

INSTRUMENT APPROACH PROCEDURE CHARTS

**A IFR ALTERNATE AIRPORT MINIMUMS**

Pilots must review the IFR Alternate Minimums Notes to determine alternate airport suitability.

**A**NA designation on the approach chart means that pilots may not use that approach as an alternate due to unmonitored facility, absence of weather reporting service, or lack of adequate navigation coverage. Approaches with the **A**NA designation are not listed in this section. **A** designation on the approach chart indicates that the approach procedure has non-standard minimums (for aircraft other than helicopters) or restrictions (for all users) for its use as an alternate.

**Alternate Minima (ref: 14 CFR 91.169)**

	Precision Approach	Non-Precision Approach
Standard	<b>600-2</b>	<b>800-2</b>
<b>A</b> Non-Standard or restrictions	As indicated below	As indicated below
Helicopters	For the selected approach: Ceiling: 200' above published ceiling Visibility: the greater of 1 SM visibility or the published visibility	
US Military (USA/USN/USAF)	See Service Regulations	

**Note:** For alternate airport flight planning purposes, precision approach operations include: ILS, PAR, and GLS, and Non-Precision approach operations include: NDB, VOR, LOC, TACAN, LDA, SDF, ASR, RNAV (GPS) and RNAV (RNP).

NAME ALTERNATE MINIMUMS

**ALTURAS, CA**

ALTURAS  
MUNI (AAT).....**RNAV (GPS) Rwy 31**  
Category B, 900-2.

**ARCATA/EUREKA, CA**

CALIFORNIA REDWOOD COAST-HUMBOLDT  
COUNTY (ACV).....**RNAV (GPS) Rwy 1<sup>1</sup>**  
**RNAV (GPS) Rwy 32<sup>2</sup>**

<sup>1</sup>Categories A, B, 900-2; Category C, 900-2½;

Category D, 900-2¾.

<sup>2</sup>Category D, 800-2¼.

**ATWATER, CA**

CASTLE (MER).....**ILS or LOC Rwy 31**  
NA when local weather not available.  
NA when control tower closed.

**AUBURN, CA**

AUBURN MUNI (AUN).....**RNAV (GPS) Rwy 7**  
Category B, 900-2.

**BISHOP, CA**

BISHOP (BIH).....**LDA Rwy 17<sup>1</sup>**  
**RNAV (GPS) Y Rwy 12<sup>2</sup>**  
**RNAV (GPS) Z Rwy 12<sup>3</sup>**

<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.

NAME ALTERNATE MINIMUMS

**BYRON, CA**

BYRON (C83).....**RNAV (GPS) Rwy 30**  
Category D, 800-2½.

**CHICO, CA**

CHICO MUNI (CIC).....**ILS or LOC Rwy 13L**  
**RNAV (GPS) Rwy 13L**  
NA when local weather not available.

**CONCORD, CA**

BUCHANAN  
FLD (CCR).....**LDA Rwy 19R<sup>12</sup>**  
**RNAV (GPS) Rwy 19R<sup>3</sup>**  
**VOR Rwy 19R<sup>3</sup>**

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

<sup>2</sup>Category C, 1000-2¾; Category D, 1300-3.

<sup>3</sup>Categories A, B, 1000-2; Category C, 1000-3;

Category D, 1300-3.

**COLUMBIA, CA**

COLUMBIA (O22).....**RNAV (GPS) Rwy 35**  
NA when local weather not available.  
Categories A, B, 1100-2; Category C, 1100-3.

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**CRESCENT CITY, CA**

JACK MC NAMARA  
FLD (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 CHANDLER  
EXEC (FCH).....RNAV (GPS) Rwy 12  
NA when local weather not available.

FRESNO YOSEMITE

INTL (FAT).....ILS Y or LOC Y Rwy 29R<sup>1</sup>  
LOC Y Rwy 11L<sup>2</sup>  
TACAN Rwy 11L<sup>3</sup>  
TACAN Rwy 29R<sup>2</sup>

<sup>1</sup>LOC, Category E, 900-2¼.

<sup>2</sup>Category E, 900-2¼.

<sup>3</sup>Category E, 900-2.

**GRASS VALLEY, CA**

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

**HAYWARD, CA**

HAYWARD EXEC (HWD).....LOC/DME Rwy 28L  
RNAV (GPS) Rwy 28L

NA when local weather not available.

NA when control tower closed.

Category D, 900-2¼.

**HOLLISTER, CA**

HOLLISTER  
MUNI (CVH).....RNAV (GPS) Rwy 31  
NA when local weather not available.  
Category C, 800-2½.

**LINCOLN, CA**

LINCOLN RGNL/KARL  
HARDER FLD (LHM).....RNAV (GPS) Rwy 15  
RNAV (GPS) Rwy 33

NA when local weather not available.

**LITTLE RIVER, CA**

LITTLE RIVER (LLR).....RNAV (GPS) Rwy 29  
Category D, 900-2¼.

NAME ALTERNATE MINIMUMS

**LIVERMORE, CA**

LIVERMORE MUNI (LVK).....ILS Rwy 25R<sup>12</sup>  
LOC Rwy 25R<sup>34</sup>  
RNAV (GPS) Rwy 25R<sup>5</sup>

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

<sup>2</sup>NA when control tower closed.

<sup>3</sup>NA when tower closed.

<sup>4</sup>Categories A, B, 1600-2; Categories C, D, 1600-3.

<sup>5</sup>Category D, 1400-3.

**MAMMOTH LAKES, CA**

MAMMOTH  
YOSEMITE (MMH).....RNAV (GPS) Rwy 27  
Categories A, B, 1300-2; Category C, 1300-3.

**MADERA, CA**

MADERA MUNI (MAE).....RNAV (GPS) Rwy 12  
RNAV (GPS) Rwy 30

NA when local weather not available.

**MARYSVILLE, CA**

YUBA COUNTY (MYV).....RNAV (GPS) Rwy 14  
RNAV (GPS) Rwy 32

NA when local weather not available.

**MODESTO, CA**

MODESTO CITY-COUNTY-HARRY SHAM  
FLD (MOD).....ILS or LOC Rwy 28R<sup>12</sup>  
RNAV (GPS) Rwy 28R<sup>3</sup>

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

<sup>2</sup>LOC, Category D, 800-2¼.

<sup>3</sup>Category D, 800-2¼.

**MONTEREY, CA**

MONTEREY  
RGNL (MRY).....ILS or LOC Rwy 10R<sup>12</sup>  
LOC Rwy 28L<sup>13</sup>

RNAV (GPS) Rwy 10R<sup>4</sup>

RNAV (GPS) Y Rwy 28L<sup>5</sup>

RNAV (RNP) Z Rwy 28L<sup>6</sup>

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

<sup>2</sup>LOC, Category C, 1100-3; Category D, NA.

<sup>3</sup>Categories A, B, 1700-2, Categories C, D, 1700-3.

<sup>4</sup>Category C, 1100-3; Category D, NA.

<sup>5</sup>Categories A, B, 900-2, Category C, 1100-3.

<sup>6</sup>Categories A, B, C, 1000-3.

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**MOUNTAIN VIEW, CA**

MOFFET FEDERAL AIRFIELD (NUQ).....ILS or LOC Rwy 32R<sup>12</sup>  
LOC Rwy 14L<sup>136</sup>  
RNAV (GPS) Rwy 14L<sup>4</sup>  
RNAV (GPS) Rwy 14R<sup>4</sup>  
RNAV (GPS) Rwy 32L<sup>4</sup>  
RNAV (GPS) Rwy 32R<sup>36</sup>  
TACAN Rwy 32L<sup>15</sup>  
TACAN Rwy 32R<sup>15</sup>

- <sup>1</sup>NA when tower closed.
- <sup>2</sup>LOC, Category D, 800-2½; Category E, 1000-3.
- <sup>3</sup>Category D, 800-2½.
- <sup>4</sup>Category D, 800-2½.
- <sup>5</sup>Category D, 800-2½; Category E, 1000-3.
- <sup>6</sup>NA when local weather not available.

**NAPA, CA**

NAPA COUNTY (APC).....ILS or LOC Z Rwy 1L<sup>12</sup>  
RNAV (GPS) Rwy 6<sup>3</sup>  
RNAV (GPS) Y Rwy 1L<sup>4</sup>  
VOR Rwy 6<sup>5</sup>

- NA when local weather not available.
- <sup>1</sup>NA when control tower closed.
- <sup>2</sup>LOC, Categories C, D, 1300-3.
- <sup>3</sup>Categories A, B, 1400-2; Categories C, D, 1400-3.
- <sup>4</sup>Categories A, B, C, D, 1300-5.
- <sup>5</sup>Categories A, B, 1100-2; Categories C, D, 1300-3.

**NOVATO, CA**

GNOSS FLD (DVO).....RNAV (GPS) Rwy 13  
NA when local weather not available.  
Categories A, B, 1300-2.

**OAKLAND, CA**

METRO 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.

**PALO ALTO, CA**

PALO ALTO (PAO).....RNAV (GPS) Rwy 31  
NA when control tower closed.

**PETALUMA, CA**

PETALUMA MUNI (O69).....RNAV (GPS) Rwy 29  
NA when local weather not available.  
Category B, 900-2.

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**PLACERVILLE, CA**

PLACERVILLE (PVF).....RNAV (GPS) Rwy 5  
NA when local weather not available.  
Category B, 900-2.

**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 Rwy 34<sup>12</sup>  
LOC BC Rwy 16<sup>13</sup>  
RNAV (GPS) Rwy 16<sup>3</sup>  
RNAV (GPS) Rwy 34<sup>3</sup>  
VOR Rwy 34<sup>4</sup>

- NA when local weather not available.
- <sup>1</sup>NA when control tower closed.
- <sup>2</sup>LOC, Category D, 900-2¾; Category E, 900-3.
- <sup>3</sup>Category D, 900-2¾.
- <sup>4</sup>Categories A, B, 1200-2; Categories C, D, 1200-3.

**SACRAMENTO, CA**

SACRAMENTO EXE (SAC).....ILS or LOC Rwy 2<sup>12</sup>  
RNAV (GPS) Rwy 2<sup>3</sup>  
VOR Rwy 2<sup>3</sup>

- NA when local weather not available.
- <sup>1</sup>NA when control tower closed.
- <sup>2</sup>LOC, Category D, 800-2½.
- <sup>3</sup>Category D, 800-2½.

**SACRAMENTO**

INTL (SMF).....ILS or LOC Rwy 17L<sup>1</sup>  
RNAV (GPS) Y Rwy 17L<sup>2</sup>  
RNAV (GPS) Y Rwy 35R<sup>2</sup>

- <sup>1</sup>LOC, Category D, 900-2¾.
- <sup>2</sup>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>34</sup>  
RNAV (GPS) Rwy 22R<sup>34</sup>

- <sup>1</sup>NA when control tower closed.
- <sup>2</sup>LOC, Category E, 800-2½.
- <sup>3</sup>Category D, 800-2½.
- <sup>4</sup>NA when local weather not available.

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**SALINAS, CA**

SALINAS MUNI (SNS).....**ILS Rwy 31<sup>1</sup>**  
**LOC Rwy 31<sup>12</sup>**  
**RNAV (GPS) Rwy 8<sup>3</sup>**  
**RNAV (GPS) Rwy 13<sup>4</sup>**  
**RNAV (GPS) Y Rwy 31<sup>2</sup>**  
**RNAV (GPS) Z Rwy 31**  
**VOR Rwy 13<sup>5</sup>**

NA when local weather not available.

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

<sup>2</sup>Category D, 1600-3.

<sup>3</sup>Category D, 1500-3.

<sup>4</sup>Category D, 1300-3.

<sup>5</sup>Category D, 900-2½.

**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>**  
**ILS or LOC Rwy 28R<sup>7</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, 800-2½;  
LOC, Category A, 900-2; Category B, 1000-2;  
Category C, 1600-3, Category D, 900-2½.

<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.

<sup>7</sup>LOC, Category B, 1000-2; Category C, 1600-3.

**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**  
NA when local weather not available.  
Categories A, B, 1100-2.

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**SANTA ROSA, CA**

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

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

<sup>2</sup>NA when control tower closed.

<sup>3</sup>LOC, Category C, 1000-3; Category D, 1300-3.

<sup>4</sup>Category C, 1000-3; Category D, 1300-3.

**STOCKTON, CA**

STOCKTON  
METRO (SCK).....**ILS or LOC Rwy 29R**  
NA when control tower closed.

**SUSANVILLE, CA**

SUSANVILLE  
MUNI (SVE).....**RNAV (GPS) Rwy 29**  
Categories A, B, 1700-2; Category C, 1700-3;  
Category D, 2000-3.  
NA when local weather not available.

**TRUCKEE, CA**

TRUCKEE-TAHOE  
(TRK).....**RNAV (GPS)-A<sup>1</sup>**  
**RNAV (GPS) Rwy 11<sup>2</sup>**  
**RNAV (GPS) Rwy 20<sup>3</sup>**

NA when local weather not available.

<sup>1</sup>Categories A, B, 1600-2; Category C, 1800-3.

<sup>2</sup>Categories A, B, 1900-2; Category C, 1900-3.

<sup>3</sup>Category A, 1300-2; Category B, 1400-2;  
Category C, 1800-3.

**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>12</sup>**  
**VOR-A<sup>3</sup>**  
<sup>1</sup>NA when local weather not available.  
<sup>2</sup>Category C, 900-2½; Category D, 1400-3.  
<sup>3</sup>Categories A, B, 900-2; Category C, 900-2½;  
Category D, 1300-3.

**VISALIA, CA**

VISALIA  
MUNI (VIS).....**RNAV (GPS) Rwy 12**  
**RNAV (GPS) Rwy 30**  
NA when local weather not available.

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**WATSONVILLE, CA**

WATSONVILLE

MUNI (WVI).....	<b>RNAV (GPS) Rwy 2<sup>1</sup></b>
	<b>VOR-A<sup>23</sup></b>

<sup>1</sup>Category D, 1000-3.

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

<sup>3</sup>Categories A, B, 1200-2; Categories C, D, 1200-3.

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