

INSTRUMENT APPROACH PROCEDURE CHARTS

**A** IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non-precision approaches and approaches with vertical guidance [NDB, VOR, LOC, TACAN, LDA, SDF, VOR/DME, ASR, RNAV (GPS) or RNAV (RNP)] are 800-2. Standard alternate minimums for precision approaches (ILS, PAR, or GLS) are 600-2. Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility, absence of weather reporting service, or lack of adequate navigation coverage. Civil pilots see FAR 91. IFR Alternate Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Minimums Notes for alternate airfield suitability.

NAME	ALTERNATE MINIMUMS	NAME	ALTERNATE MINIMUMS
<b>ALTURAS, CA</b>		<b>CONCORD, CA</b>	
ALTURAS		BUCHANAN	
MUNI (AAT).....	<b>RNAV (GPS) Rwy 31</b>	FIELD (CCR).....	<b>LDA Rwy 19R<sup>12</sup></b>
Category B, 900-2.			<b>RNAV (GPS) Rwy 19R<sup>3</sup></b>
			<b>VOR Rwy 19R<sup>2</sup></b>
<b>ARCATA/EUREKA, CA</b>		<sup>1</sup> NA when control tower closed.	
CALIFORNIA REDWOOD COAST-HUMBOLDT		<sup>2</sup> Category C, 1000-2¼; Category D, 1300-3.	
COUNTY (ACV).....	<b>RNAV (GPS) Rwy 1<sup>1</sup></b>	<sup>3</sup> Categories A, B, 1000-2; Category C, 1000-3;	
	<b>RNAV (GPS) Rwy 32<sup>2</sup></b>	Category D, 1300-3.	
<sup>1</sup> Categories A, B, 900-2; Category C, 900-2¼;			
Category D, 900-2¼.			
<sup>2</sup> Category D, 800-2¼.		<b>COLUMBIA, CA</b>	
		COLUMBIA (O22).....	<b>RNAV (GPS) Rwy 35</b>
		Categories A, B, 1100-2; Category C, 1100-3.	
<b>ATWATER, CA</b>		<b>CRESCENT CITY, CA</b>	
CASTLE (MER).....	<b>ILS or LOC/DME Rwy 31<sup>1</sup></b>	JACK MC NAMARA	
	<b>RNAV (GPS) Rwy 13</b>	FIELD (CEC).....	<b>RNAV (GPS) Rwy 12</b>
	<b>RNAV (GPS) Rwy 31</b>		<b>RNAV (GPS) Rwy 36</b>
	<b>VOR/DME Rwy 31</b>		<b>VOR Rwy 12</b>
NA when local weather not available.			<b>VOR/DME Rwy 12</b>
<sup>1</sup> NA when control tower closed.			<b>VOR/DME Rwy 36</b>
		NA when local weather not available.	
<b>AUBURN, CA</b>		<b>FRESNO, CA</b>	
AUBURN MUNI (AUN).....	<b>RNAV (GPS) Rwy 7</b>	FRESNO YOSEMITE	
Category B, 900-2.		INTL (FAT).....	<b>ILS Y or LOC Y Rwy 29R<sup>1</sup></b>
			<b>LOC Y Rwy 11L<sup>2</sup></b>
			<b>VOR/DME or TACAN Rwy 11L<sup>2</sup></b>
			<b>VOR/DME or TACAN Rwy 29R<sup>2</sup></b>
<b>BISHOP, CA</b>		<sup>1</sup> ILS, LOC, Category E, 900-2¼.	
BISHOP (BIH).....	<b>LDA Rwy 17<sup>1</sup></b>	<sup>2</sup> Category E, 900-2¼.	
	<b>RNAV (GPS) Y Rwy 12<sup>2</sup></b>		
	<b>RNAV (GPS) Z Rwy 12<sup>3</sup></b>		
	<b>VOR or GPS-A<sup>4</sup>, 3300-3.</b>		
<sup>1</sup> Categories A, B, 2300-2; Categories C, D, 2300-3.			
<sup>2</sup> Categories A, B 2500-2; Category C, 2500-3.			
<sup>3</sup> Categories A, B, 2300-2; Category C, 2300-3.			
<sup>4</sup> NA when Bishop altimeter setting not available.			
<b>BYRON, CA</b>		<b>GRASS VALLEY, CA</b>	
BYRON (C83).....	<b>RNAV (GPS) Rwy 30</b>	NEVADA	
Category D, 800-2½.		COUNTY (GOO).....	<b>RNAV (GPS) Rwy 7</b>
		Category D, 800-2¼.	
<b>CHICO, CA</b>		<b>HALF MOON BAY, CA</b>	
CHICO MUNI (CIC).....	<b>VOR/DME Rwy 31R</b>	HALF MOON	
NA when control tower closed except for operators		BAY (HAF).....	<b>RNAV (GPS) Y Rwy 12</b>
with approved weather reporting service.			<b>RNAV (GPS) Y Rwy 30</b>
		NA when local weather not available.	

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**HANFORD, CA**HANFORD MUNI (HJO).....RNAV (GPS) Rwy 32  
RNAV (GPS)-A  
VOR-A

NA when local weather not available.

**HAYWARD, CA**HAYWARD  
EXECUTIVE (HWD).....LOC/DME Rwy 28L<sup>1</sup>  
RNAV (GPS) Rwy 28L  
VOR/DME-A

NA when local weather not available.

<sup>1</sup>NA when control tower closed.**HOLLISTER, CA**HOLLISTER  
MUNI (CVH).....RNAV (GPS) Rwy 31

NA when local weather not available.

**LINCOLN, CA**LINCOLN RGNL/KARL  
HARDER FIELD (LHM).....RNAV (GPS) Rwy 15  
RNAV (GPS) Rwy 33

NA when local weather not available.

**LIVERMORE, CA**LIVERMORE MUNI (LVK).....ILS Rwy 25R<sup>1</sup>  
LOC Rwy 25R<sup>23</sup>  
RNAV (GPS) Rwy 25R<sup>4</sup><sup>1</sup>NA when control tower closed.<sup>2</sup>NA when tower closed.<sup>3</sup>LOC, Categories A, B, 1600-2; Categories C, D, 1600-3.<sup>4</sup>Category D, 1400-3.**MAMMOTH LAKES, CA**MAMMOTH  
YOSEMITE (MMH).....RNAV (GPS) Rwy 27  
Categories A, B, 1300-2; Category C, 1300-3.**MARYSVILLE, CA**YUBA COUNTY (MYV).....RNAV (GPS) Rwy 14  
RNAV (GPS) Rwy 32

NA when local weather not available.

**MERCED, CA**MERCED RGNL/MACREADY  
FIELD (MCE).....ILS or LOC Rwy 30<sup>1</sup>  
LOC BC Rwy 12<sup>1</sup>  
RNAV (GPS) Rwy 30<sup>2</sup>  
VOR Rwy 30<sup>2</sup><sup>1</sup>NA when class E airspace not in effect.<sup>2</sup>NA when local weather not available.

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**MODESTO, CA**MODESTO CITY-COUNTY-HARRY SHAM  
FIELD (MOD).....ILS or LOC Rwy 28R<sup>1</sup>  
RNAV (GPS) Rwy 28R<sup>2</sup><sup>1</sup>NA when control tower closed.<sup>2</sup>NA when local weather not available.**MONTEREY, CA**MONTEREY  
RGNL (MRY).....ILS or LOC Rwy 10R<sup>12</sup>  
LOC Rwy 28L<sup>13</sup>  
RNAV (GPS) Rwy 10R<sup>6</sup>  
RNAV (GPS) Y Rwy 28L<sup>4</sup>  
RNAV (RNP) Z Rwy 28L<sup>5</sup><sup>1</sup>NA when control tower closed.<sup>2</sup>LOC, Category C, 1100-3; Category D, 1600-3.<sup>3</sup>Categories A, B, 1700-2, Categories C, D, 1700-3.<sup>4</sup>Categories A, B, 900-2, Category C, 1100-3.<sup>5</sup>Categories A, B, C, 1000-3.<sup>6</sup>Category C, 1100-3; Category D, 1600-3.**MOUNTAIN VIEW, CA**MOFFET FEDERAL  
AIRFIELD (NUQ).....RNAV (GPS) Rwy 14L  
RNAV (GPS) Rwy 32L

Category D, 800-2¼.

**NAPA, CA**NAPA  
COUNTY (APC).....ILS or LOC Rwy 36L<sup>12</sup>  
RNAV (GPS) Y Rwy 36L  
RNAV (GPS) Z Rwy 36L  
VOR Rwy 6<sup>3</sup>

NA when local weather not available.

<sup>1</sup>NA when control tower closed.<sup>2</sup>ILS, Category A, 700-2; Category B, 800-2; Category C, 900-2¾; Category D, 1200-3.

LOC, Category C, 900-2¾, Category D, 1200-3.

<sup>3</sup>Category D, 1300-3.**OAKLAND, CA**METROPOLITAN  
OAKLAND INTL (OAK).....ILS or LOC Rwy 12<sup>1</sup>  
ILS or LOC Rwy 30<sup>1</sup>  
ILS or LOC/DME Rwy 28R<sup>1</sup>  
RNAV (GPS) Rwy 10L<sup>2</sup>  
RNAV (GPS) Rwy 10R<sup>2</sup>  
RNAV (GPS) Y Rwy 12<sup>2</sup>  
RNAV (GPS) Y Rwy 28L<sup>2</sup>  
RNAV (GPS) Y Rwy 28R<sup>2</sup>  
RNAV (GPS) Y Rwy 30<sup>2</sup>  
VOR Rwy 10R<sup>2</sup><sup>1</sup>ILS, Category C, 700-2; Category D, 1400-3;

LOC, Category D, 1400-3.

<sup>2</sup>Category D, 1400-3.

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**PALO ALTO, CA**

PALO ALTO (PAO).....VOR/DME Rwy 31  
NA when control tower closed.

**PETALUMA, CA**

PETALUMA MUNI (O69).....RNAV (GPS) Rwy 29  
NA when local weather not available.

**PLACERVILLE, CA**

PLACERVILLE (PVF).....RNAV (GPS) Rwy 5  
NA when local weather not available.

**RED BLUFF, CA**

RED BLUFF  
MUNI (RBL).....RNAV (GPS) Rwy 15<sup>1</sup>  
RNAV (GPS) Rwy 33  
VOR Rwy 33  
VOR/DME Rwy 15<sup>1</sup>

NA when local weather not available.  
<sup>1</sup>Category D, 800-2¼.

**REDDING, CA**

REDDING  
MUNI (RDD).....ILS or LOC/DME Rwy 34<sup>123</sup>  
LOC/DME BC Rwy 16<sup>23</sup>  
RNAV (GPS) Rwy 34<sup>3</sup>  
VOR Rwy 34<sup>4</sup>

<sup>1</sup>ILS, Categories A, B, C, D, 700-2; Category E, 900-3. LOC, Category E, 900-3.  
<sup>2</sup>NA when control tower closed.  
<sup>3</sup>NA when local weather not available.  
<sup>4</sup>Category C, 800-2¼; Category D, 800-2½.

**SACRAMENTO, CA**

SACRAMENTO  
EXECUTIVE (SAC).....ILS or LOC Rwy 2<sup>1</sup>  
RNAV (GPS) Rwy 2  
VOR Rwy 2

NA when local weather not available.  
<sup>1</sup>NA when control tower closed.

SACRAMENTO

INTL (SMF).....ILS or LOC Rwy 16L<sup>3</sup>  
ILS or LOC Rwy 34L<sup>2</sup>  
RNAV (GPS) Y Rwy 16L<sup>1</sup>  
RNAV (GPS) Y Rwy 34R<sup>1</sup>

<sup>1</sup>Category D, 900-2¾.  
<sup>2</sup>NA when local weather not available.  
<sup>3</sup>ILS, LOC Category D, 900-2¾.

SACRAMENTO

MATHER (MHR).....ILS or LOC Rwy 22L<sup>12</sup>  
RNAV (GPS) Rwy 4R<sup>3</sup>  
RNAV (GPS) Rwy 22L<sup>3</sup>

<sup>1</sup>NA when control tower closed.  
<sup>2</sup>LOC, Category D, 800-2¼; Category E, 800-2½.  
<sup>3</sup>Category D, 800-2¼.

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**SALINAS, CA**

SALINAS MUNI (SNS).....ILS Rwy 31<sup>1</sup>  
LOC/DME Rwy 31<sup>2</sup>  
RNAV (GPS) Rwy 13<sup>12</sup>  
RNAV (GPS) Y Rwy 31<sup>12</sup>  
RNAV (GPS) Z Rwy 31<sup>1</sup>  
VOR Rwy 13<sup>3</sup>

<sup>1</sup>NA when local weather not available.  
<sup>2</sup>Category D, 800-2¼.  
<sup>3</sup>Category D, 1000-3.

**SAN ANDREAS, CA**

CALAVERAS CO-MAURY RASMUSSEN  
FIELD (CPU).....RNAV (GPS) Rwy 31  
Category C, 1100-3.

**SAN CARLOS, CA**

SAN CARLOS (SQL).....RNAV (GPS) Y Rwy 30<sup>1</sup>  
RNAV (GPS) Z Rwy 30<sup>2</sup>

NA when local weather not available.  
<sup>1</sup>Categories A, B, 1300-2.  
<sup>2</sup>Categories A, B, 900-2.

**SAN FRANCISCO, CA**

SAN FRANCISCO  
INTL (SFO).....ILS or LOC Rwy 19L<sup>1</sup>  
ILS or LOC Rwy 28L<sup>2</sup>  
RNAV (GPS) Rwy 10L<sup>3</sup>  
RNAV (GPS) Rwy 28L<sup>4</sup>  
RNAV (GPS) Y Rwy 10R<sup>3</sup>  
RNAV (GPS) Z Rwy 28R<sup>5</sup>  
RNAV (RNP) Z Rwy 10R<sup>6</sup>

<sup>1</sup>LOC, Categories A, B, 1800-2; Categories C, D, 1800-3.  
<sup>2</sup>ILS, Categories A, B, C, D, 800-2; LOC, Category A, 900-2; Category B, 1000-2; Category C, 1600-3.  
<sup>3</sup>Categories A, B, 1200-2, Categories C, D, 1200-3.  
<sup>4</sup>Categories A, B, 1100-2; Category C, 1600-3; Category D, 1100-2½.  
<sup>5</sup>Category B, 1000-2; Category C, 1600-3.  
<sup>6</sup>Categories A, B, C, D, 1100-4.

**SAN JOSE, CA**

NORMAN Y MINETA SAN JOSE  
INTL (SJC).....ILS or LOC Rwy 12R  
ILS or LOC Rwy 30L

NA when control tower closed.

**SAN MARTIN, CA**

SAN MARTIN (E16).....RNAV (GPS) Rwy 32  
Categories A, B, 1000-2.

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**SANTA ROSA, CA**

CHARLES M SCHULZ-SONOMA  
COUNTY (STS).....**ILS or LOC Rwy 32**<sup>123</sup>  
**RNAV (GPS) Rwy 14**<sup>24</sup>  
**RNAV (GPS) Rwy 2**<sup>24</sup>  
**RNAV (GPS) Rwy 32**<sup>4</sup>  
**VOR/DME Rwy 14**<sup>24</sup>

- <sup>1</sup>NA when control tower closed.
- <sup>2</sup>NA when local weather not available.
- <sup>3</sup>ILS, LOC, Category C, 1000-3; Category D, 1300-3.
- <sup>4</sup>Category C, 1000-3; Category D, 1300-3.

**STOCKTON, CA**

STOCKTON METROPOLITAN  
(SCK).....**ILS or LOC Rwy 29R**  
NA when control tower closed.  
<sup>1</sup>ILS, Categories C, D, 700-2.

**SUSANVILLE, CA**

SUSANVILLE  
MUNI (SVE).....**RNAV (GPS) Rwy 29**  
Categories A, B, 1700-2; Categories, C, C, 1700-3.

**UKIAH, CA**

UKIAH MUNI (UKI).....**RNAV (GPS)-B**<sup>1</sup>  
**VOR-A**<sup>2</sup>  
<sup>1</sup>Categories A, B, 2000-2; Categories C, D, 2000-3.  
<sup>2</sup>Categories A, B, 2800-2; Categories C, D, 2800-3.

**VACAVILLE, CA**

NUT TREE (VCB).....**RNAV (GPS) Rwy 20**<sup>1</sup>  
**VOR-A**<sup>2</sup>  
<sup>1</sup>Category C, 900-2½; Category D, 1300-3.  
<sup>2</sup>Categories A, B, 900-2; Category C, 900-2½; Category D, 1300-3.

**WATSONVILLE, CA**

WATSONVILLE  
MUNI (WVI).....**RNAV (GPS) Rwy 2**  
**VOR-A**<sup>1</sup>  
NA when local weather not available.  
<sup>1</sup>Categories A, B, 1200-2; Categories C, D, 1200-3.

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