



INSTRUMENT APPROACH PROCEDURE CHARTS



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

**ARCATA-EUREKA, CA**  
ARCATA (ACV) ..... ILS Z Rwy 32  
ILS Y or LOC/DME Rwy 32<sup>1</sup>  
RNAV (GPS) Rwy 1<sup>3</sup>  
RNAV (GPS) Rwy 14  
RNAV (GPS) Rwy 32<sup>2</sup>  
VOR/DME Rwy 14

NA when local weather not available.

<sup>1</sup>ILS, Categories A, B, C, D, 700-2.

<sup>2</sup>Category D, 800-2¼.

<sup>3</sup>Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.

**ATWATER, CA**

CASTLE (MER) ..... ILS or LOC/DME Rwy 31<sup>1</sup>  
RNAV (GPS) Rwy 13  
RNAV (GPS) Rwy 31  
VOR/DME Rwy 31

NA when local weather not available.

<sup>1</sup>NA when control tower closed.

**AUBURN, CA**

AUBURN MUNI (AUN) ..... RNAV (GPS) Rwy 7  
NA when local weather not available.

**BISHOP, CA**

BISHOP (BIH) ..... LDA/DME Rwy 16<sup>1</sup>  
RNAV (GPS) Y Rwy 12<sup>2</sup>  
RNAV (GPS) Z Rwy 12<sup>3</sup>  
VOR or GPS-A<sup>4</sup>, 3300-3

<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.

**CHICO, CA**

CHICO MUNI (CIC) ..... VOR/DME Rwy 31R  
NA when control tower closed except for operators with approved weather reporting service.

NAME ALTERNATE MINIMUMS

**CONCORD, CA**  
BUCHANAN FIELD (CCR) .....  
RNAV (GPS) Y Rwy 19R  
Categories A, B, 1000-2; Category C, 1000-3.

**COLUMBIA, CA**

COLUMBIA (O22) ..... RNAV (GPS) Rwy 35  
Categories A, B, 1100-2; Category C, 1100-3.

**CRESCENT CITY, CA**

JACK MC NAMARA  
FIELD (CEC) ..... RNAV (GPS) Rwy 12  
RNAV (GPS) Rwy 36  
VOR Rwy 12  
VOR/DME Rwy 12  
VOR/DME Rwy 36

NA when local weather not available.

**FRESNO, CA**

FRESNO YOSEMITE  
INTL (FAT) ..... ILS or LOC/DME Rwy 29R  
LOC Rwy 11L  
VOR/DME or TACAN Rwy 11L  
VOR/DME or TACAN Rwy 29R  
Category E, 900-2¾.

**GRASS VALLEY, CA**

NEVADA COUNTY  
AIR PARK (GOO) ..... RNAV (GPS) Rwy 7  
NA when local weather not available.  
Category D, 800-2¼.

**HALF MOON BAY, CA**

HALF MOON  
BAY (HAF) ..... RNAV (GPS) Y Rwy 12  
RNAV (GPS) Y Rwy 30  
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>**  
**RNAV (GPS) Rwy 25R<sup>23</sup>**

<sup>1</sup>Category D, 800-2¼.

<sup>2</sup>NA when local weather not available.

<sup>3</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 12<sup>2</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.

NAME ALTERNATE MINIMUMS  
**MODESTO, CA**  
 MODESTO CITY-COUNTY-HARRY SHAM  
 FIELD (MOD) ..... **ILS or LOC/DME Rwy 28R<sup>1</sup>**  
**RNAV (GPS) Rwy 28R**

NA when local weather not available.

<sup>1</sup>NA when control tower closed.

**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>ILS, Categories A, B, 700-2; Category C, 1100-3; Category D, 1600-3. 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.

**NAPA, CA**  
 NAPA COUNTY (APC) .... **ILS or LOC Rwy 36L<sup>12</sup>**  
**RNAV (GPS) Y Rwy 36L<sup>3</sup>**  
**RNAV (GPS) Z Rwy 36L**  
**VOR Rwy 6<sup>4</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, 900-2¼; Category D, 1200-3. LOC, Category C, 900-2¼, Category D, 1200-3.

<sup>3</sup>Categories A, B, 1300-2; Categories C, D, 1300-3.

<sup>4</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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NAME ALTERNATE MINIMUMS  
**OROVILLE, CA**  
 OROVILLE MUNI (OVE) ..... **RNAV (GPS) Rwy 2**  
**VOR-A**

NA when local weather not available.

**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, 800-2½.

**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, 800-2½; 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, 900-2½.  
<sup>2</sup>NA when local weather not available.  
<sup>3</sup>ILS, LOC Category D, 900-2½.

NAME ALTERNATE MINIMUMS  
**SACRAMENTO, CA (CON'T)**  
 SACRAMENTO  
 MATHER (MHR) ..... **ILS or LOC/DME Rwy 22L**  
 NA when control tower closed.  
 Category E, 800-2½.

**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, 800-2½.  
<sup>3</sup>Category D, 1000-3.

**SAN FRANCISCO, CA**  
 SAN FRANCISCO  
 INTL (SFO) ..... **ILS or LOC Rwy 19L<sup>2</sup>**  
**ILS or LOC Rwy 28L<sup>6</sup>**  
**ILS or LOC Rwy 28R<sup>3</sup>**  
**RNAV (GPS) Rwy 10L<sup>1</sup>**  
**RNAV (GPS) Rwy 28L<sup>7</sup>**  
**RNAV (GPS) Y Rwy 10R<sup>2</sup>**  
**RNAV (GPS) Z Rwy 28R<sup>4</sup>**  
**RNAV (RNP) Z Rwy 10R<sup>5</sup>**  
<sup>1</sup>Categories A, B, 1200-2, Categories C, D, 1200-3.  
<sup>2</sup>Categories A, B, 1800-2; Categories C, D, 1800-3.  
<sup>3</sup>ILS, Category A, 700-2; Category B, 1000-2; Category C, 1600-3; LOC, Category B, 1000-2; Category C, 1600-3.  
<sup>4</sup>Category B, 1000-2; Category C, 1600-3.  
<sup>5</sup>Categories A, B, C, D, 1100-4.  
<sup>6</sup>ILS, LOC, Categories A, B, 1100-2; Category C, 1600-3.  
<sup>7</sup>Categories A, B, 1100-2; Category C, 1600-3; Category D, 1100-2½.

**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.

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NAME	ALTERNATE MINIMUMS	NAME	ALTERNATE MINIMUMS
<b>SANTA ROSA, CA</b>			
CHARLES M SCHULZ-SONOMA			
COUNTY (STS).....	<b>ILS or LOC/DME Rwy 32<sup>123</sup></b>		
	<b>RNAV (GPS) Rwy 14<sup>24</sup></b>		
	<b>RNAV (GPS) Rwy 2<sup>24</sup></b>		
	<b>RNAV (GPS) Rwy 32<sup>4</sup></b>		
	<b>VOR/DME Rwy 14<sup>24</sup></b>		

- <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.

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

<b>UKIAH, CA</b>			
UKIAH MUNI (UKI) .....	<b>RNAV (GPS)-B<sup>1</sup></b>		
	<b>VOR-A<sup>2</sup></b>		
<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.			

<b>VACAVILLE, CA</b>			
NUT TREE (VCB).....	<b>VOR/DME-A</b>		
NA when local weather not available.			

<b>VISALIA, CA</b>			
VISALIA			
MUNI (VIS) .....	<b>ILS or LOC/DME Rwy 30</b>		
	<b>RNAV (GPS) Rwy 12</b>		
	<b>RNAV (GPS) Rwy 30</b>		
	<b>VOR Rwy 12</b>		
NA when local weather not available.			

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

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