGRATED AIRPORT SYSTEMS (NPIAS) SERVICE LEVEL		RELIEVER (RL)	SAME
AIRPORT CATEGORY		GENERAL AVIATION	SAME
DESIGN AIRCRAFT		GULFSTREAM III	B737-300
AIRPORT REFERENCE CODE (ARC): RUNWAY CATEGORY/DESIGN GROUP		C-II	C-III
AIRPORT ELEVATION (ABOVE MEAN SEA LEVEL)		2031'	2032'
MEAN MAXIMUM TEMPERATURE OF HOTTEST MONTH		102.8 (July)	SAME
AIRPORT REFERENCE POINT (ARP) COORDINATES (NAD 83)	Latitude	32°24'33.81"N	32°24'25.67"N
	Longitude	111°13'06.63"W	111°13'11.51"W
AIRPORT and TERMINAL NAVIGATIONAL AIDS		ROTATING BEACON	SAME
		NDB	SAME
		AWOS III	SAME
GPS APPROACH		NO	YES (RWY. 12L)

DEVIATIONS FROM FAA AIRPORT DESIGN STANDARDS

DEVIATION DESCRIPTION	EFFECTED DESIGN STANDARD	STANDARD	EXISTING	PROPOSED DISPOSITION
NONE		-	-	-

RUNWAY END COORDINATES (NAD 83)

		EXISTING	ULTIMATE (CALCULATED)
RUNWAY 03	Latitude	32°24'10.25"N	32°24'06.79"N
	Longitude	111°13'24.91"W	111°13'29.06"W
DISPLACED THRESHOLD RUNWAY 03	Latitude	32°24'12.05"N	N/A
	Longitude	111°13'22.75"W	N/A
RUNWAY 21	Latitude	32°24'39.40"N	SAME
	Longitude	111°12'49.99"W	SAME
RUNWAY 12R	Latitude	NA	32°24'25.45"N
	Longitude	NA	111°13'42.98"W
RUNWAY 30L	Latitude	NA	32°23'52.58"N
	Longitude	NA	111°13'04.20"W
RUNWAY 12L	Latitude	32°25'03.62"N	SAME
	Longitude	111°13'34.36"W	SAME
RUNWAY 30R	Latitude	32°24'14.93"N	32°24'12.82"N
	Longitude	111°12'37.91"W	111°12'35.48"W

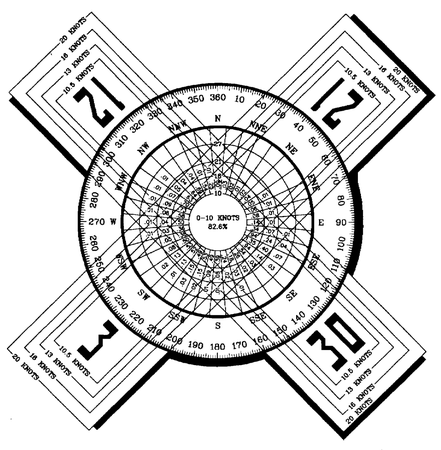
NOTE: EXISTING RUNWAY COORDINATES (LAT/LONGS) AND ELEVATIONS ARE FROM A FIELD SURVEY CONDUCTED IN JUNE 1999 BY THE PIMA COUNTY DOT SURVEY DIVISION. OTHER LAT/LONG COORDINATES AND ELEVATIONS LABELED AS CALCULATED WERE COMPUTED FROM THE ABOVE REFERENCED SURVEYED POINTS USING THE "GEODETIC CALCULATOR" PROGRAM (v) 1.70, WRITTEN BY THOMAS A. HILQUIST, JANUARY 1996 AS WELL AS FROM EXISTING SURVEYED TOPOGRAPHIC DATA. ANY LAT/LONG COORDINATES AND ELEVATIONS PERTAINING TO FUTURE FACILITIES CONSTRUCTION ARE SUBJECT TO FIELD VERIFICATION AND REVISION BASED UPON ACTUAL FIELD CONDITIONS WHICH MAY ENCOUNTERED DURING FUTURE AIRPORT CONSTRUCTION ACTIVITIES.

RUNWAY DATA

	RUNWAY 3-21		RUNWAY 12R-30L		RUNWAY 12L-30R	
	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE
RUNWAY CATEGORY/AIRCRAFT DESIGN GROUP	B-I	B-II	--	B-II	C-II	C-III
RUNWAY AZIMUTH	45.09917	SAME	--	134.520	134.520	SAME
RUNWAY BEARING	N45°05'57"E	SAME	--	S44°31'12"E	S44°31'12"E	SAME
RUNWAY DIMENSIONS	4201' X 75'	4700' X 75'	--	4700' X 75'	6901' X 100'	7200' X 100'
MAXIMUM RUNWAY ELEVATION (above MSL)	2024.6'	SAME	--	2019'	2031.3'	2032.3'
WIND COVERAGE (in %)	SEE ALL WEATHER AND IFR WIND ROSE DATA BELOW				LEFT	
APPROACH VISIBILITY MINIMUMS	+1 MILE/+1 MILE	SAME/SAME	--	+1 MILE/+1 MILE	+1 MILE/+1 MILE	+1/2-MILE/+1-MILE
FAR PART 77 CATEGORY	VISUAL/VISUAL	SAME/SAME	--	VISUAL/VISUAL	VISUAL/VISUAL	PREC./NONPREC.
RUNWAY INSTRUMENTATION	VISUAL/VISUAL	SAME/SAME	--	VISUAL/VISUAL	VISUAL/VISUAL	PREC./NONPREC.
RUNWAY APPROACH SURFACES	20:1/20:1	SAME/SAME	--	20:1/20:1	20:1/20:1	50:1/20:1
RUNWAY THRESHOLD DISPLACEMENT	260'	NONE	--	NONE	NONE	SAME
RUNWAY STOPWAY	NONE	SAME	--	NONE	NONE	SAME
RUNWAY SAFETY AREA (RSA)	4681' X 120'	5300' X 150'	--	5300' X 150'	8901' X 500'	9200' X 500'
RSA DISTANCE BEYOND EACH RUNWAY END	240'	300'	--	300'	1000'	1000'
RUNWAY OBJECT FREE AREA (OFA)	4681' X 400'	5300' X 500'	--	5300' X 500'	8901' X 800'	9200' X 800'
RUNWAY OBSTACLE FREE ZONE (OFZ)	4601' X 400'	5100' X 450'	--	5100' X 400'	7301' X 400'	7600' X 400'
TAKEOFF RUN AVAILABLE (TORA)	3901'/4201'	4700'/4700'	--	4700'/4700'	6901'/6901'	7200'/7200'
TAKEOFF DISTANCE AVAILABLE (TODA)	3901'/4201'	4700'/4700'	--	4700'/4700'	6901'/6901'	7200'/7200'
ACCELERATE-STOP DISTANCE AVAILABLE (ASDA)	3901'/4201'	4700'/4700'	--	4700'/4700'	6901'/6901'	7200'/7200'
LANDING DISTANCE AVAILABLE (LDA)	3901'/4201'	4700'/4700'	--	4700'/4700'	6901'/6901'	7200'/7200'
RUNWAY PAVEMENT MATERIAL	ASPHALTIC CONCRETE	SAME	--	ASPHALTIC CONCRETE	ASPHALTIC CONCRETE	SAME
PAVEMENT SURFACE TREATMENT	NONE	SAME	--	NONE	NONE	SAME
PAVEMENT STRENGTH (in thousand lbs.) [1]	12.5(S)	30(D)	--	30(D)	12.5(S)	138.5(D)
RUNWAY EFFECTIVE GRADIENT (in %)	0.23	SAME	--	0.15	0.29	0.30
RUNWAY LIGHTING	MIRL	SAME	--	MIRL	MIRL	SAME
RUNWAY MARKING	VISUAL/VISUAL	SAME	--	VISUAL/VISUAL	VISUAL/VISUAL	PREC./NONPREC.
RUNWAY APPROACH LIGHTING	NONE	SAME	--	NONE	NONE	MALSR
TAXIWAY PAVEMENT MATERIAL	ASPHALT	SAME	--	ASPHALT	ASPHALT	SAME
TAXIWAY LIGHTING	NONE	MITL	--	MITL	NONE	MITL
TAXIWAY MARKING	CENTERLINE/EDGE	SAME	--	CENTERLINE/EDGE	CENTERLINE	CENTERLINE/EDGE
NAVIGATIONAL AIDS	NDB	PAPI-2 (BOTH)	--	NDB	NDB	SAME
	--	--	--	--	--	--
	--	--	--	--	--	--
	--	--	--	--	--	--
VISUAL AIDS	VASI-2 (BOTH)	SAME	--	PAPI-2 (BOTH)	PAPI-4 (BOTH)	SAME
	--	REIL (Both)	--	REIL (BOTH)	REIL (BOTH)	SAME
	--	--	--	--	--	GPS (RWY. 12L)
	--	--	--	--	--	--

[1] Pavement strengths are expressed in Single(S) and Dual(D) wheel loading capacities.

NOTE: EXISTING OBJECT FREE AREAS FOR RUNWAY 12-30 THAT EXTEND OFF-AIRPORT ARE PRESENTLY UNREGULATED.



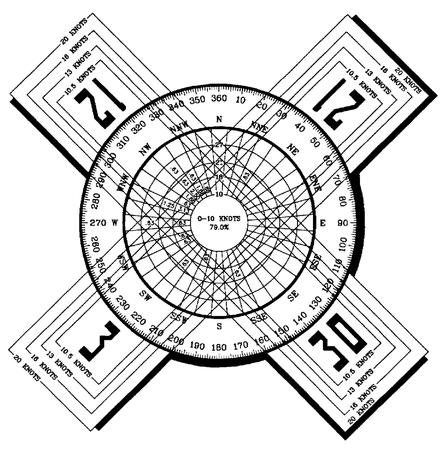
ALL WEATHER WIND ROSE

ALL WEATHER WIND COVERAGE				
RUNWAYS	10.5 KNOTS (12 M.P.H.)	13 KNOTS (15 M.P.H.)	16 KNOTS (18 M.P.H.)	20 KNOTS (23 M.P.H.)
Runway 3-21	89.39%	93.79%	98.34%	99.62%
Runway 12-30	94.83%	97.12%	99.03%	99.76%
Combined	99.39%	99.86%	99.98%	100.00%

Magnetic Variance
11° 59' East (April 1999)
Annual Rate of Change
0.3' West (April 1998)

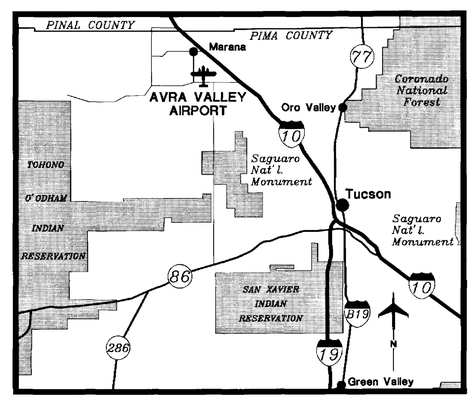
SOURCE:
NOAA National Climatic Center
Asheville, North Carolina
Tucson International Airport
Tucson, Arizona

OBSERVATIONS:
87,644 All Weather Observations
160 IFR CAT1601 Observations
1988 - 1997



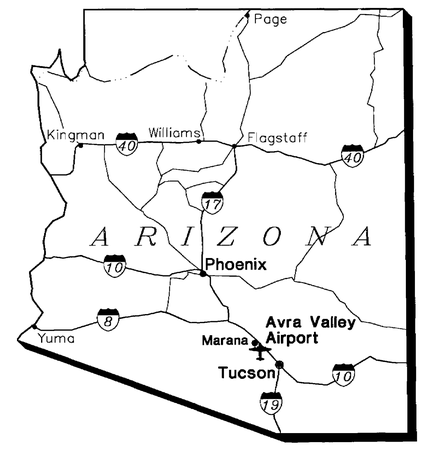
IFR WIND ROSE

IFR CAT-I WIND COVERAGE				
RUNWAYS	10.5 KNOTS (12 M.P.H.)	13 KNOTS (15 M.P.H.)	16 KNOTS (18 M.P.H.)	20 KNOTS (23 M.P.H.)
Runway 3-21	83.82%	88.84%	95.15%	98.42%
Runway 12-30	95.62%	96.64%	97.62%	99.05%
Combined	99.21%	99.38%	99.68%	100.00%



VICINITY MAP

NOT TO SCALE



LOCATION MAP

NOT TO SCALE

No.	REVISIONS	DATE	BY	APP'D.
2	UPDATE AIRPORT MASTER PLAN			
1	SIGNIFICANT CHANGES (FAA APPROVAL - UNCONDITIONAL)	2/18/98	JMH	FAA

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AVRA VALLEY AIRPORT
MARANA NORTHWEST REGIONAL AIRPORT

DATA SHEET

TOWN OF MARANA, PIMA COUNTY, ARIZONA

PLANNED BY: W.S. Holland/James M. Harris, P.E.
DETAILED BY: W.S. Holland
APPROVED BY: James M. Harris, P.E.
July 2, 1999 — SHEET 1 OF 9

Coffman Associates
Airport Consultants