

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).

NAME ALTERNATE MINIMUMS

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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.

ATWATER, CA

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

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.

AUBURN, CA

AUBURN MUNI (AUN).....RNAV (GPS) Rwy 7
Cat B 900-2.

CONCORD, CA

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

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.

NAME ALTERNATE MINIMUMS

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 800-2¼.

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**
Cat D 900-2¼.

NAME ALTERNATE MINIMUMS

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 1300-2, Cat 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.
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

¹NA when control tower closed.

²LOC Cat D 800-2¼.

³Cat D 800-2¼.

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.

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 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 or LOC Z Rwy 1L**¹²
RNAV (GPS) Rwy 6³
RNAV (GPS) Rwy 19R⁴
RNAV (GPS) Y Rwy 1L⁵
VOR Rwy 6⁶

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 1300-5.

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.

PETALUMA, CA

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

NAME ALTERNATE MINIMUMS

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 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 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 800-2¾, Cat E 800-2½.

³Cat D 800-2¾.

NAME	ALTERNATE MINIMUMS
SALINAS, CA	
SALINAS MUNI (SNS).....	ILS Rwy 31 ¹ LOC Rwy 31 ¹² RNAV (GPS) Rwy 8 ³ RNAV (GPS) Rwy 13 ² RNAV (GPS) Y Rwy 31 ² RNAV (GPS) Z Rwy 31 VOR Rwy 13 ⁴
NA when local weather not available.	
¹ NA when control tower closed.	
² Cat D 1600-3.	
³ Cat D 1500-3.	
⁴ Cat 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 30 ¹ RNAV (GPS) Z Rwy 30 ²
NA when local weather not available.	
¹ Cat A, B 1300-2.	
² Cat A, B 900-2.	

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 10L ⁴ RNAV (GPS) Rwy 19L ⁵ RNAV (GPS) Rwy 28L ⁶ RNAV (GPS) Y Rwy 10R ⁷ RNAV (GPS) Y Rwy 19R ⁸ RNAV (GPS) Z Rwy 28R ⁹ RNAV (RNP) Z Rwy 10R ^a
¹ ILS Cat A, B, C, D 800-2; LOC Cat A, B 1800-2, Cat C, D 1800-3.	
² ILS Cat A, B, C, D 800-2½; LOC Cat A 900-2, Cat B 1000-2; Cat C 1600-3, Cat D 900-2½.	
³ LOC Cat B 1000-2, Cat C 1600-3.	
⁴ Cat A, B 1100-2, Cat C, D 1100-3.	
⁵ Cat A, B 1100-2, Cat C, D 1100-2½.	
⁶ Cat A, B 1100-2, Cat C 1600-3, Cat D 1100-2½.	
⁷ Cat A, B 1200-2, Cat C, D 1200-3.	
⁸ Cat A, B, C, D 1400-4.	
⁹ Cat B 1100-2, Cat C 1700-3.	
^a Cat 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.	
Cat A, B 1100-2.	

NAME	ALTERNATE
SANTA ROSA, CA	
CHARLES M SCHULZ/SONOMA COUNTY (STS).....	ILS or LOC Rwy 32 ¹²³ RNAV (GPS) Rwy 2 ⁴ RNAV (GPS) Rwy 14 ⁴ RNAV (GPS) Rwy 32 ¹⁴
¹ NA when local weather not available.	
² NA when control tower closed.	
³ LOC Cat C 1000-3, Cat D 1300-3.	
⁴ Cat 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.	

TRUCKEE, CA	
TRUCKEE-TAHOE (TRK).....	RNAV (GPS)-A ¹ RNAV (GPS) Rwy 11 ² RNAV (GPS) Rwy 20 ³
NA when local weather not available.	
¹ Cat A, B 1600-2, Cat C 1800-3.	
² Cat A, B 1900-2, Cat C 1900-3.	
³ Cat A 1300-2, Cat B 1400-2, Cat C 1800-3.	

UKIAH, CA	
UKIAH MUNI (UKI).....	LOC Rwy 15 ¹ RNAV (GPS)-B ² RNAV (GPS) RWY 15 ¹ VOR-A ³
¹ Cat A, B 1700-2, Cat C 1700-3, Cat D 2200-3.	
² Cat A, B 1500-2, Cat C 1600-3, Cat D 2200-3.	
³ Cat A, B 2800-2, Cat C, D 2800-3.	

VACAVILLE, CA	
NUT TREE (VCB).....	RNAV (GPS) Rwy 20 ¹² VOR-A ³
¹ NA when local weather not available.	
² Cat C 900-2½, Cat D 1400-3.	
³ Cat A, B 900-2, Cat C 900-2½, Cat 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 2 ¹ VOR-A ²
NA when local weather not available.	
¹ Cat D 1100-3.	
² Cat A, B 1200-2, Cat C, D 1200-3.	