

# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

09295

## INSTRUMENT APPROACH PROCEDURE CHARTS

### IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

#### Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

#### NAME TAKE-OFF MINIMUMS

##### ABERDEEN, SD

ABERDEEN RGNL (ABR)  
ORIG 09239 (FAA)

NOTE: **Rwy 17**, trees 1138' from DER, 432' right of centerline, 41' AGL/1336' MSL. **Rwy 31**, multiple trees beginning 1391' from DER, 326' left of centerline, up to 65' AGL/1360' MSL.

##### AITKIN, MN

AITKIN MUNI-STEVE KURTZ FIELD (AIT)  
AMD2 2 96172 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 26**, 300-1. **Rwy 16**, 300-1 or std. with a min climb of 400' per NM to 1500.  
DEPARTURE PROCEDURE: **Rwys 16, 26**, climb runway heading to 1700 before turning.

##### ALBERT LEA, MN

ALBERT LEA MUNI (AEL)  
ORIG 85241 (FAA)

DEPARTURE PROCEDURE: **Rwys 16, 22**, climb runway heading to 1800 before turning on course.

##### ALEXANDRIA, MN

CHANDLER FIELD (AXN)

DEPARTURE PROCEDURE: **Rwys 4, 13, 22**, when weather is below 200-1, climb runway heading to 1800 before turning.

#### NAME TAKE-OFF MINIMUMS

##### APPLETON, MN

APPLETON MUNI (AQP)  
ORIG 94146 (FAA)

DEPARTURE PROCEDURE: **Rwy 4**, climb to 2000 before turning right. **Rwy 31**, climb to 2000 before turning left.  
**Rwy 13**, climb to 2400 before turning right. **Rwy 22**, climb to 2400 before turning left.

##### AUSTIN, MN

AUSTIN MUNI (AUM)  
ORIG 08045 (FAA)

NOTE: **Rwy 17**, Multiple trees beginning 809' from departure end of runway, 663' right of centerline, up to 61' AGL/1285' MSL. **Rwy 35**, Tree 1380' from departure end of runway, 484' right of centerline, 100' AGL/1314' MSL.

##### BAUDETTE, MN

BAUDETTE INTL (BDE)  
ORIG 01193 (FAA)

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading to 1700 before turning northbound.

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**BELLE FOURCHE, SD**

BELLE FOURCHE MUNI (EFC)  
AMDT 2 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 18,36, NA**, **Rwy 14**, std. w/ min. climb of 240' per NM to 9000 or 1400-3 for climb in visual conditions. **Rwy 32**, std. w/ min. climb of 413' per NM to 3900.

DEPARTURE PROCEDURE: **Rwy 14**, for climb in visual conditions: cross Belle Fourche Muni airport at or above 4400 MSL before proceeding on course. **Rwy 32**, climb heading 321° to 3900 before proceeding southbound.

NOTE: **Rwy 14**, trees 651' from departure end of runway, 547' left of centerline, up to 20' AGL/3299' MSL. **Rwy 32**, trees 857' from departure end of runway, 150' left of centerline, up to 20' AGL/3199' MSL. Trees 3880' from departure end of runway, 966' right of centerline, up to 20' AGL/3289' MSL.

**BEMIDJI, MN**

BEMIDJI RGNL (BJI)  
AMDT 3 08213 (FAA)

NOTE: **Rwy 7**, vegetation beginning 859' from departure end of runway, 544' right of centerline, up to 62' AGL/1442' MSL. Vegetation beginning 1404' from departure end of runway, 683' left of centerline, up to 44' AGL/1424' MSL. **Rwy 13**, vehicle on road, 541' from departure end of runway, 525' right of centerline, 15' AGL/1398' MSL. **Rwy 25**, poles beginning 1337' from departure end of runway, 205' right of centerline up to 61' AGL/1445' MSL. Trees beginning 1414' from departure end of runway, 254' left of centerline, up to 57' AGL/1441' MSL. Tree 1406' from departure end of runway, 233' right of centerline, 53' AGL/1437' MSL.

**BENSON, MN**

BENSON MUNI (BBB)  
AMDT 1 09127 (FAA)

NOTE: **Rwy 14**, numerous trees beginning 838' from DER, 246' right of centerline, up to 33' AGL/1087' MSL. Numerous trees beginning 1232' from DER, 64' left of centerline, up to 69' AGL/1108' MSL. Sign 206' from DER, 198' left of centerline, 19' AGL/1044' MSL. Tower 4884' from DER, 274' right of centerline, 126' AGL/1161' MSL. **Rwy 32**, Tree 2380' from DER, 646' left of centerline, 68' AGL/1107' MSL. Multiple fences beginning 13' from DER, 361' left of centerline, up to 8' AGL/1043' MSL.

**BIGFORK, MN**

BIGFORK MUNI (FOZ)  
ORIG 97198 (FAA)

TAKE-OFF MINIMUMS: **Rwy 15**, 400-1 or std. with a min. climb of 250' per NM to 1800.

**BISMARCK, ND**

BISMARCK MUNI (BIS)  
AMDT 7 01137 (FAA)

DEPARTURE PROCEDURE: **Rwys 3, 31**, climb runway heading to 2500 before proceeding on course.

**Rwys 13, 21**, climb runway heading to 3800 before proceeding south.

**BOTTINEAU, ND**

BOTTINEAU MUNI (D09)  
ORIG 98113 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, 800-1 or std. with a min. climb of 280' per NM to 2500. **Rwy 31**, 900-2 or std. with a min. climb of 360' per NM to 2900. **Rwys 3, 21**, NA.

**BRAINERD, MN**

BRAINERD LAKES RGNL (BRD)  
AMDT 5 07074 (FAA)

NOTE: **Rwy 12**, multiple trees beginning 165' from departure end of runway, 417' left of centerline, up to 78' AGL/1279' MSL. Multiple trees and vehicle on road beginning 304' from departure end of runway, 206' right of centerline, up to 66' AGL/1277' MSL. **Rwy 16**, multiple trees beginning 1830' from departure end of runway, 749' left of centerline, up to 74' AGL/1314' MSL. **Rwy 23**, multiple trees beginning 1495' from departure end of runway, 179' left of centerline, up to 48' AGL/1285' MSL. Tree 2437' from departure end of runway, 716' right of centerline, 50' AGL/1279' MSL. **Rwy 30**, multiple trees beginning 243' from departure end of runway, 131' left of centerline, up to 61' AGL/1287' MSL. Multiple trees 48' from departure end of runway, 328' right of centerline, up to 59' AGL/1329' MSL.

**BRITTON, SD**

BRITTON MUNI (BTN)  
AMDT 2 96060 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, 300-1 or std. with a min. climb of 450' per NM to 1600. **Rwy 19**, 300-1. DEPARTURE PROCEDURE: **Rwy 19**, climb runway heading to 2000 before turning.

**BROOKINGS, SD**

BROOKINGS RGNL (BKX)  
ORIG 09015 (FAA)

NOTE: **Rwy 12**, pole and trees beginning 1041' from departure end of runway, 207' left of centerline, up to 65' AGL/1705' MSL. Building 1277' from departure end of runway, 825' right of centerline, 38' AGL/1618' MSL. **Rwy 17**, vehicle on road 799' from departure end of runway, on centerline, up to 15' AGL/1687' MSL. Trees beginning 906' from departure end of runway, 464' left of centerline, up to 100' AGL/1749' MSL. **Rwy 30**, railroad beginning 547' from departure end of runway, 502' right of centerline, 23' AGL/1626' MSL. Tree 132' from departure end of runway, 433' left of centerline, 20' AGL/1615' MSL. **Rwy 35**, trees 2892' from departure end of runway, 944' right of centerline, up to 100' AGL/1709' MSL.

**CANBY, MN**

MYERS FIELD (CNB)  
ORIG 07186 (FAA)

NOTE: **Rwy 12**, truck on road 183' from departure end of runway, 220' right of centerline, 15' AGL/1204' MSL.

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**CASSELTON, ND**

CASSELTON ROBERT MILLER RGNL (5N8)  
ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 31**, 400-2½ or std. w/ a min. climb of 212' per NM to 1400 or alternatively, with standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1700' prior to departure end of runway.

NOTE: **Rwy 13**, railroad 30' from departure end of runway, 505' right of centerline, 23' AGL/945' MSL. Vehicle on road 449' from departure end of runway, 300' left of centerline, 15' AGL/949' MSL. **Rwy 31**, trees 2251' from departure end of runway, 456' left of centerline, up to 100' AGL/1052' MSL.

**CAVALIER, ND**

CAVALIER MUNI (2C8)  
ORIG 03191 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, 300-1 or std. with a min. climb of 430' per NM to 1200.

NOTE: **Rwy 16**, grain elevator 3731' from departure end of runway, 284' left of centerline, 168' AGL/1060' MSL.

**CLOQUET, MN**

CLOQUET CARLTON COUNTY (COQ)  
AMDT 1 80248 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1 or std. with a min. climb of 400' per NM to 1400.

**CROOKSTON, MN**

CROOKSTON MUNI-KIRKWOOD FIELD (CKN)  
AMDT 2 07298 (FAA)

TAKE-OFF MINIMUMS: **Rwys 6, 17, 24, 35**, NA-turf runways.

NOTE: **Rwy 13**, tree 1998' from departure end of runway, 587' left of centerline, 94' AGL/970' MSL. Pole 1127' from departure end of runway, 662' left of centerline, 46' AGL/926' MSL.

**DETROIT LAKES, MN**

DETROIT LAKES-WETHING FIELD (DTL)  
ORIG 05132 (FAA)

TAKE-OFF MINIMUMS: **Rwys 17, 35**, NA.

NOTE: **Rwy 31**, highway 243' from departure end of runway, 267' right of centerline, 15' AGL/1404' MSL. Railroad 534' from departure end of runway, 298' right of centerline, 23' AGL/1411' MSL.

**DEVILS LAKE, ND**

DEVILS LAKE RGNL (DVL)  
AMDT 1 80318 (FAA)

TAKE-OFF MINIMUMS: **Rwy 31**, 300-1 or std. with a min. climb of 350' per NM to 1600.

**DICKINSON, ND**

DICKINSON-THEODORE ROOSEVELT RGNL (DIK)  
AMDT 1 05244 (FAA)

DEPARTURE PROCEDURE: **Rwy 25**, climb via heading 250° to 3100 before turning left.

NOTE: **Rwy 7**, road 887' from departure end of runway, on rwy centerline, 15' AGL/2631' MSL.

**DODGE CENTER, MN**

DODGE CENTER (TOB)  
ORIG 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, NA-Environmental.

NOTE: **Rwy 16**, trees 3945' from departure end of runway, 1542' left of centerline, 100' AGL/1409' MSL.

**DULUTH, MN**

DULUTH INTL (DLH)  
ORIG 06327 (FAA)

NOTE: **Rwy 3**, multiple trees beginning 21' from departure end of runway, 226' right of centerline, up to 68' AGL/1477' MSL. Multiple trees beginning 246' from departure end of runway, 26' left of centerline, up to 64' AGL/1473' MSL. **Rwy 9**, electrical equipment 207' from departure end of runway, 408' left of centerline, 6' AGL/1425' MSL. **Rwy 21**, tower 3762' from departure end of runway, 410' left of centerline, 92' AGL/1522' MSL.

**Rwy 27**, tree 2426' from departure end of runway, 1127' right of centerline, 53' AGL/1522' MSL. Bush and multiple trees beginning 347' from departure end of runway, 484' left of centerline, up to 44' AGL/1533' MSL.

**SKY HARBOR (DYT)**

ORIG 83174 (FAA)

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1. **Rwy 32**, 1500-2 or std. with a min. climb of 360' per NM to 2300.

DEPARTURE PROCEDURE: **Rwy 14**, northwest departures (260° CW 030°) climb to 2300 via heading 260° or 030° before proceeding on course.

**EAGLE BUTTE, SD**

CHEYENNE EAGLE BUTTE (84D)  
ORIG 96228 (FAA)

TAKE-OFF MINIMUMS: **Rwys 13, 31**, 300-1.

**ELY, MN**

ELY MUNI (ELO)  
AMDT 2 97086 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, 300-1 or std. with a min. climb of 200' per NM to 1600.

DEPARTURE PROCEDURE: **Rwy 30**, northbound departures climb runway heading to 2000 before turning.

**EVELETH, MN**

EVELETH-VIRGINIA MUNI (EVM)  
AMDT 2 94118 (FAA)

TAKE-OFF MINIMUMS: **Rwy 32**, 800-2 or std. with a min. climb to 330' per NM to 2300.

DEPARTURE PROCEDURE: **Rwy 27**, northwest departures (270°-050°) climb runway heading to 2200 before turning.

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## FAIRMONT, MN

FAIRMONT MUNI (FRM)  
AMDT 3 09127 (FAA)

NOTE: **Rwy 2**, trees beginning 2466' from DER, 1105' right of centerline, up to 100' AGL/1269' MSL. **Rwy 13**, tree 2340' from DER, 1039' left of centerline, 100' AGL/1269' MSL. **Rwy 20**, trees beginning 1640' from DER, 914' right of centerline, up to 100' AGL/1289' MSL. Trees beginning 913' from DER, 449' left of centerline, up to 100' AGL/1299' MSL. **Rwy 31**, trees beginning 954' from DER, 161' left of centerline, up to 100' AGL/1299' MSL. Trees and road beginning 791' from DER, 339' right of centerline, up to 57' AGL/1226' MSL.

## FARGO, ND

HECTOR INTL (FAR)  
AMDT 4 04330 (FAA)

TAKE-OFF MINIMUMS: **Rwys 13, 31**, NA.

NOTE: **Rwy 9**, multiple light poles 1124' from departure end of runway, 305' left of centerline, 20' AGL/927' MSL.

## FERGUS FALLS, MN

FERGUS FALLS MUNI-EINAR MICKELSON  
FIELD (FFM)  
ORIG 09239 (FAA)

NOTE: **Rwy 13**, trees beginning 2612' from DER, 128' right of centerline, up to 100' AGL/1269' MSL. Trees beginning 2514' from DER, 42' left of centerline, up to 100' AGL/1259' MSL. **Rwy 17**, trees beginning 1100' from DER 663' right of centerline, up to 100' AGL/1269' MSL. Road 222' from DER, 469' right of centerline, 15' AGL/1173' MSL. **Rwy 35**, trees beginning 2156' from DER, 176' right of centerline, up to 100' AGL/1289' MSL.

## FOSSTON, MN

FOSSTON MUNI (FSE)  
AMDT 1 87351 (FAA)

TAKE-OFF MINIMUMS: **Rwys 14, 32**, IFR takeoff not authorized.

DEPARTURE PROCEDURE: **Rwy 16**, climb runway heading to 2000 before turning.

## GETTYSBURG, SD

GETTYSBURG MUNI (0D8)  
AMDT 1 07018 (FAA)

NOTE: **Rwy 4**, multiple trees beginning 1011' from departure end of runway, 420' left of centerline, up to 60' AGL/2119' MSL. **Rwy 13**, multiple trees beginning 1897' from departure end of runway, 975' left of centerline, 60' AGL/2119' MSL. **Rwy 22**, multiple trees beginning 679' from departure end of runway, 117' left of centerline, up to 60' AGL/2109' MSL.

## GLENCOE, MN

GLENCOE MUNI (GYL)  
ORIG 09071 (FAA)

NOTE: **Rwy 13**, trees beginning 349' from DER, 257' right of centerline, up to 100' AGL/1099' MSL. Trees beginning 1211' from DER, 314' left of centerline, up to 100' AGL/1109' MSL. Terrain beginning 53' from DER, 166' left of centerline, up to 998' MSL. Terrain beginning 286' from DER, 435' right of centerline, up to 1001' MSL. **Rwy 31**, trees beginning 501' from DER, 530' right of centerline, up to 100' AGL/1099' MSL. Tree 2577' from DER, 129' left of centerline, 100' AGL/1109' MSL.

## GLENWOOD, MN

GLENWOOD MUNI (GHW)  
AMDT 2 98337 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 1200-2 or std. with a min. climb of 220' per NM to 2900.

## GRAFTON, ND

HUTSON FIELD (GAF)  
ORIG 97086 (FAA)

TAKE-OFF MINIMUMS: **Rwy 35**, 400-2 or std. with a min. climb of 420' per NM to 1300.

## GRAND FORKS, ND

GRAND FORKS INTL (GFK)  
AMDT 2 09071 (FAA)

NOTE: **Rwy 9L**, tree 127' from DER, 451' left of centerline, 12' AGL/853' MSL. **Rwy 27R**, bush 38' from DER, 474' right of centerline, 5' AGL/844' MSL. **Rwy 35L**, obstruction light on DME 645' from DER, 198' left of centerline, 21' AGL/860' MSL. **Rwy 35R**, tree 1259' from DER, 521' right of centerline, 41' AGL/880' MSL. Tree 1655' from DER, 271' left of centerline, 45' AGL/884' MSL.

## GRANT MARAIS, MN

GRANT MARAIS/COOK COUNTY (CKC)  
ORIG 09015 (FAA)

NOTE: **Rwy 9**, trees beginning 58' from departure end of runway, 168' right of centerline up to 54' AGL/1833' MSL. Bushes 112' from departure end of runway, 142' left of centerline, 11' AGL/1805' MSL. Tree 464' from departure end of runway, 75' left of centerline, 14' AGL/1813' MSL. **Rwy 27**, trees beginning 85' from departure end of runway, 187' left of centerline, up to 59' AGL/1858' MSL. Trees beginning 282' from departure end of runway, 115' right of centerline, up to 42' AGL/1861' MSL.

## GRAND RAPIDS, MN

GRAND RAPIDS/ITASCA COUNTY-GORDON  
NEWSTROM FIELD (GPZ)  
AMDT 4 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5, 10, 23, 28**, NA-Environmental.

NOTE: **Rwy 16**, tree 1655' from DER, 899' left of centerline, 51' AGL/1410' MSL. Tree 3236' from DER, 1130' right of centerline, 82' AGL/1441' MSL. **Rwy 34**, tree 3416' from DER, 1253' right of centerline, 100' AGL/1399' MSL.

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## GREGORY, SD

GREGORY MUNI, FLYNN FIELD (9D1)  
ORIG 97142 (FAA)

TAKE-OFF MINIMUMS: **Rwy 31**, 400-2 or std. with a min. climb of 210' per NM to 2600.

## GWINNER, ND

GWINNER-ROGER MELROE FIELD (GWR)  
ORIG 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwys 6, 24**, NA-Environment. **Rwy 34**, Std. w/ min. climb of 216' per NM to 2000, or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 34**, for climb in visual conditions, cross Gwinner-Roger Melroe Field at or above 2000, before proceeding on course.

NOTE: **Rwy 16**, terrain beginning 15' from DER, 73' right of centerline, 1257' MSL. **Rwy 34**, road and vehicle 436' from DER, on centerline, 15' AGL/1286' MSL.

## HAWLEY, MN

HAWLEY MUNI (04Y)  
ORIG 07074 (FAA)

NOTE: **Rwy 34**, road 15' from departure end of runway, 421' left of centerline, 15' AGL/1224' MSL.

## HETTINGER, ND

HETTINGER MUNI (HEI)  
AMDT 1 98225 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, 300-1 or std. with a min. climb rate of 220' per NM to 3000. **Rwys 17, 35** NA.

## HIBBING, MN

CHISHOLM-HIBBING (HIB)  
AMDT 6 04218 (FAA)

DEPARTURE PROCEDURE: **Rwy 22**, climb via heading 227° to 2200 before turning right. **Rwy 31**, climb via heading 310° to 2200 before turning left.

NOTE: **Rwy 4**, antenna on pole, 361' from departure end of runway, 409' right of centerline, 1377' MSL. **Rwy 13**, obstacle light on pole, 1184' from departure end of runway, 636' left of centerline. Numerous trees beginning 1291' from departure end of runway, 745' left of centerline up to 1419' MSL. Trees 1497' from departure end of runway, 563' right of centerline, 1388' MSL. **Rwy 22**, multiple trees beginning 368' from departure end of runway, 170' right of centerline, up to 1416' MSL. Multiple trees beginning 413' from departure end of runway, 117' left of centerline, up to 1400' MSL. **Rwy 31**, light standard, 865' from departure end of runway, 595' right of centerline, 1381' MSL.

## HILLSBORO, ND

HILLSBORO MUNI (3H4)  
ORIG 97198 (FAA)

DEPARTURE PROCEDURE: **Rwys 16, 34**, climb runway heading to 2000 prior to turning westbound.

## HINCKLEY, MN

FIELD OF DREAMS (04W)  
ORIG 08045 (FAA)

NOTE: **Rwy 6**, Tree 82' from departure end of runway, 480' right of centerline, 100' AGL/1114' MSL. Tree 143' from departure end of runway, 161' left of centerline, 100' AGL/1114' MSL. **Rwy 24**, Tree 48' from departure end of runway, 165' left of centerline, 100' AGL/1124' MSL.

## HOT SPRINGS, SD

HOT SPRINGS MUNI (HSR)  
ORIG 97142 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. with a min. climb of 360' per NM to 5000. **Rwy 19**, 300-2 or std. with a min. climb of 250' per NM to 5000.

DEPARTURE PROCEDURE: **Rwys 1, 19**, climb runway heading to 5000 before proceeding westbound.

## HURON, SD

HURON RGNL (HON)  
AMDT 5 09239 (FAA)

NOTE: **Rwy 12**, trees and pole beginning 918' from DER, 525' left of centerline, up to 62' AGL/1341' MSL. Trees beginning 291' from DER, 234' right of centerline, up to 100' AGL/1389' MSL. **Rwy 17**, trees beginning 236' from DER, 307' left of centerline, up to 67' AGL/1346' MSL. Trees beginning 264' from DER, 262' right of centerline, 73' AGL/1352' MSL. **Rwy 30**, trees beginning 3428' from DER, 1378' left of centerline, up to 100' AGL/1394' MSL. **Rwy 35**, trees beginning 60' from DER, 104' left of centerline, up to 49' AGL/1328' MSL. Trees beginning 251' from DER, 97' right of centerline, 52' AGL/1331' MSL.

## INTERNATIONAL FALLS, MN

FALLS INTL (INL)  
AMDT 3 08101 (FAA)

NOTE: **Rwy 4**, Tree 392' from departure end of runway 311' left of centerline, 51' AGL/1231' MSL. **Rwy 13**, multiple trees beginning 1999' from departure end of runway, 773' left of centerline, up to 63' AGL/1233' MSL. Pole 1091, from departure end of runway, 703' right of centerline, 37' AGL/1207' MSL. Road 1005' from departure end of runway, 766' left of centerline, 15' AGL/1195' MSL. **Rwy 22**, Multiple trees beginning 433' from departure end of runway 273' left of centerline, up to 33' AGL/1213' MSL. Trees 1144' from departure end of runway 136' right of centerline, 28' AGL/1208' MSL. **Rwy 31**, Trees 968' from departure end of runway, 752' left of centerline, 56' AGL/1236' MSL.

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## JACKSON, MN

JACKSON MUNI (MJQ)  
ORIG 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4,22**, NA-TURF.  
DEPARTURE PROCEDURE: **Rwy 13**, Climb heading  
134° to 1900 before turning right.

NOTES: **Rwy 13**, Trees beginning 1474' from departure  
end of runway, 556' left of centerline, up to 80' AGL/1539'  
MSL. Vehicle on road 258' from departure end of  
runway, 559' from centerline, 15' AGL/1459' MSL. **Rwy  
31**, Vehicle on road 465' from departure end of runway,  
618' left of centerline, 15' AGL/1446' MSL. Trees  
beginning 1616' from departure end of runway, 580' right  
of centerline, up to 80' AGL/1519' MSL. Trees  
beginning 1110' from departure end of runway, 429' left  
of centerline, up to 80' AGL/1509' MSL.

## JAMESTOWN, ND

JAMESTOWN RGNL (JMS)  
AMDT 1 07242 (FAA)

NOTE: **Rwy 22**, antenna and tank beginning 2960' from  
departure end of runway, 1007' left of centerline, up to  
150' AGL/1631' MSL. **Rwy 31**, multiple trees beginning  
2129' from departure end of runway 47' right of  
centerline, up to 60' AGL/1560' MSL.

## LITCHFIELD, MN

LITCHFIELD MUNI (LJF)

DEPARTURE PROCEDURE: **Rwys 13,31**, climb to  
1800 on runway heading before proceeding on course.

## LITTLE FALLS, MN

LITTLE FALLS/MORRISON COUNTY  
CHARLES A. LINDBERGH FIELD (LXL)  
AMDT 3 96172 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, 300-1 or std. with a  
min. climb of 250' per NM to 1500. **Rwy 36**, 600-1½ or  
std. with a min. climb of 345' per NM to 1700.

DEPARTURE PROCEDURE: **Rwy 31**, climb to 1700  
before turning.

## LONG PRAIRIE, MN

TODD FIELD (14Y)  
ORIG 08157 (FAA)

NOTE: **Rwy 16**, tree 273' from departure end of runway,  
310' right of centerline, 100' AGL/1436' MSL. **Rwy 34**,  
tree 70' from departure end of runway, 100' right of  
centerline, 100' AGL/1439' MSL. Tree 122' from  
departure end of runway, 105' left of centerline, 100' AGL/  
1436' MSL. Tree 18' from departure end of runway, 106'  
right of centerline, 100' AGL/1433' MSL.

## MANKATO, MN

MANKATO RGNL (MKT)  
ORIG 09267 (FAA)

NOTE: **Rwy 4**, trees beginning 447' from DER, 408'  
right of centerline, up to 100' AGL/1078' MSL. Trees  
beginning 1996' from DER, 17' left of centerline, up to  
100' AGL/1084' MSL. **Rwy 15**, trees beginning 1552'  
from DER, 719' left of centerline, up to 100' AGL/1088'  
MSL. **Rwy 22**, trees beginning 2370' from DER, 989'  
right of centerline, up to 100' AGL/1069' MSL. **Rwy 33**,  
trees beginning 2085' from DER, 780' right of  
centerline, up to 100' AGL/1077' MSL. Rising terrain 9'  
from DER, 65' right of centerline, up to 1029' MSL.  
Terrain beginning 82' from DER, 60' left of centerline,  
up to 1029' MSL.

## MARSHALL, MN

SOUTHWEST MINNESOTA RGNL MARSHALL/  
RYAN FIELD (MML)  
AMDT 2 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 20**, Std. w/ min. climb of  
270' per NM to 2000, or 1000-3 for climb in visual  
conditions.

DEPARTURE PROCEDURE: **Rwy 20**, for climb in  
visual conditions, cross Marshall Airport at or above  
2000 MSL before proceeding on course.

NOTE: **Rwy 12**, Pole 706' from departure end of runway,  
671' right of centerline, 60' AGL/1212' MSL, pole 1580'  
from departure end of runway, 732' left of centerline, 70'  
AGL/1225' MSL, antenna 1496' from departure end of  
runway, 620' right of centerline, 64' AGL/1219' MSL,  
pole 1185' from departure end of runway, 540' right of  
centerline, 55' AGL/1210' MSL, tree 3564' from  
departure end of runway, 400' right of centerline, 110'  
AGL/1269' MSL, tree 2135' from departure end of  
runway, 113' left of centerline, 77' AGL/1232' MSL. **Rwy  
30**, Vehicle on road 1' from departure end of runway,  
435' left of centerline, 24' AGL/1200' MSL.

## MILBANK, SD

MILBANK MUNI (1D1)  
ORIG 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 25**, Std. w/ a min. climb of  
207' per NM to 1900, or 900-2½ for climb in visual  
conditions.

DEPARTURE PROCEDURE: **Rwy 25**, For climb in  
visual conditions cross Milbank Muni airport at or above  
1900 before proceeding on course.

NOTE: **Rwy 7**, trees beginning 1207' from departure end  
of runway, 387' left of centerline, up to 100' AGL/1219'  
MSL. Vehicle on road 829' from departure end of  
runway, 373' right of centerline, 15' AGL/1134' MSL.  
Building 322' from departure end of runway, 582' right of  
centerline, 25' AGL/1134' MSL. **Rwy 13**, trees  
beginning 1448' from departure end of runway, 394'  
right of centerline, up to 100' AGL/1219' MSL. Vehicle  
on road 218' from departure end of runway, 490' left of  
centerline, 15' AGL/1134' MSL. Building 78' from  
departure end of runway, 397' left of centerline, 25' AGL/  
1134' MSL. **Rwy 25**, tree 3584' from departure end of  
runway, 477' left of centerline, 100' AGL/1249' MSL.  
**Rwy 31**, tree 2992' from departure end of runway, 715'  
left of centerline, 100' AGL/1239' MSL.

## MILLER, SD

MILLER MUNI (MKA)  
ORIG 08269 (FAA)

NOTE: **Rwy 15**, vehicle on road 769' from departure end  
of runway, 642' right of centerline, 15' AGL/1599' MSL.  
Snow removal equipment 206' from departure end of  
runway, 475' right of centerline, 21' AGL/1594' MSL.  
Tree 3903' from departure end of runway, 998' left of  
centerline, 100' AGL/1684' MSL. **Rwy 33**, vehicle on  
road 450' from departure end of runway, 560' left of  
centerline, 15' AGL/1584' MSL. Tree 762' from  
departure end of runway, 628' left of centerline, 100'  
AGL/1669' MSL.

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# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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## MINNEAPOLIS, MN

ANOKA COUNTY-BLAINE AIRPORT  
(JANES FIELD) (ANE)

AMDT 4 07018 (FAA)

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 089° to 2600 before turning right. **Rwy 18**, climb heading 179° to 2600 before turning left. **Rwy 27**, climb heading 269° to 1800 before proceeding southeast bound. **Rwy 36**, climb heading 359° to 1800 before proceeding southeast bound.

NOTE: **Rwy 9**, multiple trees 821' from departure end of runway, 619' right of centerline, up to 51' AGL/961' MSL. Tank 1.1 NM from departure end of runway, 1280' right of centerline, 170' AGL/1082' MSL. **Rwy 27**, multiple trees 559' from departure end of runway, 404' left of centerline, up to 50' AGL/946' MSL. Multiple trees 480' from departure end of runway, 394' right of centerline, up to 26' AGL/922' MSL. **Rwy 36**, multiple trees 191' from departure end of runway, 495' right of centerline, up to 78' AGL/971' MSL. Multiple trees 1458' from departure end of runway, 53' left of centerline, up to 59' AGL/958' MSL.

## CRYSTAL (MIC)

AMDT 2 81050 (FAA)

TAKE-OFF MINIMUMS: **Rwys 14L, 14R, 32L, 32R**, 300-1. **Rwys 24L, 24R**, 300-1 or std. with a min. climb of 215' per NM to 1000. **Rwys 6L, 6R**, 300-1 or std. with a min. climb of 285' per NM to 1000.

DEPARTURE PROCEDURE: **Rwys 6L, 6R, 14L, 14R**, eastbound departures (050°-130°) climb runway heading to 2800 before turning.

## FLYING CLOUD (FCM)

AMDT 4 08157 (FAA)

NOTE: **Rwy 10L**, multiple antenna's on hangar's beginning 270' from departure end of runway, 330' left of centerline, up to 26' AGL/932' MSL. Tree 682' from departure end of runway, 668' right of centerline, 26' AGL/932' MSL. **Rwy 10R**, multiple obstruction light on poles beginning 287' from departure end of runway, 345' right of centerline, up to 36' AGL/939' MSL. Hangar 150' from departure end of runway, 422' right of centerline, 21' AGL/920' MSL. Antenna on building, 536' from departure end of runway, 263' right of centerline, 14' AGL/913' MSL. **Rwy 18**, multiple trees beginning 338' from departure end of runway, 166' left of centerline, up to 62' AGL/961' MSL. Obstruction light on fence 176' from departure end of runway, 127' left of centerline, 10' AGL/910' MSL. Vehicle and road 198' from departure end of runway, 196' left of centerline, 15' AGL/918' MSL. Floodlight 148' from departure end of runway, 374' right of centerline, 38' AGL/938' MSL. Obstruction light on hangar 282' from departure end of runway, 317' right of centerline, 37' AGL/937' MSL. **Rwy 28R**, Hangar 259' from departure end of runway, 355' right of centerline, 18' AGL/931' MSL. **Rwy 36**, wind vane 923' from departure end of runway, 404' left of centerline, 61' AGL/960' MSL. Vent on building 943' from departure end of runway, 295' left of centerline, 44' AGL/943' MSL. Pole 714' from departure end of runway, 351' left of centerline, 33' AGL/932' MSL. Multiple trees beginning 504' from departure end of runway, 324' right of centerline, up to 67' AGL/966' MSL.

MINNEAPOLIS-ST. PAUL INTL  
(WOLD CHAMBERLAIN) (MSP)

AMDT 11 07130 (FAA)

TAKEOFF MINIMUMS: **Rwy 35**, std. with a min. climb of 219' per NM to 2100.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 043° to 2100 before turning left. **Rwy 30L**, climb heading 299° to 2100 before turning right. **Rwy 30R**, climb heading 299° to 2100 before turning right. **Rwy 35**, climb via heading 348° to 2100 before turning left.

NOTE: **Rwy 4**, multiple trees beginning 800' from departure end of runway, 264' left of centerline, up to 75' AGL/921' MSL. Rod on building 2528' from departure end of runway, 1175' left of centerline, 78' AGL/922' MSL. Fence 803' from departure end of runway, 585' left of centerline, 15' AGL/860' MSL. Antenna on OL building 456' from departure end of runway, 319' left of centerline, 13' AGL/850' MSL. Light poles 1932' from departure end of runway, 718' left of centerline, 45' AGL/885' MSL. Stack 4535' from departure end of runway, 481' left of centerline, 139' AGL/949' MSL. **Rwy 12R**, multiple trees beginning 1477' from departure end of runway, 407' left of centerline, up to 86' AGL/851' MSL. Multiple trees beginning 1426' from departure end of runway, 124' right of centerline, up to 111' AGL/847' MSL. Light pole 1408' from departure end of runway, 746' right of centerline, 85' AGL/843' MSL. Radar RFLTR 983' from departure end of runway, 32' left of centerline, 15' AGL/829' MSL. Pipe on building, 826' from departure end of runway, 576' left of centerline, 10' AGL/825' MSL. Obstruction light on localizer 766' from departure end of runway, on centerline, 7' AGL/821' MSL. **Rwy 17**, antenna 1272' from departure end of runway, 562' right of centerline, 57' AGL/891' MSL. Pole 409' from departure end of runway, 530' right of centerline, 29' AGL/866' MSL. WDI on building 2619' from departure end of runway, 881' left of centerline, 97' AGL/918' MSL. Building 2619' from departure end of runway, 859' left of centerline, 84' AGL/905' MSL. Light 1176' from departure end of runway, 291' right of centerline, 11' AGL/875' MSL. Tree 2619' from departure end of runway, on centerline, 79' AGL/900' MSL. **Rwy 22**, tree 2906' from departure end of runway, 833' right of centerline, 94' AGL/934' MSL. Hopper 1717' from departure end of runway, 456' left of centerline, 48' AGL/888' MSL. **Rwy 30L**, multiple trees beginning 1113' from departure end of runway, 701' left of centerline, up to 80' AGL/919' MSL. Tree 1230' from departure end of runway, 633' right of centerline, 30' AGL/877' MSL. Ground 28' from departure end of runway, 490' right of centerline, 0' AGL/844' MSL. **Rwy 30R**, building 1056' from departure end of runway, 198' left of centerline, 13' AGL/853' MSL. Multiple trees beginning 3010' from departure end of runway, 334' left of centerline, up to 94' AGL/940' MSL. Light pole 1849' from departure end of runway, 698' right of centerline, 17' AGL/871' MSL. Fence 1327' from departure end of runway, 667' right of centerline, 8' AGL/857' MSL. Tree 3703' from departure end of runway, 350' right of centerline, 67' AGL/914' MSL. Rod on pole 3143' from departure end of runway, 47' right of centerline, 38' AGL/898' MSL. **Rwy 35**, tree 175' from departure end of runway, 398' right of centerline, 73' AGL/883' MSL. Multiple trees beginning 1989' from departure end of runway, 351' left of centerline, up to 65' AGL/902' MSL. Multiple buildings beginning 5.45 NM from departure end of runway, 1787' left of centerline, up to 811' AGL/1743' MSL.

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## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES





**MINOT, ND**

MINOT INTL (MOT)  
AMDT 3 06103 (FAA)

TAKE-OFF MINIMUMS: **Rwy 26**, 300-1½ or std. with a min. climb of 219' per NM to 2000.

DEPARTURE PROCEDURE: **Rwy 13**, climb via heading 128° to 2200 before turning right. **Rwy 26**, climb via heading 260° to 2300 before turning left.

NOTE: Tree 1829' from departure end of runway, 292' left of centerline, 56' AGL/1714' MSL. Tree 1459' from departure end of runway, 528' left of centerline, 47' AGL/1705' MSL. **Rwy 26**, tree 1750' from departure end of runway, 618' right of centerline, 71' AGL/1786' MSL. Tree 1829' from departure end of runway, 376' left of centerline, 65' AGL/1780' MSL. Light pole 1110' from departure end of runway, 610' left of centerline, 44' AGL/1759' MSL. Tank 1.1 NM from departure end of runway, 1810' right of centerline, 184' AGL/1899' MSL. Tree 1782' from departure end of runway, 273' right of centerline, 49' AGL/1764' MSL. Light pole 1294' from departure end of runway, 452' right of centerline, 29' AGL/1751' MSL. Tree 2019' from departure end of runway, 393' right of centerline, 54' AGL/1769' MSL. Building 1431' from departure end of runway, 301' right of centerline, 38' AGL/1753' MSL. Light pole 1418' from departure end of runway, 23' right of centerline, 36' AGL/1751' MSL.

**MITCHELL, SD**

MITCHELL MUNI (MHE)  
AMDT 1 86240 (FAA)

DEPARTURE PROCEDURE: **Rwys 12, 17**, climb to 1800 before turning.

**MOBRIDGE, SD**

MOBRIDGE MUNI(MBG)  
ORIG 88154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 35**, 300-1.  
DEPARTURE PROCEDURE: **Rwys 12, 17, 30, 35**, climb runway heading to 2500 before turning on course.

**MONTEVIDEO, MN**

MONTEVIDEO-CHIPPEWA COUNTY (MVE)  
TAKE-OFF MINIMUMS: **Rwy 21**, 400-1½.  
DEPARTURE PROCEDURE: **Rwy 14**, climb runway heading to 1500 before turning.

**MOOSE LAKE, MN**

MOOSE LAKE CARLTON COUNTY (MZH)  
ORIG 94006 (FAA)  
TAKE-OFF MINIMUMS: **Rwys 4, 22**, 300-1.

**MORRIS, MN**

MORRIS MUNI-CHARLIE SCHMIDT FLD (MOX)  
ORIG 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 22**, NA-Environmental.  
NOTE: **Rwy 32**, Trees 2888' from departure end of runway, 1125' left of centerline, 100' AGL/1209' MSL.

**OAKES, ND**

OAKES MUNI (2D5)  
ORIG 97142 (FAA)

TAKE-OFF MINIMUMS: **Rwy 30**, 300-1 or std. with a min. climb of 260' per NM to 1700.

**OLIVIA, MN**

OLIVIA RGNL (OVL)  
AMDT 1 86044 (FAA)

TAKE-OFF MINIMUMS: **Rwy 11**, 300-1.

**ORR, MN**

ORR RGNL (ORB)  
AMDT 1 80136 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, 500-2 or std. with a min. climb of 260' per NM to 1900.

**ORTONVILLE, MN**

ORTONVILLE MUNI-MARTINSON FIELD (VVV)  
ORIG 81274 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, 300-1 or std. with a min. climb of 210' per NM to 1300.

**OWATONNA, MN**

OWATONNA DEGNER RGNL (OWA)  
AMDT 2 97030 (FAA)

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading to 1500 before turning on course.

**PEMBINA, ND**

PEMBINA MUNI (PMB)  
ORIG 85325 (FAA)

DEPARTURE PROCEDURE: **Rwy 33**, climb runway heading 3200 before turning left.

**PERHAM, MN**

PERHAM MUNI (16D)  
ORIG 98113 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, 500-2 or std. with a min. climb of 210' per NM to 2000. **Rwy 30**, 400-1 or std. with a min. climb of 270' per NM to 1800.  
DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading to 2000 before proceeding on course. **Rwy 30**, climb runway heading to 1800 before proceeding on course.

**PIERRE, SD**

PIERRE RGNL (PIR)  
AMDT 2 85115 (FAA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1.

**PINE RIDGE, SD**

PINE RIDGE (IEN)  
ORIG 97226 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, 300-1 or std. with a min. climb of 350' per NM to 3600. **Rwy 24**, 300-1 or std. with a min. climb of 220' per NM to 3500. **Rwy 30**, 300-1 or std. with a min. climb of 300' per NM to 3600.

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**PIPESTONE, MN**PIPESTONE MUNI (PQN)  
ORIG 08045 (FAA)TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Environmental.  
NOTE: **Rwy 18**, Trees beginning 3811' from departure  
end of runway, 854' right of centerline, up to 100' AGL/  
1859' MSL.**PRESTON, MN**FILLMORE COUNTY (FKA)  
ORIG 98113 (FAA)TAKE-OFF MINIMUMS: **Rwys 11,29**, 300-1.**PRINCETON, MN**PRINCETON MUNI (PNM)  
AMDT 1 05132 (FAA)NOTE: **Rwy 15**, trees 982' from departure end of runway,  
335' right of centerline, 50' AGL/1029' MSL. Trees  
1449' from departure end of runway, 387' left of  
centerline, 50' AGL/1029' MSL. **Rwy 33**, barn 1159' from  
departure end of runway, 780' right of centerline, 50'  
AGL/1139' MSL, multiple trees, terrain, and road  
beginning 36' from departure end of runway, 84' right of  
centerline, up to 50' AGL/1045' MSL.**RAPID CITY, SD**RAPID CITY RGNL (RAP)  
AMDT 6 07130 (FAA)DEPARTURE PROCEDURE: **Rwy 5**, climb on heading  
between 255° clockwise to 210° from departure end of  
runway, or min. climb of 240' per NM to 8800 for all other  
courses. **Rwy 14**, climb on heading between 325°  
clockwise to 210° from departure end of runway, or min.  
climb of 245' per NM to 8900 for all other courses. **Rwy**  
**23**, climb on heading between 210° counter clockwise to  
055° from departure end of runway, or min. climb of 268'  
per NM to 8900 for all other courses. **Rwy 32**, climb on  
heading between 255° clockwise to 140° from departure  
end of runway, or min. climb of 242' per NM to 8800 for  
all other courses.NOTE: **Rwy 5**, fence 133' from departure end of runway,  
249' left of centerline, 10' AGL/3215' MSL. **Rwy 23**,  
hangar 201' from departure end of runway, 299' left of  
centerline, 24' AGL/3193' MSL. Fence 334' from  
departure end of runway, 256' right of centerline, 10'  
AGL/3184' MSL. **Rwy 32**, obstruction light 662' from  
departure end of runway, 243' left of centerline, 54' AGL/  
3213' MSL. Fence 1002' from departure end of runway,  
751' right of centerline, 10' AGL/3233' MSL. Tower 1.9  
NM from departure end of runway, 3503' right of  
centerline, 152' AGL/3520' MSL.**RAY S. MILLER AAF (KRYM)**

CAMP RIPLEY, MN . . . . . AMDT 2, 09155

TAKE-OFF OBSTACLES: **Rwy 13**, Terrain 1270' MSL,  
73' from DER, 8' left and right of centerline. Vehicle 15'  
AGL/1180' MSL, 765' from DER, 638' left of centerline.  
**Rwy 31**, Terrain 1273' MSL, 54' from DER, 9' left and  
right of centerline. Trees 64' AGL/1282' MSL, 798' from  
DER, 325' left and right of centerline.**RED WING, MN**RED WING RGNL (RGK)  
AMDT 1 01137 (FAA)DEPARTURE PROCEDURE: **Rwy 9**, 700-4 or std. with  
a min. climb of 270' per NM to 1700.**REDWOOD FALLS, MN**REDWOOD FALLS MUNI (RWF)  
ORIG 09071 (FAA)TAKE-OFF MINIMUMS: **Rwys 5,23**, NA-Environmental.  
NOTE: **Rwy 12**, numerous buildings beginning 388' from  
DER, 376' right of centerline, up to 13' AGL/1052' MSL.  
Numerous fences beginning 6' from DER, 329' right of  
centerline, up to 13' AGL/1052' MSL. Tree 62' from DER,  
444' left of centerline, 11' AGL/1040' MSL. **Rwy 30**,  
multiple trees beginning 865' from DER, 401' right of  
centerline, up to 100' AGL/1119' MSL. Vehicle on road  
128' from DER, 306' right of centerline, 15' AGL/1027'  
MSL.**ROCHESTER, MN**ROCHESTER INTL (RST)  
ORIG 09015 (FAA)NOTE: **Rwy 2**, road 73' from departure end of runway,  
385' right of centerline, 10' AGL/1292' MSL. Tree 4377'  
from departure end of runway, 1132' right of centerline,  
100' AGL/1399' MSL. Road 268' from departure end of  
runway, 366' right of centerline, 10' AGL/1290' MSL.  
**Rwy 13**, tree 1498' from departure end of runway, 840'  
right of centerline, 44' AGL/1348' MSL. **Rwy 20**, pole  
259' from departure end of runway, 407' right of  
centerline, 23' AGL/1338' MSL. Roads beginning 1' from  
departure end of runway, 231' right of centerline, up to  
10' AGL/1327' MSL. **Rwy 31**, tree 4760' from departure  
end of runway, 1103' left of centerline, 100' AGL/1389'  
MSL.**ROSEAU, MN**ROSEAU MUNI-RUDY BILLBERG FIELD (ROX)  
ORIG 07242 (FAA)NOTE: **Rwy 16**, building 258' from departure end of  
runway, 505' right of centerline, 24' AGL/1078' MSL.  
Tree 1582' from departure end of runway, 337' left of  
centerline, 47' AGL/1101' MSL. **Rwy 34**, truck on road  
41' from departure end of runway, 511' left of centerline,  
15' AGL/1069' MSL.**RUSHFORD, MN**RUSHFORD MUNI (55Y)  
AMDT 1 96228 (FAA)TAKE-OFF MINIMUMS: **Rwy 34**, 300-1 or std. with a  
min. climb of 300' per NM to 1500.  
DEPARTURE PROCEDURE: **Rwy 16**, climb runway  
heading to 1700 before turning eastbound.

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## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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**ST. CLOUD, MN**

ST. CLOUD RGNL (STC)

ORIG 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1¼ or std. w/ min. climb of 201' per NM to 1300 or alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1100' prior to DER.

NOTE: **Rwy 5**, tower 6201' from DER, 1416' left of centerline, 149' AGL/1179' MSL. Multiple trees beginning 17' from DER, 373' right of centerline, up to 59' AGL/1081' MSL. Multiple trees beginning 1752' from DER, 56' left of centerline, up to 80' AGL/1102' MSL. **Rwy 13**, tree 1654' from DER, 884' right of centerline, 61' AGL/1078' MSL. Tree 1265' from DER, 794' left of centerline, 42' AGL/1059' MSL. **Rwy 23**, trees 2109' from DER, 29' right of centerline, up to 61' AGL/1082' MSL. Trees 1725' from DER, 93' left of centerline, up to 55' AGL/1076' MSL. Fence 74' from DER, 216' left of centerline, 2' AGL, 1023' MSL. **Rwy 31**, terrain beginning 29' from DER, 50' right of centerline, up to 1083' MSL. Terrain beginning 107' from DER, 7' left of centerline, up to 1060' MSL.

**ST. JAMES, MN**

ST. JAMES MUNI (JYG)

ORIG 94342 (FAA)

DEPARTURE PROCEDURE: **Rwy 15**, climb to 1900 before turning eastbound.

**ST. PAUL MN**

LAKE ELMO (21D)

ORIG 80318 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, 300-1 or std. with a min. climb of 225' per NM to 1100.

ST. PAUL DOWNTOWN HOLMAN FIELD (STP)

AMDT 7 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, std. w/ min. climb of 346' per NM to 1500. **Rwy 13**, std. w/ min. climb of 266' per NM to 1500. **Rwy 14**, std. w/ min. climb of 216' per NM to 1500. **Rwy 27**, std. w/ min. climb of 436' per NM to 1500. **Rwy 31**, NA - obstacles. **Rwy 32**, std. w/ min. climb of 340' per NM to 3000.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 088° to 1500 before proceeding on course. **Rwy 13**, climb heading 125° to 1500 before proceeding on course. **Rwy 14**, climb heading 143° to 1500 before proceeding on course. **Rwy 27**, climb heading 268° to 1700 before proceeding on course. **Rwy 32**, climb heading 323° to 1300 before proceeding on course.

NOTE: **Rwy 9**, multiple trees beginning 1265' from departure end of runway, 167' right of centerline, up to 75' AGL/1055' MSL. Multiple trees beginning 1.1 NM from departure end of runway, 124' left of centerline, up to 100' AGL/1099' MSL. Obstruction light tank 1571' from departure end of runway, 771' right of centerline, 50' AGL/811' MSL. Mobile crane 1163' from departure end of runway, 123' left of centerline, 50' AGL/758' MSL. **Rwy 13**, Obstruction light stack 2695' from departure end of runway, 842' right of centerline, 50' AGL/820' MSL. Tree 1563' from departure end of runway, 25' right of centerline, 61' AGL/748' MSL. Multiple trees beginning 1004' from departure end of runway, 607' left of centerline, 50' AGL/767' MSL. Tower 1,725' from

ST. PAUL DOWNTOWN HOLMAN FIELD

(STP) (CON'T)

departure end of runway, 930' left of centerline, 47' AGL/753' MSL. Vent on building 3029' from departure end of runway, 629' right of centerline, 10' AGL/783' MSL. Multiple bushes beginning 194' from departure end of runway 88' left of centerline, 7' AGL/712' MSL. Stack 1,879' from departure end of runway, 25' left of centerline, 51' AGL/751' MSL. **Rwy 14**, multiple trees beginning 805' from departure end of runway, 2' right of centerline, up to 112' AGL/811' MSL. Multiple trees beginning 1205' from departure end of runway, 64' left of centerline, up to 80' AGL/770' MSL. Poles 2810' from departure end of runway 715' right of centerline, 91' AGL/778' MSL. **Rwy 27**, multiple trees beginning 803' from departure end of runway, 122' left of centerline, up to 100' AGL/994' MSL. Tree 783' from departure end of runway, 105' right of centerline, 25' AGL/725' MSL. Obstruction light antenna 996' from departure end of runway, 304' right of centerline, 67' AGL/767' MSL. Light pole 1328' from departure end of runway, 222' left of centerline, 50' AGL/747' MSL. Building 2049' from departure end of runway, 833' right of centerline, 57' AGL/761' MSL. Flagpole 2337' from departure end of runway, 199' left of centerline, 78' AGL/778' MSL. Stack 1.8 NM from departure end of runway, 635' left of centerline, 569' AGL/1279' MSL.

**Rwy 32**, road and vehicle 211' from departure end of runway, 482' left of centerline, 17' AGL/717' MSL. Railroad beginning 369' from departure end of runway, 329' left of centerline, up to 23' AGL/727' MSL. Pipe on DME 383' from departure end of runway, 269' right of centerline, 17' AGL/722' MSL. Tree 1152' from departure end of runway, 209' left of centerline, 44' AGL/744' MSL. Tree 1685' from departure end of runway, 277' right of centerline, 75' AGL/770' MSL. Sign 5668' from departure end of runway, 1924' left of centerline, 86' AGL/874' MSL. Trees 5614' from departure end of runway, 1796' right of centerline, 100' AGL/939' MSL. Building 5779' from departure end of runway, 1733' right of centerline, 72' AGL/910' MSL. Pole 1.0 NM from departure end of runway, 1835' right of centerline, 157' AGL/973' MSL. Building 1.1 NM from departure end of runway, 2170' left of centerline, 122' AGL/886' MSL. Multiple buildings beginning 1.1 NM from departure end of runway, 378' left of centerline, up to 142' AGL/918' MSL.

**SILVER BAY, MN**

SILVER BAY MUNI (BFW)

ORIG 93035 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7, 25**, 300-1.

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## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES





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**SIoux FALLS, SD**

JOE FOSS FIELD (FSD)  
AMDT 7 07242 (FAA)

TAKE-OFF MINIMUMS: **Rwy 15**, 200-1 or std. w/ min. climb of 404' per NM to 1700. **Rwy 33**, 200-1¼ or std. w/ min. climb of 343' per NM to 1700.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 030° to 2300 before turning eastbound. **Rwy 9**, climb heading 098° to 2000, then left turn direct FSD VORTAC. **Rwy 15**, climb heading 150° to 2000, then right turn direct FSD VORTAC. **Rwy 21**, climb heading 210° to 2200 before turning eastbound. **Rwy 27**, climb heading 278° to 2100 before turning eastbound. **Rwy 33**, climb heading 330° to 2200 before turning eastbound.

NOTE: **Rwy 9**, antenna 2238' from departure end of runway, 919' right of centerline, 87' AGL/1506' MSL. Pole 1256' from departure end of runway, 23' left of centerline, 43' AGL/1464' MSL. Windsock 331' from departure end of runway, 582' right of centerline, 14' AGL/1433' MSL. **Rwy 15**, antenna 3056' from departure end of runway, 983' left of centerline 117' AGL/1576' MSL. Multiple trees beginning 1211' from departure end of runway, 471' left of centerline, up to 38' AGL/1477' MSL. Tower 3102' from departure end of runway, 972' left of centerline, 61' AGL/1520' MSL. Trees and pole beginning 1746' from departure end of runway, 316' right of centerline, up to 87' AGL/1516' MSL. **Rwy 21**, multiple trees beginning 428' from departure end of runway, 522' right of centerline, up to 75' AGL/1497' MSL. **Rwy 27**, multiple trees beginning 2528' from departure end of runway, 1027' left of centerline, up to 100' AGL/1509' MSL. **Rwy 33**, 2 lighted radio towers 3639' from departure end of runway, 894' left of centerline, 88' AGL/1585' MSL, multiple trees beginning 5370' from departure end of runway, 891' left of centerline, up to 175' AGL/1603' MSL, pole 5724' from departure end of runway, 1701' left of centerline, 45' AGL/1594' MSL.

**SPEARFISH, SD**

BLACK HILLS-CLYDE ICE FIELD (SPF)

TAKE-OFF MINIMUMS: **Rwys 3, 8, 21, 35**, 700-2 (NA at night). **Rwy 13**, 900-2 or std. with a min. climb of 300' per NM to 5400. **Rwy 17**, NA. **Rwys 26, 31**, 700-2 or std. with a min. climb of 370' per NM to 4700.

DEPARTURE PROCEDURE: **Rwys 3, 8**, turn left. Climb to 6500, intercept the 046° bearing outbound from SPF NDB. Thence... **Rwy 13**, climb runway heading to 4300, then climbing left turn to 6500 via heading 360° to intercept the 046° bearing outbound from SPF NDB. Thence... **Rwys 21, 35**, turn right. Climb to 6500 intercept the 046° bearing outbound from SPF NDB. Thence... **Rwy 26**, climbing right turn to 6500 via heading 330°. Intercept the 297° bearing outbound from SPF NDB. Thence... **Rwy 31**, after take-off, intercept 297° bearing outbound from SPF NDB. Climb to 6500. Thence... THENCE... Continue climb to enroute MEA's before proceeding on course.

**STAPLES, MN**

STAPLES MUNI (SAZ)  
AMDT 2 87211 (FAA)

TAKE-OFF MINIMUMS: **Rwy 14**, 400-2.

**STURGIS, SD**

STURGIS MUNI (49B)  
ORIG 96284 (FAA)

DEPARTURE PROCEDURE: **Rwy 11**, climb runway heading to 6000, then direct RAP VORTAC. **Rwy 29**, climb runway heading to 5000, then climbing right turn to 6000 direct RAP VORTAC.

**THIEF RIVER FALLS, MN**

THIEF RIVER FALLS RGNL (TVF)  
ORIG 09071 (FAA)

NOTE: **Rwy 3**, trees beginning 3058' from DER, 678' right of centerline, up to 100' AGL/1229' MSL. **Rwy 13**, trees beginning 565' from DER, 372' left of centerline, up to 100' AGL/1214' MSL. Trees beginning 1337' from DER, 531' right of centerline, up to 100' AGL/1209' MSL. **Rwy 21**, trees beginning 214' from DER, 544' right of centerline, up to 100' AGL/1204' MSL. Trees beginning 2185' from DER, 33' left of centerline, up to 100' AGL/1209' MSL. **Rwy 31**, trees beginning 126' from DER, 410' right of centerline, up to 100' AGL/1214' MSL. Trees beginning 199' from DER, 413' left of centerline, up to 100' AGL/1209' MSL. Trees beginning 1204' from DER, 449' right of centerline, up to 100' AGL/1199' MSL. Trees beginning 1579' from DER, 495' left of centerline, up to 100' AGL/1214' MSL.

**TIOGA, ND**

TIOGA MUNI (D60)  
ORIG 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-Environmental.

NOTE: **Rwy 12**, vehicle on road 1243' from DER, 78' left of centerline, 15' AGL/2304' MSL. Vehicle on road, tree and pole beginning 618' from DER, 50' right of centerline, up to 100' AGL/2419' MSL. Ground 21' from DER, 481' right of centerline, 2272' MSL. **Rwy 30**, vehicle on road 1' from DER, 144' left of centerline, 15' AGL/2256' MSL.

**TOWER, MN**

TOWER MUNI (12D)  
ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, NA-Obstacles. NOTE: **Rwy 26**, tree 2315' from DER, 700' right of centerline, 100' AGL/1479' MSL.

**VERMILLION, SD**

HAROLD DAVIDSON FIELD (VMR)  
AMDT 1 09239 (FAA)

NOTE: **Rwy 12**, road 1' from DER, 200' right of centerline, up to 15' AGL/1156' MSL. Multiple trees beginning 541' from DER, 366' right of centerline, up to 62' AGL/1202' MSL. **Rwy 30**, road 79' from DER 342' left of centerline 15' AGL/1155' MSL. Road 200' from DER, 450' right of centerline, 15' AGL/1160' MSL. Fence 199' from DER, 347' left of centerline, 6' AGL/1150' MSL.

**WAHPETON, ND**

HARRY STERN (BWP)  
ORIG 93259 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 300-1.

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**WARREN, MN**

WARREN MUNI (D37)  
 ORIG 02108 (FAA)  
 DEPARTURE PROCEDURE: **Rwy 30**, climb  
 runway heading to 1400 before turning on course.

**WARROAD, MN**

WARROAD INTL MEMORIAL (RRT)  
 ORIG 08101 (FAA)  
 TAKE-OFF MINIMUMS: **Rwys 4, 22**, NA-  
 Environmental.

**WASECA, MN**

WASECA MUNI (ACQ)  
 ORIG 09015 (FAA)  
 NOTE: **Rwy 15**, tree 560' from departure end of  
 runway, 560' right of centerline, 100' AGL/1239'  
 MSL. Terrain beginning 172' from departure end of  
 runway, on centerline, up to 1149' MSL. **Rwy 33**,  
 tree 5042' from departure end of runway, 1533' right  
 of centerline, 100' AGL/1259' MSL.

**WATERTOWN, SD**

WATERTOWN RGNL (ATY)  
 ORIG 07242 (FAA)  
 NOTE: **Rwy 12**, tree 2015' from departure end of  
 runway, 328' right of centerline, 100' AGL/1783'  
 MSL. **Rwy 30**, trees 2149' from departure end of  
 runway, 10' right of centerline, 51' AGL/1810' MSL.  
 Tree 2200' from departure end of runway, 441' left of  
 centerline, 70' AGL/1810' MSL. Tree 2082' from  
 departure end of runway, 121' right of centerline, 55'  
 AGL/1806' MSL.

**WATFORD CITY, ND**

WATFORD CITY MUNI (S25)  
 ORIG 98225 (FAA)  
 TAKE-OFF MINIMUMS: **Rwy 30**, 400-1 or std. with  
 a min. climb of 340' per NM to 2600. **Rwy 12**, 300-1  
 or std. with a min climb of 300' per NM to 2600.

**WHEATON, MN**

WHEATON MUNI (ETH)  
 AMDT 1 92177 (FAA)  
 TAKE-OFF MINIMUMS: **Rwy 16**, 300-1. **Rwys 4**,  
 22, NA.

**WILLISTON, ND**

SLOULIN FIELD INTL (ISN)  
 AMDT 3 00251 (FAA)  
 TAKE-OFF MINIMUMS: **Rwy 29**, 300-1 or std. with a  
 min. climb of 270' per NM to 2300.  
 DEPARTURE PROCEDURE: **Rwy 20**, climb runway  
 heading to 2300 before turning westbound.

**WILLMAR, MN**

WILLMAR MUNI-JOHN L. RICE FIELD  
 (BDH)  
 ORIG 06327 (FAA)  
 NOTE: **Rwy 31**, tree 1338' from departure end of  
 runway, 740' left of centerline, 67' AGL/1193'  
 MSL.

**WINNER, SD**

WINNER RGNL (ICR)  
 AMDT 3 09127 (FAA)  
 TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-  
 Environmental.

**WINONA, MN**

WINONA MUNI-MAX CONRAD FIELD  
 (ONA)  
 AMDT 3 96228 (FAA)  
 TAKE-OFF MINIMUMS: **Rwy 12**, 300-1 or std.  
 with a min. climb of 320' per NM to 800. **Rwy 17**,  
 600-1 or std. with a min. climb of 500' per NM to  
 1300. **Rwy 30**, 500-1 or std. with a min. climb of  
 500' per NM to 1200. **Rwy 35**, 700-1 or std. with  
 a min. climb of 390' per NM to 1500.  
 DEPARTURE PROCEDURE: **Rwy 12**, climb to  
 1900 via ONA R-110 before turning. **Rwys 17**,  
**30, 35**, climb runway heading to 1900 before  
 turning.

**WORTHINGTON, MN**

WORTHINGTON MUNI (OTG)  
 AMDT 2 88154 (FAA)  
 TAKE-OFF MINIMUMS: **Rwy 17**, 300-1.  
 DEPARTURE PROCEDURE: **Rwys 11, 17, 29**,  
**35**, when weather is below 800-1 climb runway  
 heading to 2400 before turning.

**YANKTON, SD**

CHAN GURNEY MUNI (YKN)  
 AMDT 2 85003 (FAA)  
 TAKE-OFF MINIMUMS: **Rwy 31**, 300-1.  
 DEPARTURE PROCEDURE: **Rwys 1, 13, 19**,  
**31**, climb runway heading to 2400 before  
 turning.

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**TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**
