



INSTRUMENT APPROACH PROCEDURE CHARTS

IFR ALTERNATE AIRPORT MINIMUMS

Pilots must review the IFR Alternate Minimums Notes to determine alternate airport suitability. **⚠️**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 **⚠️**NA designation are not listed in this section. **⚠️** 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
⚠️ 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

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, 900-2¾.

ATLANTIC, IA
ATLANTIC MUNI (AIO).....RNAV (GPS) Rwy 2
RNAV (GPS) Rwy 20
NA when local weather not available.
Category C, 800-2¾.

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 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 5³⁴

RNAV (GPS) Rwy 13³

RNAV (GPS) Rwy 23³⁴

RNAV (GPS) Rwy 31³

VOR Rwy 23⁵

¹LOC, Category D, 900-2½.

²LOC, Category D, 900-2½; Category E, 900-2½.

³Category D, 900-2½.

⁴NA when local weather not available.

⁵Category 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, 800-2½.

³Category D, 800-2½.

⁴Category C, 800-2½; 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/

TRIMBLE FLD (FXY).....RNAV (GPS) Rwy 15¹

RNAV (GPS) Rwy 33¹

VOR-A

NA when local weather not available.

¹Category C, 900-2½; Category D, 900-2½.

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 15¹

RNAV (GPS) Rwy 15

RNAV (GPS) Rwy 33

VOR Rwy 15¹

VOR Rwy 33¹

NA when local weather not available.

¹NA when control tower closed.

FORT MADISON, IA

FORT MADISON

MUNI (FSW).....RNAV (GPS) Rwy 17

RNAV (GPS) Rwy 35

VOR-A

NA when local weather not available.

Category D, 800-2½.

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.

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 30¹²
RNAV (GPS) Rwy 12³
RNAV (GPS) Rwy 30³

NA when local weather not available.

¹NA control tower closed.

²LOC, Category C, 800-2¼; Category D, 1100-3.

³Category 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

KANSAS CITY DOWNTOWN/WHEELER
FLD (MKC).....ILS or LOC Rwy 4¹
ILS or LOC Rwy 19²
RNAV (GPS) Rwy 4³
RNAV (GPS) Y Rwy 19³

¹LOC, Categories A, B, 900-2;
Categories C, D, 900-2½.

²LOC, Category D, 800-2¼.

³Category D, 800-2½.

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.

KIRKSVILLE, MO

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

NA when local weather not available.

NAME ALTERNATE MINIMUMS

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.

LEBANON, MO

FLOYD W JONES
LEBANON (LBO).....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

KANSAS CITY/LEE'S SUMMIT
RGNL (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 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
RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 30
RNAV (GPS) Rwy 36
VOR Rwy 36

NA when local weather not available.

NAME ALTERNATE MINIMUMS

MAURICE, IA
SIOUX COUNTY
RGNL (SXK).....RNAV (GPS) Rwy 17
RNAV (GPS) Rwy 35
NA when local weather not available.
Category D, 800-2½.

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 15¹
RNAV (GPS) Rwy 33
NA when local weather not available.
¹Categories A, B, C, 800-2½.

MUSCATINE, IA
MUSCATINE
MUNI (MUT).....RNAV (GPS) Rwy 6¹
RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 24²
RNAV (GPS) Rwy 30
NA when local weather not available.
¹Categories A, B, C, 800-2½; Category D, 1000-3.
²Category 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.

NAME ALTERNAME MINIMUMS

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

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

PELLA, IA
PELLA MUNI (PEA).....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.
Category D, 900-2¼.

PERRYVILLE, MO
PERRYVILLE
RGNL (PCD).....RNAV (GPS) Rwy 2
RNAV (GPS) Rwy 20
VOR-A
NA when local weather not available.
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 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.

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 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, 900-2¾;
Category E, 1000-3.
³Category C, 800-2¼; Category D, 900-2¾.
⁴NA when local weather not available.
⁵Category C, 800-2¼; Category D, 900-2¾.
⁶Category C, 800-2¼; Category D, 900-2¾;
Category E, 1000-3.

ST LOUIS, MO

SPIRIT OF
ST LOUIS (SUS)..... **ILS or LOC Rwy 8R¹**
ILS or LOC Rwy 26L²³⁴
RNAV (GPS) Rwy 8L²
RNAV (GPS) Rwy 8R⁵
RNAV (GPS) Rwy 26L²⁵
RNAV (GPS) Rwy 26R²

- ¹ILS, LOC, Category D, 900-3.
²NA when local weather not available.
³NA when control tower closed.
⁴LOC, Category D, 900-3.
⁵Category 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 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, 800-2¾.

SPRINGFIELD, MO

SPRINGFIELD-BRANSON
NTL (SGF)..... **ILS or LOC Rwy 2¹**
ILS or LOC Rwy 14²
RNAV (GPS) Rwy 2³
RNAV (GPS) Rwy 20³
RNAV (GPS) Rwy 32³
VOR/DME or TACAN Rwy 2⁴

¹ILS, Category D, 700-2, Category E, 900-3. LOC,
Category E, 900-3.

²ILS, Category D, 700-2.

³NA when local weather not available.

⁴Category E, 800-2¼.

STORM LAKE, IA

STORM LAKE
MUNI (SLB)..... **RNAV (GPS) Rwy 17**

NA when local weather not available.

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

NA when local weather not available.

NAME	ALTERNATE MINIMUMS	NAME	ALTERNATE MINIMUMS
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 12 ¹²
	LOC BC Rwy 30 ¹²
	RNAV (GPS) Rwy 12 ³
	RNAV (GPS) Rwy 18 ³
	RNAV (GPS) Rwy 30 ³
	RNAV (GPS) Rwy 36 ³
	VOR Rwy 12 ³
	VOR Rwy 18 ³⁴

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
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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