

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	NAME	ALTERNATE MINIMUMS
<b>ALTURAS, CA</b>		<b>CONCORD, CA</b>	
ALTURAS		BUCHANAN	
MUNI (AAT).....	<b>RNAV (GPS) Rwy 31</b>	FIELD (CCR).....	<b>LDA Rwy 19R<sup>12</sup></b>
Category B, 900-2.			<b>RNAV (GPS) Rwy 19R<sup>2</sup></b>
			<b>VOR Rwy 19R<sup>3</sup></b>
<b>ARCATA/EUREKA, CA</b>			<sup>1</sup> NA when control tower closed.
CALIFORNIA REDWOOD COAST-HUMBOLDT			<sup>2</sup> Category C, 1000-2½; Category D, 1300-3.
COUNTY (ACV).....	<b>RNAV (GPS) Rwy 1<sup>1</sup></b>		<sup>3</sup> Categories A, B, 1000-2; Category C, 1000-3;
	<b>RNAV (GPS) Rwy 32<sup>2</sup></b>		Category D, 1300-3.
		<b>COLUMBIA, CA</b>	
<sup>1</sup> Categories A, B, 900-2; Category C, 900-2½;		COLUMBIA (O22).....	<b>RNAV (GPS) Rwy 35</b>
Category D, 900-2¾.			NA when local weather not available.
<sup>2</sup> Category D, 800-2¼.			Categories A, B, 1100-2; Category C, 1100-3.
<b>ATWATER, CA</b>		<b>CRESCENT CITY, CA</b>	
CASTLE (MER).....	<b>ILS or LOC Rwy 31</b>	JACK MC NAMARA	
NA when local weather not available.		FIELD (CEC).....	<b>RNAV (GPS) Rwy 12</b>
NA when control tower closed.			<b>RNAV (GPS) Rwy 36</b>
			<b>VOR Rwy 12</b>
<b>AUBURN, CA</b>			<b>VOR/DME Rwy 12</b>
AUBURN MUNI (AUN).....	<b>RNAV (GPS) Rwy 7</b>		<b>VOR/DME Rwy 36</b>
Category B, 900-2.			NA when local weather not available.
<b>BISHOP, CA</b>		<b>FRESNO, CA</b>	
BISHOP (BIH).....	<b>LDA Rwy 17<sup>1</sup></b>	FRESNO CHANDLER	
	<b>RNAV (GPS) Y Rwy 12<sup>2</sup></b>	EXECUTIVE (FCH).....	<b>RNAV (GPS) Rwy 12</b>
	<b>RNAV (GPS) Z Rwy 12<sup>3</sup></b>		NA when local weather not available.
<sup>1</sup> Categories A, B, 2300-2; Categories C, D, 2300-3.		FRESNO YOSEMITE	
<sup>2</sup> Categories A, B 2500-2; Category C, 2500-3.		INTL (FAT).....	<b>ILS Y or LOC Y Rwy 29R<sup>1</sup></b>
<sup>3</sup> Categories A, B, 2300-2; Category C, 2300-3.			<b>LOC Y Rwy 11L<sup>2</sup></b>
<b>BYRON, CA</b>			<b>TACAN Rwy 11L<sup>3</sup></b>
BYRON (C83).....	<b>RNAV (GPS) Rwy 30</b>		<b>TACAN Rwy 29R<sup>2</sup></b>
Category D, 800-2½.			
<b>CHICO, CA</b>		<sup>1</sup> LOC, Category E, 900-2¾.	
CHICO MUNI (CIC).....	<b>ILS or LOC Rwy 13L</b>	<sup>2</sup> Category E, 900-2¾.	
	<b>RNAV (GPS) Rwy 13L</b>	<sup>3</sup> Category E, 900-2.	
NA when local weather not available.		<b>GRASS VALLEY, CA</b>	
		NEVADA	
		COUNTY (GOO).....	<b>RNAV (GPS) Rwy 7</b>
			Category D, 800-2¼.

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**HAYWARD, CA**

HAYWARD  
EXECUTIVE (HWD).....**LOC/DME Rwy 28L<sup>1</sup>**  
**RNAV (GPS) Rwy 28L**

NA when local weather not available.  
<sup>1</sup>NA when control tower closed.

**LINCOLN, CA**

LINCOLN RGNL/KARL  
HARDER FIELD (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  
FIELD (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.

**MONTEREY, CA**

MONTEREY  
RGNL (MRY).....**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.

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**MOUNTAIN VIEW, CA**

MOFFET FEDERAL  
AFLD (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, 800-2½; Category E, 1000-3.  
<sup>3</sup>Category D, 800-2½.  
<sup>4</sup>Category D, 800-2¼.  
<sup>5</sup>Category D, 800-2½; 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, 1000-1¼;  
Categories C, D, 1300-3.  
<sup>4</sup>Categories A, B, C, D, 1300-5.  
<sup>5</sup>Categories C, D, 1300-3.

**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).....**RNAV (GPS) 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.

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**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, 800-2¼.

**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  
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 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>

<sup>1</sup>NA when control tower closed.

<sup>2</sup>LOC, Category E, 800-2½.

<sup>3</sup>Category D, 800-2¼.

<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, 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.

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**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.

**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/DME Rwy 32<sup>12</sup>  
RNAV (GPS) Rwy 2<sup>3</sup>  
RNAV (GPS) Rwy 14<sup>3</sup>  
RNAV (GPS) Rwy 32<sup>3</sup>

<sup>1</sup>NA when control tower closed.

<sup>2</sup>ILS, LOC, Category C, 1000-3; Category D, 1300-3.

<sup>3</sup>Category C, 1000-3; Category D, 1300-3.

**STOCKTON, CA**

STOCKTON METROPOLITAN  
(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.

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**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>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 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<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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