

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/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 Rwy 17<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.

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

**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).....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  
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 Y or LOC Y Rwy 29R<sup>1</sup>  
LOC Y Rwy 11L<sup>2</sup>  
VOR/DME or TACAN Rwy 11L<sup>2</sup>  
VOR/DME or TACAN Rwy 29R<sup>2</sup>

<sup>1</sup>ILS, LOC, Category E, 900-2¾.  
<sup>2</sup>Category E, 900-2¾.

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

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**HALF MOON BAY, CA**

HALF MOON BAY (HAF).....RNAV (GPS) Y Rwy 12  
RNAV (GPS) Y Rwy 30  
NA when local weather not available.

**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.

NAME ALTERNATE MINIMUMS

**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.

**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  
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.

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**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.

**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, 800-2¼; Category D, 800-2½.

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**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/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, 800-2¼.

<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.

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**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>3</sup>**  
**RNAV (GPS) Rwy 10L<sup>4</sup>**  
**RNAV (GPS) Rwy 28L<sup>5</sup>**  
**RNAV (GPS) Y Rwy 10R<sup>2</sup>**  
**RNAV (GPS) Z Rwy 28R<sup>6</sup>**  
**RNAV (RNP) Z Rwy 10R<sup>7</sup>**

- <sup>1</sup>Categories A, B, 1800-2; Categories C, D, 1800-3.
- <sup>2</sup>ILS, Categories A, B, C, D, 800-2; LOC, Category B, 1000-2; Category C, 1600-3.
- <sup>3</sup>LOC, Category B, 1000-2; Category C, 1600-3.
- <sup>4</sup>Categories A, B, 1200-2, Categories C, D, 1200-3.
- <sup>5</sup>Categories A, B, 1100-2; Category C, 1600-3; Category D, 1100-2½.
- <sup>6</sup>Category B, 1000-2; Category C, 1600-3.
- <sup>7</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.

**SANTA ROSA, CA**

CHARLES M SCHULZ-SONOMA  
COUNTY (STS).....**ILS or LOC/DME 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.

NAME ALTERNATE MINIMUMS

**SUSANVILLE, CA**

SUSAVILLE  
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.

**VISALIA, CA**

VISALIA  
MUNI (VIS).....**ILS or LOC/DME Rwy 30**  
**RNAV (GPS) Rwy 12**  
**RNAV (GPS) Rwy 30**  
**VOR Rwy 12**  
NA when local weather not available.

**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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