

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

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

ANA 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	600-2	800-2
A 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 1¹
RNAV (GPS) Rwy 32²

¹Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2¾.
²Category 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 17¹
RNAV (GPS) Y Rwy 12²
RNAV (GPS) Z Rwy 12³

¹Categories A, B, 2300-2; Categories C, D, 2300-3.
²Categories A, B 2500-2; Category C, 2500-3.
³Categories A, B, 2300-2; Category C, 2300-3.

NAME ALTERNATE MINIMUMS

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

CHESTER, CA
ROGERS FLD (O05).....RNAV (GPS) Rwy 34
Category A, 1000-2; Category B, 1200-2; Category
C, 1200-3.

CHICO, CA
CHICO RGNL (CIC).....ILS or LOC Rwy 13L
RNAV (GPS) Rwy 13L
NA when local weather not available.

COALINGA, CA
NEW COALINGA MUNI
MUNI (C80).....RNAV (GPS) Rwy 30
NA when local weather not available.
Category C, 800-2¼; Category D, 1100-3.

CONCORD, CA
BUCHANAN
FLD (CCR).....LDA Rwy 19R¹²
RNAV (GPS) Rwy 19R³
VOR Rwy 19R³

¹NA when control tower closed.
²Category C, 1000-2¾; Category D, 1300-3.
³Categories A, B, 1000-2; Category C, 1000-3;
Category D, 1300-3.

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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.

DAVIS, CA

UNIVERSITY (EDU).....RNAV (GPS) Rwy 17
 RNAV (GPS) Rwy 35
 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 29R¹
 LOC Y Rwy 11L²
 TACAN Rwy 11L³
 TACAN Rwy 29R²

¹LOC, Category E, 900-2½.

²Category E, 900-2½.

³Category E, 900-2.

GRASS VALLEY, CA

NEVADA
 COUNTY (GOO).....RNAV (GPS) Rwy 7
 NA when local weather not available.
 Category D, 800-2½.

HAYWARD, CA

HAYWARD EXEC (HWD).....LOC Rwy 28L¹
 RNAV (GPS) Rwy 28L
 NA when local weather not available.
 Category D, 900-2½.
¹NA when control tower closed.

HOLLISTER, CA

HOLLISTER MUNI (CVH)....RNAV (GPS) Rwy 13¹
 RNAV (GPS) Rwy 31²
 NA when local weather not available.
¹Categories A, B, C, 900-2½.
²Category 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.

NAME ALTERNATE MINIMUMS

LITTLE RIVER, CA

LITTLE RIVER (LLR).....RNAV (GPS) Rwy 29
 Category D, 900-2½.

LIVERMORE, CA

LIVERMORE MUNI (LVK).....ILS Rwy 25R¹²
 LOC Rwy 25R³⁴
 RNAV (GPS) Rwy 25R⁵

¹NA when local weather not available.

²NA when control tower closed.

³NA when tower closed.

⁴Categories A, B, 1600-2; Categories C, D, 1600-3.

⁵Category 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.

MARIPOSA, CA

MARIPOSA-
 YOSEMITE (MPI).....RNAV (GPS)-A
 NA when local weather not available.
 Category A, 1900-2; Category B, 2000-2.

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 28R¹²
 RNAV (GPS) Rwy 28R³

¹NA when control tower closed.

²LOC, Category D, 800-2½.

³Category D, 800-2½.

MONTEREY, CA

MONTEREY
 RGNL (MRY).....ILS or LOC Rwy 10R¹²
 LOC Rwy 28L¹³
 RNAV (GPS) Rwy 10R⁴
 RNAV (GPS) Y Rwy 28L⁵
 RNAV (RNP) Z Rwy 28L⁶

¹NA when control tower closed.

²LOC, Category C, 1100-3; Category D, NA.

³Categories A, B, 1700-2, Categories C, D, 1700-3.

⁴Category C, 1100-3; Category D, 800-2½.

⁵Categories A, B, 900-2, Category C, 1100-3.

⁶Categories A, B, C, 1000-3.

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NAME ALTERNATE MINIMUMS

MOUNTAIN VIEW, CA

MOFFET FEDERAL
AIRFIELD (NUQ).....**ILS or LOC Rwy 32R**¹²
LOC Rwy 14L¹³⁶
RNAV (GPS) Rwy 14L⁴
RNAV (GPS) Rwy 14R⁴
RNAV (GPS) Rwy 32L⁴
RNAV (GPS) Rwy 32R³⁶
TACAN Rwy 32L¹⁵
TACAN Rwy 32R¹⁵

¹NA when tower closed.²LOC, Category D, 800-2½; Category E, 1000-3.³Category D, 800-2½.⁴Category D, 800-2½.⁵Category D, 800-2½; Category E, 1000-3.⁶NA when local weather not available.**NAPA, CA**

NAPA
COUNTY (APC).....**ILS or LOC Z Rwy 1L**¹²
RNAV (GPS) Rwy 6³
RNAV (GPS) Rwy 19R⁴
RNAV (GPS) Y Rwy 1L⁵
VOR Rwy 6⁵

NA when local weather not available.

¹NA when control tower closed.²LOC, Categories C, D, 1300-3.³Categories A, B, 1400-2;

Categories C, D, 1400-3.

⁴Categories C, D, 1300-3.⁵Categories A, B, C, D, 1300-5.⁶Categories 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, 1100-2.

OAKLAND, CA

SAN FRANCISCO BAY
OAKLAND INTL (OAK).....**ILS or LOC Rwy 12**¹
ILS or LOC Rwy 30¹
ILS or LOC/DME Rwy 28R¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 10R²
RNAV (GPS) Y Rwy 12²
RNAV (GPS) Y Rwy 28L²
RNAV (GPS) Y Rwy 28R²
RNAV (GPS) Y Rwy 30²
VOR Rwy 10R²

¹ILS, Category C, 700-2; Category D, 1400-3;

LOC, Category D, 1400-3.

²Category D, 1400-3.**PALO ALTO, CA**

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

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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.

PORTERVILLE, CA

PORTERVILLE MUNI (PTV).....**VOR-A**
 NA when local weather not available.

RED BLUFF, CA

RED BLUFF
MUNI (RBL).....**RNAV (GPS) Rwy 15**¹
RNAV (GPS) Rwy 33
VOR Rwy 33
VOR/DME Rwy 15¹

NA when local weather not available.

¹Category D, 800-2½.**REDDING, CA**

REDDING
RGNL (RDD).....**ILS or LOC Rwy 34**¹²
LOC BC Rwy 16¹³
RNAV (GPS) Rwy 16³
RNAV (GPS) Rwy 34³
VOR Rwy 34⁴

NA when local weather not available.

¹NA when control tower closed.²LOC, Category D, 900-2¾; Category E, 900-3.³Category D, 900-2¾.⁴Categories A, B, 1200-2; Categories C, D, 1200-3.**SACRAMENTO, CA**

SACRAMENTO EXE (SAC).....**ILS or LOC Rwy 2**¹²
RNAV (GPS) Rwy 2³
VOR Rwy 2³

NA when local weather not available.

¹NA when control tower closed.²LOC, Category D, 800-2½.³Category D, 800-2½.**SACRAMENTO**

INTL (SMF).....**ILS or LOC Rwy 17L**¹
RNAV (GPS) Y Rwy 17L²
RNAV (GPS) Y Rwy 35R²

¹LOC, Category D, 900-2¾.²Category D, 900-2¾.

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SACRAMENTO, CA (CON'T)

SACRAMENTO
 MATHER (MHR).....**ILS Y** or **Y LOC Rwy 22L**^{1,2}
 ILS Z or **Z LOC Rwy 22L**^{1,2}
 RNAV (GPS) Rwy 4R
 RNAV (GPS) Rwy 22L³
 RNAV (GPS) Rwy 22R³

NA when local weather not available.

¹NA when control tower closed.

²LOC, Category D, 800-2¼; Category E, 800-2½.

³Category D, 800-2¼.

SALINAS, CA

SALINAS MUNI (SNS).....**ILS Rwy 31**¹
 LOC Rwy 31^{1,2}
 RNAV (GPS) Rwy 8³
 RNAV (GPS) Rwy 13²
 RNAV (GPS) Y Rwy 31²
 RNAV (GPS) Z Rwy 31
 VOR Rwy 13⁴

NA when local weather not available.

¹NA when control tower closed.

²Category D, 1600-3.

³Category D, 1500-3.

⁴Category D, 900-2¼.

SAN ANDREAS, CA

CALAVERAS COUNTY/MAURY
 RASMUSSEN FLD (CPU).....**RNAV (GPS) Rwy 31**
 Category C, 1100-3.

SAN CARLOS, CA

SAN CARLOS (SQL).....**RNAV (GPS) Y Rwy 30**¹
 RNAV (GPS) Z Rwy 30²

NA when local weather not available.

¹Categories A, B, 1300-2.

²Categories A, B, 900-2.

NAME ALTERNATE

SAN FRANCISCO, CA

SAN FRANCISCO
 INTL (SFO).....**ILS** or **LOC Rwy 19L**¹
 ILS or **LOC Rwy 28L**²
 ILS or **LOC Rwy 28R**³
 RNAV (GPS) Rwy 10L⁴
 RNAV (GPS) Rwy 19L⁵
 RNAV (GPS) Rwy 28L⁶
 RNAV (GPS) Y Rwy 10R⁷
 RNAV (GPS) Y Rwy 19R⁸
 RNAV (GPS) Z Rwy 28R⁹
 RNAV (RNP) Z Rwy 10R^a

¹ILS, Categories A, B, C, D, 800-2;

LOC, Categories A, B, 1800-2;
 Categories C, D, 1800-3.

²ILS, Categories A, B, C, D, 800-2¼;
 LOC, Category A, 900-2; Category B, 1000-2;
 Category C, 1600-3; Category D, 900-2½.

³LOC, Category B, 1000-2; Category C, 1600-3.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

⁵Categories A, B, 1100-2; Categories C, D, 1100-2½.

⁶Categories A, B, 1100-2; Category C, 1600-3;
 Category D, 1100-2½.

⁷Categories A, B, 1200-2; Category C, D, 1200-3.

⁸Categories A, B, C, D, 1400-4.

⁹Category B, 1100-2; Category C, 1700-3.

^aCategories 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**

NA when local weather not available.

Categories A, B, 1100-2.

SANTA ROSA, CA

CHARLES M SCHULZ/SONOMA
 COUNTY (STS).....**ILS** or **LOC Rwy 32**^{1,2,3}
 RNAV (GPS) Rwy 2⁴
 RNAV (GPS) Rwy 14⁴
 RNAV (GPS) Rwy 32^{1,4}

¹NA when local weather not available.

²NA when control tower closed.

³LOC, Category C, 1000-3; Category D, 1300-3.

⁴Category C, 1000-3; Category D, 1300-3.

STOCKTON, CA

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

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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)-A¹
RNAV (GPS) Rwy 11²
RNAV (GPS) Rwy 20³
NA when local weather not available.
¹Categories A, B, 1600-2; Category C, 1800-3.
²Categories A, B, 1900-2; Category C, 1900-3.
³Category A, 1300-2; Category B, 1400-2;
Category C, 1800-3.

UKIAH, CA

UKIAH MUNI (UKI).....LOC Rwy 15¹
RNAV (GPS)-B²
RNAV (GPS) RWY 15¹
VOR-A³
¹Categories A, B, 1700-2; Category C, 1700-3;
Category D, 2200-3.
²Categories A, B, 1500-2; Category C, 1600-3;
Category D, 2200-3.
³Categories A, B, 2800-2; Categories C, D, 2800-3.

VACAVILLE, CA

NUT TREE (VCB).....RNAV (GPS) Rwy 20¹²
VOR-A³
¹NA when local weather not available.
²Category C, 900-2½; Category D, 1400-3.
³Categories 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.

WATSONVILLE, CA

WATSONVILLE
MUNI (WVI).....RNAV (GPS) Rwy 2¹
VOR-A²
NA when local weather not available.
¹Category D, 1000-3.
²Categories A, B, 1200-2; Categories C, D, 1200-3.

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