

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

**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.

**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.

NAME ALTERNATE MINIMUMS

**CONCORD, CA**

BUCHANAN  
FLD (CCR).....**LDA Rwy 19R<sup>12</sup>**  
**RNAV (GPS) Rwy 19R<sup>2</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.

**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, 900-2¾.  
<sup>2</sup>Category E, 900-2¾.  
<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.

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**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, 800-2¼.

**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.

**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.

**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.

NAME ALTERNATE MINIMUMS

**MONTEREY, CA**

MONTEREY  
RGNL (MRV).....**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.

**MOUNTAIN VIEW, CA**

MOUNTAIN FEDERAL  
AIRFIELD (NUQ).....**ILS or LOC Rwy 32R<sup>12</sup>**  
**LOC Rwy 14L<sup>13</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>3</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, 800-2¼; Category E, 1000-3.  
<sup>3</sup>Category D, 800-2¼.  
<sup>4</sup>Category D, 800-2¼.  
<sup>5</sup>Category D, 800-2¼; Category E, 1000-3.

**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, 1100-2;  
Categories C, D, 1200-3.  
<sup>4</sup>Categories A, B, C, D, 1300-5.  
<sup>5</sup>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.

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**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.**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.

NAME ALTERNATE MINIMUMS

**SACRAMENTO, CA (CON'T)**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, 800-2¾.  
<sup>4</sup>NA when local weather not available.

**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, 1600-3.  
<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.

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**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.

Category B, 900-2.

**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; Categories C, D, 1700-3.

**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.

NAME ALTERNATE

**VISALIA, CA**

VISALIA  
 MUNI (VIS).....**ILS or LOC Rwy 30**  
**RNAV (GPS) Rwy 12**  
**RNAV (GPS) Rwy 30**  
**VOR Rwy 12**

NA when local weather not available.

**WATSONVILLE, CA**

WATSONVILLE  
 MUNI (WVVI).....**RNAV (GPS) Rwy 2<sup>1</sup>**  
**VOR-A<sup>23</sup>**

<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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