

INSTRUMENT APPROACH PROCEDURE CHARTS

**A** IFR ALTERNATE AIRPORT MINIMUMS

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

**A**NA 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                              | <b>600-2</b>                                                                                                                                  | <b>800-2</b>           |
| <b>A</b> Non-Standard or restrictions | As indicated below                                                                                                                            | As indicated below     |
| Helicopters                           | For the selected approach:<br>Ceiling: 200' above published ceiling<br>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  
NA when local weather not available.

**AMES, IA**

AMES MUNI (AMW).....RNAV (GPS) Rwy 19  
NA when local weather not available.

**ANKENY, IA**

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

Category D, 900-2½.

**ATLANTIC, IA**

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

NA when local weather not available.  
Category C, 800-2½.

**AUDUBON, IA**

AUDUBON COUNTY (ADU).....RNAV (GPS) Rwy 32  
NA when local weather not available.

**BOONE, IA**

BOONE MUNI (BNW).....RNAV (GPS) Rwy 15  
RNAV (GPS) Rwy 33  
NA when local weather not available.

NAME ALTERNATE MINIMUMS

**BRANSON, MO**

BRANSON (BBG).....RNAV (GPS) Rwy 14<sup>1</sup>  
RNAV (GPS) Rwy 32<sup>2</sup>

NA when local weather not available.

<sup>1</sup>Category C, 800-2½; Category D, 800-2½.

<sup>2</sup>Category C, 1000-2½; 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.



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 5<sup>1</sup>  
ILS or LOC Rwy 13<sup>1</sup>  
ILS or LOC Rwy 31<sup>2</sup>  
RNAV (GPS) Rwy 5<sup>3,4</sup>  
RNAV (GPS) Rwy 13<sup>3</sup>  
RNAV (GPS) Rwy 23<sup>3,4</sup>  
RNAV (GPS) Rwy 31<sup>3</sup>  
VOR Rwy 23<sup>5</sup>

<sup>1</sup>LOC, Category D, 900-2½.  
<sup>2</sup>LOC, Category D, 900-2½; Category E, 900-2¼.  
<sup>3</sup>Category D, 900-2½.  
<sup>4</sup>NA when local weather not available.  
<sup>5</sup>Category C, 800-2¼; Category D, 900-2½.

**DUBUQUE, IA**

DUBUQUE  
RGNL (DBQ).....ILS or LOC Rwy 36<sup>12</sup>  
LOC Rwy 31<sup>13</sup>  
RNAV (GPS) Rwy 13  
RNAV (GPS) Rwy 18<sup>3</sup>  
RNAV (GPS) Rwy 31  
RNAV (GPS) Rwy 36  
VOR Rwy 13<sup>3</sup>  
VOR Rwy 31<sup>4</sup>  
VOR Rwy 36<sup>3</sup>

NA when local weather not available.  
<sup>1</sup>NA when control tower closed.  
<sup>2</sup>LOC, Category D, 800-2¼.  
<sup>3</sup>Category D, 800-2¼.  
<sup>4</sup>Category 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 15<sup>1</sup>  
RNAV (GPS) Rwy 33<sup>1</sup>  
VOR-A

NA when local weather not available.  
<sup>1</sup>Category C, 900-2½; Category D, 900-2¼.

**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 15<sup>1</sup>  
RNAV (GPS) Rwy 15  
RNAV (GPS) Rwy 33  
VOR Rwy 15<sup>1</sup>  
VOR Rwy 33<sup>1</sup>

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

**FORT MADISON, IA**

FORT MADISON  
MUNI (FSW).....RNAV (GPS) Rwy 17<sup>1</sup>  
RNAV (GPS) Rwy 35<sup>1</sup>  
VOR/DME-A<sup>2</sup>

<sup>1</sup>Category D, 800-2½.  
<sup>2</sup>NA 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**

LAURENCE 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.

NAME ALTERNATE MINIMUMS

**IOWA CITY, IA**

IOWA CITY  
MUNI (IOW).....RNAV (GPS) Rwy 25<sup>1</sup>  
RNAV (GPS) Rwy 30<sup>1</sup>  
VOR-A

NA when local weather not available.  
<sup>1</sup>Category 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 30<sup>1</sup>  
RNAV (GPS) Rwy 12<sup>2</sup>  
RNAV (GPS) Rwy 30<sup>2</sup>

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

**JOPLIN, MO**

JOPLIN RGNL (JLN).....ILS or LOC Rwy 13<sup>1</sup>  
ILS or LOC Rwy 18<sup>2</sup>

<sup>1</sup>NA when tower closed.  
<sup>2</sup>NA 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 3<sup>1</sup>  
ILS or LOC Rwy 19<sup>2</sup>  
RNAV (GPS) Rwy 3<sup>3</sup>  
RNAV (GPS) Rwy 19<sup>4</sup>  
RNAV (GPS) Rwy 21<sup>3</sup>

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

**KEOKUK, IA**

KEOKUK MUNI (EOK).....RNAV (GPS) Rwy 8  
RNAV (GPS) Rwy 14  
RNAV (GPS) Rwy 26  
RNAV (GPS) Rwy 32  
NA when local weather not available.

NAME ALTERNATE MINIMUMS

**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 18<sup>1</sup>  
RNAV (GPS) Rwy 29<sup>1</sup>  
RNAV (GPS) Rwy 36<sup>1</sup>  
VOR-A<sup>1</sup>

Category C, 800-2¼; Category D, 800-2½.  
<sup>1</sup>NA 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 13  
RNAV (GPS) Rwy 31

NA when local weather not available.  
Category D, 900-2¼.

**MASON CITY, IA**

MASON CITY  
MUNI (MCW).....ILS or LOC Rwy 36  
LOC BC Rwy 18  
RNAV (GPS) Rwy 18  
RNAV (GPS) Rwy 30  
RNAV (GPS) Rwy 36  
VOR Rwy 36

NA when local weather not available.

**MAURICE, IA**

SIOUX COUNTY  
RGNL (SXX).....RNAV (GPS) Rwy 17  
RNAV (GPS) Rwy 35

NA when local weather not available.  
Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

**MOBERLY, MO**

OMAR N  
BRADLEY (MBY).....RNAV (GPS) Rwy 13  
RNAV (GPS) Rwy 31  
NA when local weather not available.

**MONETT, MO**

MONETT RGNL (HFJ).....RNAV (GPS) Rwy 18  
RNAV (GPS) Rwy 36  
NA when local weather not available.  
Category D, 800-2½.

**MONTICELLO, IA**

MONTICELLO  
RGNL (MXO).....RNAV (GPS) Rwy 15  
RNAV (GPS) Rwy 33  
NA when local weather not available.

**MOSBY, MO**

MIDWEST NTL AIR  
CENTER (GPH).....RNAV (GPS) Rwy 36  
NA when local weather not available.

**MOUNT PLEASANT, IA**

MOUNT PLEASANT  
MUNI (MPZ).....RNAV (GPS) Rwy 15<sup>1</sup>  
RNAV (GPS) Rwy 33  
NA when local weather not available.  
<sup>1</sup>Categories A, B, C, 800-2¼.

**MUSCATINE, IA**

MUSCATINE  
MUNI (MUT).....RNAV (GPS) Rwy 6<sup>1</sup>  
RNAV (GPS) Rwy 12  
RNAV (GPS) Rwy 24<sup>2</sup>  
RNAV (GPS) Rwy 30  
NA when local weather not available.  
<sup>1</sup>Categories A, B, C, 800-2½; Category D, 1000-3.  
<sup>2</sup>Category D, 1000-3.

**NEOSHO, MO**

NEOSHO HUGH  
ROBINSON (EOS).....RNAV (GPS) Rwy 1  
RNAV (GPS) Rwy 19  
NA when local weather not available.

**NEWTON, IA**

NEWTON MUNI-EARL JOHNSON  
FLD (TNU).....RNAV (GPS) Rwy 14  
RNAV (GPS) Rwy 32  
VOR Rwy 14  
NA when local weather not available.

**OELWEIN, IA**

OELWEIN  
MUNI (OLZ).....RNAV (GPS) Rwy 13  
Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

**OSCEOLA, IA**

OSCEOLA  
MUNI (I75).....RNAV (GPS) Rwy 18  
RNAV (GPS) Rwy 36  
NA when local weather not available.

**OSKALOOSA, IA**

OSKALOOSA  
MUNI (OOA).....RNAV (GPS) Rwy 13  
RNAV (GPS) Rwy 31  
NA when local weather not available.

**OTTUMWA, IA**

OTTUMWA  
RGNL (OTM).....ILS or LOC Rwy 31  
LOC BC Rwy 13  
RNAV (GPS) Rwy 13  
RNAV (GPS) Rwy 31  
VOR Rwy 13  
NA when local weather not available.

**PELLA, IA**

PELLA MUNI (PEA).....NDB Rwy 34  
RNAV (GPS) Rwy 16  
RNAV (GPS) Rwy 34  
NA when local weather not available.

**PERRY, IA**

PERRY MUNI (PRO).....RNAV (GPS) Rwy 14  
RNAV (GPS) Rwy 32  
NA when local weather not available.

**PERRYVILLE, MO**

PERRYVILLE  
RGNL (PCD).....RNAV (GPS) Rwy 2<sup>1</sup>  
RNAV (GPS) Rwy 20<sup>2</sup>  
VOR-A<sup>2</sup>  
NA when local weather not available.  
<sup>1</sup>Categories A, B, C, D, 900-3.  
<sup>2</sup>Category C, 900-2¼; Category D, 900-3.

**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 5<sup>1</sup>  
RNAV (GPS) Rwy 17  
NA when local weather not available.  
<sup>1</sup>Categories 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.

07 SEP 2023 to 05 OCT 2023

07 SEP 2023 to 05 OCT 2023

NAME ALTERNATE MINIMUMS

**ST. CHARLES, MO**

ST CHARLES COUNTY RGNL/  
SMARTT FLD (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 35<sup>12</sup>**  
**LOC BC Rwy 17<sup>13</sup>**  
**RNAV (GPS) Rwy 13<sup>45</sup>**  
**RNAV (GPS) Rwy 17<sup>46</sup>**  
**RNAV (GPS) Rwy 31<sup>34</sup>**  
**RNAV (GPS) Rwy 35<sup>46</sup>**  
**VOR or TACAN Rwy 17<sup>6</sup>**  
**VOR or TACAN Rwy 35<sup>6</sup>**

<sup>1</sup>NA when control tower closed.  
<sup>2</sup>LOC, Category C, 800-2¼; Category D, 900-2¾;  
Category E, 1000-3.  
<sup>3</sup>Category C, 800-2¼; Category D, 900-2¾.  
<sup>4</sup>NA when local weather not available.  
<sup>5</sup>Category C, 800-2¼; Category D, 900-2¾.  
<sup>6</sup>Category C, 800-2¼; Category D, 900-2¾;  
Category E, 1000-3.

**ST. LOUIS, MO**

SPIRIT OF  
ST. LOUIS (SUS)..... **ILS or LOC Rwy 8R<sup>1</sup>**  
**ILS or LOC Rwy 26L<sup>1</sup>**  
**RNAV (GPS) Rwy 8L<sup>2</sup>**  
**RNAV (GPS) Rwy 8R<sup>3</sup>**  
**RNAV (GPS) Rwy 26L<sup>23</sup>**  
**RNAV (GPS) Rwy 26R<sup>2</sup>**

<sup>1</sup>ILS, LOC, Category D, 900-3.  
<sup>2</sup>NA when local weather not available.  
<sup>3</sup>Category D, 900-3.

**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.

NAME ALTERNATE MINIMUMS

**SIOUX CITY, IA**

SIOUX GATEWAY/BRIG GENERAL BUD  
DAY FLD (SUX)..... **ILS or LOC Rwy 13<sup>12</sup>**  
**ILS or LOC Rwy 31<sup>13</sup>**  
**RNAV (GPS) Rwy 13<sup>4</sup>**  
**RNAV (GPS) Rwy 18<sup>5</sup>**  
**RNAV (GPS) Rwy 31<sup>4</sup>**  
**RNAV (GPS) Rwy 36<sup>5</sup>**

NA when local weather not available.  
<sup>1</sup>NA when control tower closed.  
<sup>2</sup>LOC, Category D, 800-2¼; Category E, 900-3.  
<sup>3</sup>LOC, Category D, 800-2¼; Category E, 900-3.  
<sup>4</sup>Category D, 800-2¼; Category E, 1000-3.  
<sup>5</sup>Category D, 800-2¼.

**SPENCER, IA**

SPENCER  
MUNI (SPW)..... **RNAV (GPS) Rwy 12<sup>1</sup>**  
**RNAV (GPS) Rwy 18**  
**RNAV (GPS) Rwy 30<sup>1</sup>**  
**RNAV (GPS) Rwy 36**  
**VOR Rwy 30<sup>1</sup>**

NA when local weather not available.  
<sup>1</sup>Category C, 800-2¼, Category D, 800-2½.

**SPRINGFIELD, MO**

SPRINGFIELD-BRANSON  
NTL (SGF)..... **ILS or LOC Rwy 2<sup>1</sup>**  
**ILS or LOC Rwy 14<sup>4</sup>**  
**RNAV (GPS) Rwy 2<sup>2</sup>**  
**RNAV (GPS) Rwy 20<sup>2</sup>**  
**RNAV (GPS) Rwy 32<sup>2</sup>**  
**VOR/DME or TACAN Rwy 2<sup>3</sup>**  
**VOR or TACAN Rwy 20<sup>3</sup>**

<sup>1</sup>ILS, Category D, 700-2, Category E, 900-3. LOC,  
Category E, 900-3.  
<sup>2</sup>NA when local weather not available.  
<sup>3</sup>Category E, 800-2¼.  
<sup>4</sup>Category D, 700-2.

**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.

07 SEP 2023 to 05 OCT 2023

07 SEP 2023 to 05 OCT 2023

23222

NAME ALTERNATE MINIMUMS

NAME ALTERNATE MINIMUMS

**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 12<sup>12</sup>  
LOC BC Rwy 30<sup>12</sup>  
RNAV (GPS) Rwy 12<sup>3</sup>  
RNAV (GPS) Rwy 18<sup>3</sup>  
RNAV (GPS) Rwy 30<sup>3</sup>  
RNAV (GPS) Rwy 36<sup>3</sup>  
VOR Rwy 12<sup>3</sup>  
VOR Rwy 18<sup>34</sup>

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

**WEBSTER CITY, IA**

WEBSTER CITY

MUNI (EBS).....RNAV (GPS) Rwy 14  
RNAV (GPS) Rwy 32

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.

07 SEP 2023 to 05 OCT 2023

07 SEP 2023 to 05 OCT 2023

23222

M7