

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. A procedure is not authorized for alternate flight planning purposes when local weather is not available.

MILITARY USERS NOTE: For IFR alternate airport and minima planning, refer to appropriate service directives.

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	

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).

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ALTURAS, CA

ALTURAS MUNI (AAT).....RNAV (GPS) Rwy 31
Cat B 900-2.

CHESTER, CA

ROGERS FLD (O05).....RNAV (GPS) Rwy 34
Cat A 1000-2, Cat B 1200-2, Cat C 1200-3.

ARCATA/EUREKA, CA

CALIFORNIA REDWOOD COAST-HUMBOLDT COUNTY (ACV).....RNAV (GPS) Rwy 1¹
RNAV (GPS) Rwy 32²

¹Cat A, B 900-2, Cat C 900-2½, Cat D 900-2¾.
²Cat D 800-2¾.

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.
Cat C 800-2¼, Cat D 1100-3.

ATWATER, CA

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

CONCORD, CA

BUCHANAN FLD (CCR).....LDA Rwy 19R¹²
RNAV (GPS) Rwy 19R³
VOR Rwy 19R²

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

AUBURN, CA

AUBURN MUNI (AUN).....RNAV (GPS) Rwy 7
NA when local weather not available.
Cat B 900-2.

BISHOP, CA

BISHOP (BIH).....LDA Rwy 17¹
RNAV (GPS) Y Rwy 12²
RNAV (GPS) Z Rwy 12³

¹Cat A, B 2300-2, Cat C, D 2300-3.
²Cat A, B 2500-2, Cat C 2500-3.
³Cat A, B 2300-2, Cat C 2300-3.

COLUMBIA, CA

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

BYRON, CA

BYRON (C83).....RNAV (GPS) Rwy 30
Cat D 800-2½.

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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.

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 Cat E 900-2¼.

²Cat E 900-2¼.

³Cat E 900-2.

GRASS VALLEY, CA

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

HAYWARD, CA

HAYWARD EXEC (HWD).....LOC Rwy 28L¹
RNAV (GPS) Rwy 28L

NA when local weather not available.

Cat D 900-2¼.

¹NA when control tower closed.

HOLLISTER, CA

HOLLISTER MUNI (CVH).....RNAV (GPS) Rwy 13¹
RNAV (GPS) Rwy 31²

NA when local weather not available.

¹Cat A, B, C 900-2½.

²Cat 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
Cat D 900-2¼.

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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.

⁴Cat A, B 1600-2, Cat C, D 1600-3.

⁵Cat D 1400-3.

MAMMOTH LAKES, CA

MAMMOTH
YOSEMITE (MMH).....RNAV (GPS) Rwy 27
Cat A, B 1200-4, Cat C 1500-5.

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.
Cat A 1900-2, Cat 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

NA when local weather not available.

¹NA when control tower closed.

²LOC Cat D 800-2¼.

³Cat 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

¹NA when control tower closed.

²LOC Cat C 1100-3, Cat D NA.

³Cat A, B 1700-2, Cat C, D 1700-3.

⁴Cat C 1100-3, Cat D 800-2½.

⁵Cat A, B 900-2, Cat C 1100-3.

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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 Cat D 800-2½, Cat E 1000-3.
- ³Cat D 800-2½.
- ⁴Cat D 800-2½.
- ⁵Cat D 800-2½, Cat E 1000-3.
- ⁶NA when local weather not available.

NAPA, CA

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

- NA when local weather not available.
- ¹NA when control tower closed.
- ²LOC Cat C, D 1300-3.
- ³Cat A, B 1400-2, Cat C, D 1400-3.
- ⁴Cat C, D 1300-3.
- ⁵Cat A, B, C, D 1400-5.
- ⁶Cat A, B 1100-2, Cat C, D 1300-3.

NOVATO, CA

GNOSS FLD (DVO).....**RNAV (GPS) Rwy 13**
NA when local weather not available.
Cat A, B 1100-2.

OAKLAND, CA

OAKLAND SAN FRANCISCO BAY (OAK).....**ILS or LOC Rwy 12**¹
ILS or LOC Rwy 28R²
ILS or LOC Rwy 30²
RNAV (GPS) Rwy 10L³
RNAV (GPS) Rwy 10R³
RNAV (GPS) Y Rwy 12³
RNAV (GPS) Y Rwy 28L³
RNAV (GPS) Y Rwy 28R³
RNAV (GPS) Y Rwy 30³
VOR Rwy 10R³

- ¹ILS Cat C 700-2, Cat D 1400-3; LOC Cat D 1400-3.
- ²LOC Cat D 1400-3.
- ³Cat 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.
Cat B 900-2.

PLACERVILLE, CA

PLACERVILLE (PVF).....**RNAV (GPS) Rwy 5**
NA when local weather not available.
Cat 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.
- ¹Cat D 800-2½.

REDDING, CA

REDDING RGNL (RDD).....**ILS or LOC Rwy 35**¹²
LOC BC Rwy 17¹³
RNAV (GPS) Rwy 17³
RNAV (GPS) Rwy 35³
VOR Rwy 35⁴

- NA when local weather not available.
- ¹NA when control tower closed.
- ²LOC Cat D 900-2¾, Cat E 900-3.
- ³Cat D 900-2¾.
- ⁴Cat A, B 1200-2, Cat 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 Cat D 800-2½.
- ³Cat D 800-2½.

SACRAMENTO

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

- ¹LOC Cat D 900-2¾.
- ²Cat D 900-2¾.

SACRAMENTO

MATHER (MHR).....**ILS Y or Y LOC Rwy 22L**¹²
ILS Z or Z LOC Rwy 22L¹²
RNAV (GPS) Rwy 4R
RNAV (GPS) Rwy 22L³
RNAV (GPS) Rwy 22R³

- NA when local weather not available.
- ¹NA when control tower closed.
- ²LOC Cat D 800-2¼, Cat E 800-2½.
- ³Cat D 800-2¼.

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SALINAS, CA

SALINAS MUNI (SNS).....ILS Rwy 31¹
LOC Rwy 31¹²
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.

²Cat D 1600-3.

³Cat D 1500-3.

⁴Cat D 900-2¾.

SAN ANDREAS, CA

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

SAN CARLOS, CA

SAN CARLOS (SQL).....RNAV (GPS) Y Rwy 30¹
RNAV (GPS) Z Rwy 30²

NA when local weather not available.

¹Cat A, B 1300-2.

²Cat A, B 900-2.

SAN FRANCISCO, CA

SAN FRANCISCO
INTL (SFO).....ILS or LOC Rwy 19L¹
ILS or LOC Rwy 28L²
ILS or LOC Rwy 28R³
RNAV (GPS) Rwy 10L⁴
RNAV (GPS) Rwy 19L⁵
RNAV (GPS) Rwy 28L⁶
RNAV (GPS) U Rwy 28R⁷
RNAV (GPS) Y Rwy 10R⁸
RNAV (GPS) Y Rwy 19R⁹
RNAV (GPS) Z Rwy 28R^a
RNAV (RNP) Z Rwy 10R^b

¹ILS Cat A, B, C, D 800-2; LOC Cat A, B 1800-2,
Cat C, D 1800-3.

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

³LOC Cat B 1000-2, Cat C 1600-3.

⁴Cat A, B 1100-2, Cat C, D 1100-3.

⁵Cat A, B 1100-2, Cat C, D 1100-2½.

⁶Cat A, B 1100-2, Cat C 1600-3, Cat D 1100-2½.

⁷Cat A, B, C, D 1000-3.

⁸Cat A, B 1200-2, Cat C, D 1200-3.

⁹Cat A, B, C, D 1400-4.

^aCat B 1100-2, Cat C 1700-3.

^bCat A, B, C, D 1100-4.

SAN JOSE, CA

NORMAN Y MINETA SAN JOSE
INTL (SJC).....ILS or LOC Rwy 30L
NA when control tower closed.

NAME ALTERNATE

SAN MARTIN, CA

SAN MARTIN (E16).....RNAV (GPS) Rwy 32
NA when local weather not available.
Cat A, B 1100-2.

SANTA ROSA, CA

CHARLES M SCHULZ/SONOMA
COUNTY (STS).....ILS or LOC Rwy 32¹²³
RNAV (GPS) Rwy 2⁴
RNAV (GPS) Rwy 14⁴
RNAV (GPS) Rwy 32¹⁴

¹NA when local weather not available.

²NA when control tower closed.

³LOC Cat C 1000-3, Cat D 1300-3.

⁴Cat C 1000-3, Cat 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
Cat A, B 1700-2, Cat C 1700-3, Cat D 2000-3.
NA when local weather not available.

TRACY, CA

TRACY MUNI (TCY).....RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 26
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.

¹Cat A, B 1600-2, Cat C 1800-3.

²Cat A, B 1900-2, Cat C 1900-3.

³Cat A 1300-2, Cat B 1400-2, Cat C 1800-3.

UKIAH, CA

UKIAH MUNI (UKI).....LOC Rwy 15¹
RNAV (GPS)-B²
RNAV (GPS) RWY 15¹
VOR-A³

¹Cat A, B 1700-2, Cat C 1700-3, Cat D 2200-3.

²Cat A, B 1500-2, Cat C 1600-3, Cat D 2200-3.

³Cat A, B 2800-2, Cat C, D 2800-3.

VACAVILLE, CA

NUT TREE (VCB).....RNAV (GPS) Rwy 20¹²
VOR-A³

¹NA when local weather not available.

²Cat C 900-2½, Cat D 1400-3.

³Cat A, B 900-2, Cat C 900-2½, Cat D 1300-3.

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VISALIA, CA

VISALIA MUNI (VIS).....**ILS or LOC Rwy 30**
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.

¹Cat D 1100-3.

²Cat A, B 1200-2, Cat C, D 1200-3.

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