

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

ALGONA, IA

ALGONA MUNI (AXA).....RNAV (GPS) Rwy 12
VOR/DME-A

NA when local weather not available.

AMES, IA

AMES MUNI (AMW).....ILS or LOC Rwy 1²³
RNAV (GPS) Rwy 19¹

¹NA when local weather not available.

²NA when control tower closed.

³LOC, Category D, 1100-3.

ANKENY, IA

ANKENY RGNL (IKV).....RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 22
RNAV (GPS) Rwy 36

Category D, 900-2¾.

ATLANTIC, IA

ATLANTIC MUNI (AIO).....RNAV (GPS) Rwy 2
RNAV (GPS) Rwy 20

NA when local weather not available.

Category C, 800-2¼.

AUDUBON, IA

AUDUBON COUNTY (ADU).....RNAV (GPS) Rwy 32

NA when local weather not available.

NAME ALTERNATE MINIMUMS

BOONE, IA

BOONE MUNI (BNW).....RNAV (GPS) Rwy 15
RNAV (GPS) Rwy 33

NA when local weather not available.

BRANSON, MO

BRANSON (BBG).....RNAV (GPS) Rwy 14¹
RNAV (GPS) Rwy 32²

NA when local weather not available.

¹Category C, 800-2¾; Category D, 800-2½.

²Category C, 1000-2¾; Category D, 1000-3.

BURLINGTON, IA

SOUTHEAST IOWA
RGNL (BRL).....RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 30
RNAV (GPS) Rwy 36
VOR Rwy 12
VOR Rwy 30

NA when local weather not available.

CAMDENTON, MO

CAMDENTON MEML-LAKE
RGNL (OZS).....RNAV (GPS) Rwy 15
RNAV (GPS) Rwy 33

NA when local weather not available.

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NAME ALTERNATE MINIMUMS

DECORAH, IA

DECORAH MUNI (DEH).....RNAV (GPS) Rwy 11
RNAV (GPS) Rwy 29

NA when local weather not available.

DENISON, IA

DENISON MUNI (DNS).....RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 30

NA when local weather not available.
Category C, 900-2½.

DES MOINES, IA

DES MOINES
INTL (DSM).....ILS or LOC Rwy 5¹
ILS or LOC Rwy 13¹
ILS or LOC Rwy 31²
RNAV (GPS) Rwy 5¹
RNAV (GPS) Rwy 13¹
RNAV (GPS) Rwy 23¹
RNAV (GPS) Rwy 31¹
VOR Rwy 23³

¹Category D, 900-2½.
²LOC, Category D, 900-2½; Category E, 900-2¾.
³Category C, 800-2½; Category D, 900-2½.

DUBUQUE, IA

DUBUQUE
RGNL (DBQ).....ILS or LOC Rwy 36¹²
LOC Rwy 31¹³
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 18³
RNAV (GPS) Rwy 31
RNAV (GPS) Rwy 36
VOR Rwy 13³
VOR Rwy 31⁴
VOR Rwy 36³

NA when local weather not available.
¹NA when control tower closed.
²LOC, Category D, 800-2¼.
³Category D, 800-2¼.
⁴Category C, 800-2¼; Category D, 800-2½.

ESTHERVILLE, IA

ESTHERVILLE
MUNI (EST).....RNAV (GPS) Rwy 16
RNAV (GPS) Rwy 34

NA when local weather not available.

FAIRFIELD, IA

FAIRFIELD MUNI (FFL).....RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 36

NA when local weather not available.

FARMINGTON, MO

FARMINGTON
RGNL (FAM).....RNAV (GPS) Rwy 2
RNAV (GPS) Rwy 20

NA when local weather not available.

NAME ALTERNATE MINIMUMS

FOREST CITY, IA

FOREST CITY
MUNI (FXY).....RNAV (GPS) Rwy 15¹
RNAV (GPS) Rwy 33¹
VOR-A

NA when local weather not available.
¹Category C, 900-2½; Category D, 900-2¾.

FORT DODGE, IA

FORT DODGE
RGNL (FOD).....RNAV (GPS) Rwy 6
RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 24
RNAV (GPS) Rwy 30

NA when local weather not available.
Category D, 1000-3.

FORT LEONARD WOOD, MO

WAYNESVILLE-ST ROBERT RGNL FORNEY
FLD (TBN).....ILS or LOC Rwy 15¹²
RNAV (GPS) Rwy 15³
RNAV (GPS) Rwy 33³
VOR Rwy 15³⁴
VOR Rwy 33³⁴

¹ILS, NA when local weather not available.
²ILS, NA when control tower closed.
³NA when local weather not available.
⁴NA when control tower closed.

FORT MADISON, IA

FORT MADISON
MUNI (FSW).....RNAV (GPS) Rwy 17¹
RNAV (GPS) Rwy 35¹
VOR/DME-A²

¹Category D, 800-2½.
²NA when local weather not available.

GRINNELL, IA

GRINNELL RGNL (GGI).....RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 31
VOR/DME Rwy 31

NA when local weather not available.

HARRISONVILLE, MO

LAWRENCE SMITH
MEML (LRY).....RNAV (GPS) Rwy 17
RNAV (GPS) Rwy 35

NA when local weather not available.

INDEPENDENCE, IA

JAMES H CONNELL FLD AT INDEPENDENCE
MUNI (IIB).....RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 36

NA when local weather not available.
Category D, 1500-3.

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NAME ALTERNATE MINIMUMS

IOWA CITY, IA

IOWA CITY
MUNI (IOW).....RNAV (GPS) Rwy 25¹
RNAV (GPS) Rwy 30¹
VOR-A

NA when local weather not available.
¹Category C, 800-2¼; Category D, 800-2½.

IOWA FALLS, IA

IOWA FALLS
MUNI (IFA).....RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 31

NA when local weather not available.

JEFFERSON CITY, MO

JEFFERSON CITY
MEML (JEF).....ILS or LOC Rwy 30¹
RNAV (GPS) Rwy 12²
RNAV (GPS) Rwy 30²

NA when local weather not available.
¹ILS, Categories A, B, 800-2; Category C, 800-2¼; Category D, 1100-3; LOC, Category C, 800-2¼; Category D, 1100-3.
²Category C, 800-2¼; Category D, 1100-3.

JOPLIN, MO

JOPLIN RGNL (JLN).....ILS or LOC Rwy 13¹
ILS or LOC Rwy 18²

¹NA when tower closed.
²NA when control tower closed.

KAISER/LAKE OZARK, MO

LEE C FINE
MEML (AIZ).....RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR Rwy 4

NA when local weather not available.

KANSAS CITY, MO

CHARLES B WHEELER
DOWNTOWN (MKC).....ILS or LOC Rwy 3¹
ILS or LOC Rwy 19²
RNAV (GPS) Rwy 3³
RNAV (GPS) Rwy 19⁴
RNAV (GPS) Rwy 21³

¹LOC, Categories A, B, 900-2; Categories C, D, 900-2½.
²ILS, Categories A, B, C, 800-2; Category D, 800-2½; LOC, Category D, 800-2½.
³Category D, 800-2½.
⁴Category D, 900-3.

NAME ALTERNATE MINIMUMS

KEOKUK, IA

KEOKUK MUNI (EOK).....NDB Rwy 14
RNAV (GPS) Rwy 8
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 26
RNAV (GPS) Rwy 32

NA when local weather not available.

KIRKSVILLE, MO

KIRKSVILLE RGNL (IRK).....ILS or LOC Rwy 36

NA when local weather not available.

KNOXVILLE, IA

KNOXVILLE
MUNI (OXV).....RNAV (GPS) Rwy 15
RNAV (GPS) Rwy 33

NA when local weather not available.

LAMONI, IA

LAMONI MUNI (LWD).....RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 36

NA when local weather not available.

LE MARS, IA

LE MARS MUNI (LRJ).....RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 36

NA when local weather not available.

LEE'S SUMMIT, MO

LEE'S SUMMIT
MUNI (LXT).....RNAV (GPS) Rwy 11
RNAV (GPS) Rwy 18¹
RNAV (GPS) Rwy 29¹
RNAV (GPS) Rwy 36¹
VOR-A¹

Category C, 800-2¼; Category D, 800-2½.
¹NA when local weather not available.

MALDEN, MO

MALDEN RGNL (MAW).....RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 32
RNAV (GPS) Rwy 36

NA when local weather not available.

MARSHALLTOWN, IA

MARSHALLTOWN
MUNI (MIW).....RNAV (GPS) Rwy 13¹
RNAV (GPS) Rwy 31¹
VOR Rwy 13
VOR Rwy 31

Category D, 900-2½.
¹NA when local weather not available.

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POPLAR BLUFF, MO

POPLAR BLUFF RGNL
 BUSINESS (POF).....RNAV (GPS) Rwy 18
 RNAV (GPS) Rwy 36

NA when local weather not available.

RED OAK, IA

RED OAK
 MUNI (RDK).....RNAV (GPS) Rwy 5¹
 RNAV (GPS) Rwy 17

NA when local weather not available.

¹Categories A, B, 800-2¼.**ROLLA-VICHY, MO**

ROLLA NTL (VIH).....RNAV (GPS) Rwy 4
 VOR Rwy 22
 VOR/DME Rwy 4

NA when local weather not available.

ST. CHARLES, MO

ST CHARLES COUNTY
 SMARTT (SET).....RNAV (GPS) Rwy 18
 VOR Rwy 18

NA when local weather not available.

Category C, 800-2¼.

ST. JOSEPH, MO

ROSECRANS
 MEML (STJ).....ILS or LOC Rwy 35¹²
 LOC BC Rwy 17¹³
 RNAV (GPS) Rwy 13⁴⁵
 RNAV (GPS) Rwy 17⁴⁶
 RNAV (GPS) Rwy 31³⁴
 RNAV (GPS) Rwy 35⁴⁶
 VOR or TACAN Rwy 17⁶
 VOR or TACAN Rwy 35⁶

¹NA when control tower closed.²LOC, Category C, 800-2¼; Category D, 900-2¼; Category E, 1000-3.³Category C, 800-2¼; Category D, 900-2¼.⁴NA when local weather not available.⁵Category C, 800-2¼; Category D, 900-2¼.⁶Category C, 800-2¼; Category D, 900-2¼; Category E, 1000-3.**ST. LOUIS, MO**

SPIRIT OF
 ST. LOUIS (SUS).....ILS or LOC Rwy 8R²³
 ILS or LOC Rwy 26L²⁴
 RNAV (GPS) Rwy 8L¹
 RNAV (GPS) Rwy 8R¹⁵
 RNAV (GPS) Rwy 26L¹⁶
 RNAV (GPS) Rwy 26R¹

¹NA when local weather not available.²NA when control tower closed.³ILS, Categories A, B, C, 700-2; Category D, 700-2¼. LOC, NA.⁴ILS, Categories A, B, C, 700-2; Category D, 700-2¼. LOC, Category D, 800-2¼.⁵Category D, 800-2¼.⁶Category D, 900-3.

NAME ALTERNATE MINIMUMS

SEDALIA, MO

SEDALIA
 RGNL (DMO).....RNAV (GPS) Rwy 18
 RNAV (GPS) Rwy 36

NA when local weather not available.

Category D, 800-2¼.

SHELDON, IA

SHELDON
 RGNL (SHL).....RNAV (GPS) Rwy 15
 RNAV (GPS) Rwy 33

NA when local weather not available.

SHENANDOAH, IA

SHENANDOAH
 MUNI (SDA).....RNAV (GPS) Rwy 4
 VOR/DME Rwy 12

NA when local weather not available.

SIOUX CITY, IA

SIOUX GATEWAY/BRIG GENERAL BUD
 DAY FLD (SUX).....ILS or LOC Rwy 13¹²
 ILS or LOC Rwy 31¹³
 RNAV (GPS) Rwy 13⁴
 RNAV (GPS) Rwy 18⁵
 RNAV (GPS) Rwy 31⁴
 RNAV (GPS) Rwy 36⁵

NA when local weather not available.

¹NA when control tower closed.²LOC, Category D, 800-2¼; Category E, 900-3.³LOC, Category D, 800-2¼; Category E, 900-3.⁴Category D, 800-2¼; Category E, 1000-3.⁵Category D, 800-2¼.**SPENCER, IA**

SPENCER
 MUNI (SPW).....RNAV (GPS) Rwy 12¹
 RNAV (GPS) Rwy 18
 RNAV (GPS) Rwy 30¹
 RNAV (GPS) Rwy 36
 VOR Rwy 30¹

NA when local weather not available.

¹Category C, 800-2¼, Category D, 800-2¼.**SPRINGFIELD, MO**

SPRINGFIELD-BRANSON
 NTL (SGF).....ILS or LOC Rwy 21¹
 ILS or LOC Rwy 14⁴
 RNAV (GPS) Rwy 2²
 RNAV (GPS) Rwy 20²
 RNAV (GPS) Rwy 32²
 VOR/DME or TACAN Rwy 2³
 VOR or TACAN Rwy 20³

¹ILS, Category D, 700-2, Category E, 900-3. LOC, Category E, 900-3.²NA when local weather not available.³Category E, 800-2¼.⁴Category D, 700-2.

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VINTON, IA

VINTON VETERANS MEML
AIRPARK (VTI).....RNAV (GPS) Rwy 9
RNAV (GPS) Rwy 27
NA when local weather not available.

WARRENSBURG, MO

SKYHAVEN (RCM).....RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19
VOR-A
NA when local weather not available.

WASHINGTON, IA

WASHINGTON
MUNI (AWG).....RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 31
RNAV (GPS) Rwy 36
VOR Rwy 36

Category C, 800-2¼.

WASHINGTON, MO

WASHINGTON
RGNL (FYG).....RNAV (GPS) Rwy 15
RNAV (GPS) Rwy 33
VOR-A

NA when local weather not available.
Category C, 1100-3.

WATERLOO, IA

WATERLOO
RGNL (ALO).....ILS or LOC Rwy 12¹²
LOC BC Rwy 30¹²
RNAV (GPS) Rwy 12³
RNAV (GPS) Rwy 18³
RNAV (GPS) Rwy 30³
RNAV (GPS) Rwy 36³
VOR Rwy 12³
VOR Rwy 18³⁴

¹NA when control tower closed.
²LOC, Category D, 800-2¼.
³Category D, 800-2¼.
⁴NA when local weather not available.

WEBSTER CITY, IA

WEBSTER CITY
MUNI (EBS).....RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR/DME Rwy 14

NA when local weather not available.

WEST PLAINS, MO

WEST PLAINS
RGNL (UNO).....RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 36
NA when local weather not available.

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