

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

ABILENE, TX

ABILENE RGNL (ABI)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, 300-2½ or std. w/ min. climb of 233' per NM to 2200.

DEPARTURE PROCEDURE: **Rwy 17L**, climb heading 180° to 3200 before proceeding on course.

NOTE: **Rwy 4**, multiple trees beginning 1945' from departure end of runway, 872' left of centerline, up to 100' AGL/1859' MSL. Terrain 103' from departure end of runway, 59' right of centerline up to 0' AGL/1766' MSL. Terrain 121' from departure end of runway, 457' right of centerline, up to 0' AGL/1769' MSL. **Rwy 17L**, tower 7 NM from departure end of runway, right of centerline up to 543' AGL/2903' MSL. Tower 6 NM from departure end of runway, right of centerline up to 400' AGL/2699' MSL. Tower 7.7 NM from departure end of runway, left of centerline, up to 749' AGL/2957' MSL. Multiple trees beginning 151' from departure end of runway, 158' left of centerline, up to 100' AGL/1879' MSL. Multiple trees beginning 149' from departure end of runway, 355' right of centerline, up to 100' AGL/1879' MSL. **Rwy 22**, tower 1.9 NM from departure end of runway, 284' left of centerline, up to 306' AGL/2050' MSL. Multiple trees beginning 119' from departure end of runway, 402' left of centerline up to 17' AGL/1769' MSL, tower 4018' from departure end of runway, 225' right of centerline, up to 135' AGL/1869' MSL. Antenna on tower 1.9 NM from departure end of runway, 252' left of centerline, up to 306' AGL/2050' MSL.

NAME TAKE-OFF MINIMUMS

ABILENE RGNL (ABI) (CON'T)

Rwy 35L, tower 194' from departure end of runway, 516' right of centerline 100' AGL/1769' MSL. Multiple trees beginning 2047' from departure end of runway, 851' right of centerline, up to 100' AGL/1869' MSL. **Rwy 35R**, antenna 1154' from departure end of runway, 264' left of centerline 100' AGL/1821' MSL. Multiple trees beginning 2047' from departure end of runway, 851' right of centerline, up to 100' AGL/1869' MSL. **Rwy 35R**, antenna 1154' from departure end of runway, 264' left of centerline 100' AGL/1821' MSL. Multiple trees beginning 2848' from departure end of runway, 242' left of centerline up to 100' AGL/1889' MSL. Multiple trees beginning 279' from departure end of runway, 328' right of centerline, up to 100' AGL/1889' MSL. Terrain 231' from departure end of runway, 66' left of centerline, up to 0' AGL/1805' MSL. Terrain 230' from departure end of runway, 190' right of centerline, up to 100' AGL/1805' MSL. **Rwy 17R**, multiple trees beginning 1013' from departure end of runway, 372' left of centerline, up to 100' AGL/1889' MSL. Multiple trees beginning 147' from departure end of runway, 370' right of centerline up to 100' AGL/1879' MSL.

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AMARILLO, TX**RICK HUSBAND AMARILLO INTL**

DEPARTURE PROCEDURE: **Rwy 22**, climb heading 218° to 4100 before turning northbound. **Rwy 31**, climbing right turn heading 360° to 5400 before turning westbound.

NOTE: **Rwy 31**, sign 23' from departure end of runway, 257' right of centerline, 6' AGL/3605' MSL.

TRADEWIND (TDW)**AMDT 2A 08185 (FAA)**

TAKE-OFF MINIMUMS: **Rwys 5,23**, NA. **Rwy 35**, 600-2 or std. with a min. climb of 300' per NM to 4600.

ANDREWS, TX**ANDREWS COUNTY (E11)****AMDT 1 09239 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 20**, 400-2¼ or std. w/ min. climb of 229' per NM to 3700.

DEPARTURE PROCEDURE: **Rwy 11**, climb heading 114° to 3600 before turning left. **Rwy 29**, climb heading 294° to 3600 before turning left.

NOTE: **Rwy 34**, antenna 1189' from DER, 588' left of centerline, 52' AGL/3236' MSL. Poles beginning 181' from DER, 470' left of centerline, up to 36' AGL/3210' MSL. Bush 471' from DER, 92' left of centerline, 7' AGL/3186' MSL. Tree 1207' from DER, 587' left of centerline, 44' AGL/3228' MSL. Bushes beginning 282' from DER, 305' right of centerline, up to 10' AGL/3189' MSL. Tree 4780' from DER, 895' right of centerline, 100' AGL/3304' MSL.

ARLINGTON, TX**ARLINGTON MUNI**

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 162° to 2500 before turning left. **Rwy 34**, climb heading 342° to 1400 before turning southeast bound.

NOTE: **Rwy 16**, multiple reils beginning 77' from departure end of runway, 127' right of centerline, 7' AGL/ 601' MSL. Multiple reils beginning 74' from departure end of runway, 126' left of centerline, 7' AGL/603' MSL. Tree 590' from departure end of runway, 480' right of centerline, 16' AGL/614' MSL. **Rwy 34**, tree 1083' from departure end of runway, 710' right of centerline, 35' AGL/670' MSL. Tree 705' from departure end of runway, 403' left of centerline, 38' AGL/654' MSL. Tree 231' from departure end of runway, 464' left of centerline, 35' AGL/642' MSL. Multiple trees beginning 1093' from departure end of runway, 415' right of centerline, up to 39' AGL/663' MSL.

Chart note: tower farm 7.2 NM southeast of airport up to 2549' MSL.

ATLANTA, TX**HALL-MILLER MUNI**

TAKE-OFF MINIMUMS: **Rwy 15**, 500-2or std. with a min. climb of 260' per NM to 600.

DEPARTURE PROCEDURE: **Rwys 5,33**, climb runway heading to 500 before turning.

NOTE: 248' AGL tower 1.09 NM southeast of departure end of runway 15.

BIG SPRING, TX**BIG SPRING MCMAHON-WRINKLE**

TAKE-OFF MINIMUMS: **Rwy 6**, 600-3 or std. with a min. climb gradient of 370' per NM to 3300.

DEPARTURE PROCEDURE: **Rwy 17**, climb runway heading to 3100 before turning left.

NOTE: **Rwy 6**, cross departure end of runway at or above 35' AGL/2608' MSL. Tank, 7047' from departure end of runway, 2180' left of centerline, 135' AGL/2859' MSL.

BONHAM, TX**JONES FIELD**

TAKE-OFF MINIMUMS: **Rwy 17**, 400-2 or std. with a min. climb of 350' per NM to 1100.

BORGER, TX**HUTCHINSON COUNTY (BGD)****AMDT 1 08157 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 17**, 200-1½ or std. w/ min. climb of 421' per NM to 3400.

NOTE: **Rwy 3**, tree 3200' from departure end of runway, 851' left of centerline, 100' AGL/3129' MSL. **Rwy 17**, pole 683' from departure end of runway, 396' right of centerline, 21' AGL/3090' MSL. Trees beginning 820' from departure end of runway, 279' right of centerline, up to 34' AGL/3093' MSL. Vehicle on road 219' from departure end of runway, 513' right to left of centerline, 15' AGL/3074' MSL. Vehicle on road 1141' from departure end of runway, 772' right to left of centerline, 17' AGL/3086' MSL. Trees beginning 1628' from departure end of runway, 207' left of centerline, up to 43' AGL/3112' MSL. Antenna 1427' from departure end of runway, 15' left of centerline, 46' AGL/3105' MSL. **Rwy 21**, bush 138' from departure end of runway, 109' right of centerline, 31' AGL/3040' MSL.

BOWIE, TX**BOWIE MUNI (0F2)****ORIG 09071 (FAA)**

NOTE: **Rwy 17**, tree 131' from DER, 311' right of centerline, 100' AGL/1169' MSL. Trees beginning 122' from DER, 313' left of centerline, up to 100' AGL/1199' MSL. **Rwy 35**, tree 418' from DER, 299' left of centerline, 100' AGL/1206' MSL. Vehicle on road 726' from DER, 471' left of centerline, 15' AGL/1131' MSL.

BRIDGEPORT, TX**BRIDGEPORT MUNI**

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a min. climb of 340' per NM to 1300.

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BROWNFIELD, TX

TERRY COUNTY (BFE)

ORIG 09295 (FAA)

NOTE: **Rwy 2**, aircraft on taxiway beginning at DER, 188' left of centerline, up to 17' AGL/3281' MSL. Vehicle on roadway, 121' from DER, 519' right of centerline, 15' AGL/3269' MSL. Hangar 591' from DER, 333' left of centerline, 30' AGL/3289' MSL. Tree 950' from DER, 179' right of centerline, 34' AGL/3299' MSL. **Rwy 13**, vehicles on roadway beginning 71' from DER, 61' left of centerline, up to 15' AGL/3269' MSL. **Rwy 20**, tree 2937' from DER, 1108' right of centerline, 75' AGL/3329' MSL. **Rwy 31**, vehicles on roadway beginning at DER, 198' left of centerline, up to 15' AGL/3284' MSL. Aircraft on taxiway beginning at DER, 253' right of centerline, up to 17' AGL/3281' MSL. Vehicles on roadway beginning 299' from DER, 14' right of centerline up to 15' AGL/3284' MSL. Hangar 572' from DER, 597' right of centerline, 30' AGL/3299' MSL. Tree 1832' from DER, 233' right of centerline, 75' AGL/3344' MSL.

CADDO MILLS, TX

CADDO MILLS MUNI

TAKE-OFF MINIMUMS: **Rwys 17L, 35R, NA.****CANADIAN, TX**

HEMPHILL COUNTY

TAKE-OFF MINIMUMS: **Rwy 4**, 300-1¼ or std. with a min. climb of 282' per NM to 2700. **Rwy 18**, std. w/ min. climb of 239' per NM to 3600, or 1400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 18**, for climb in visual conditions cross Hemphill County Airport at or above 3600 before proceeding on course. **Rwy 22**, climb heading 216° to 3000 before turning left.

NOTE: **Rwy 4**, grain elevator 5728' from departure end of runway, 1384' left of centerline, 220' AGL/2580' MSL. Tower 1.1 NM from departure end of runway, 6' right of centerline, 123' AGL/2548' MSL. **Rwy 18**, terrain 361' from departure end of runway, 569' left of centerline, 0' AGL/2409' MSL.

CLEBURNE, TX

CLEBURNE MUNI (CPT)

ORIG 08045 (FAA)

NOTES: **Rwy 15**, Tree 484' from departure end of runway, 211' left of centerline, 100' AGL/959' MSL. Light pole 1329' from departure end of runway, 285' right of centerline, 30' AGL/889' MSL. **Rwy 33**, Trees and light pole beginning 355' from departure end of runway, 45' right of centerline, up to 100' AGL/979' MSL. Trees beginning 1631' from departure end of runway, 94' left of centerline, up to 100' AGL/979' MSL.

COMMERCE, TX

COMMERCE MUNI

TAKE-OFF MINIMUMS: **Rwy 18**, 400-2 or std. with a min. climb 230' per NM to 900.

DALHART, TX

DALHART MUNI

TAKE-OFF MINIMUMS: **Rwy 3**, 600-2 or std. with a min. climb of 250' per NM to 4400.

DALLAS, TX

ADDISON

TAKE-OFF MINIMUMS: **Rwy 15**, 400-2¼ or std. with a min. climb of 324' per NM to 1100.

NOTE: **Rwy 15**, multiple buildings beginning 1085' from departure end of runway, 21' left of centerline, up to 321' AGL/956' MSL. Building with antenna 1.9 NM from departure end of runway, 968' right of centerline, 345' AGL/975' MSL. Pole 666' from departure end of runway, 640' left of centerline, 60' AGL/681' MSL. Multiple trees beginning 721' from departure end of runway, 115' left of centerline, up to 40' AGL/675' MSL. Road, railroad beginning 268' from departure end of runway, 5' right of centerline, up to 23' AGL/655' MSL. **Rwy 33**, multiple poles and trees beginning 640' from departure end of runway, 21' left of centerline, up to 60' AGL/709' MSL. Multiple buildings beginning 1225' from departure end of runway, 147' left of centerline, up to 37' AGL/697' MSL. Multiple buildings beginning 45' from departure end of runway, 458' right of centerline, up to 57' AGL/696' MSL. Multiple poles beginning 922' from departure end of runway, 186' right of centerline, up to 60' AGL/720' MSL.

DALLAS EXECUTIVE

TAKE-OFF MINIMUMS: **Rwy 17**, 400-2¼ or std. w/ min. climb of 275' per NM to 1200.

DEPARTURE PROCEDURE: **Rwy 13**, climb via heading 129° to 2600 before turning westbound. **Rwy 17**, climb via heading 174° to 2600 before turning westbound **Rwy 31**, climb via heading 309° to 1600 before turning southbound. **Rwy 35**, climb via heading 354° to 1600 before turning southbound.

NOTE: **Rwy 17**, tree 468' from departure end of runway, 454' left of centerline, 35' AGL/699' MSL. Tree 113' from departure end of runway, 516' right of centerline, 30' AGL/679' MSL. Tree 871' from departure end of runway, 405' left of centerline, 35' AGL/685' MSL. Tree 651' from departure end of runway, 303' right of centerline, 35' AGL/699' MSL. **Rwy 31**, tree 481' from departure end of runway, 552' right of centerline, 30' AGL/677' MSL. Tree 2978' from departure end of runway, 802' left of centerline, 46' AGL/732' MSL. **Rwy 35**, tree 534' from departure end of runway, 302' left of centerline, 34' AGL/671' MSL. Tree 745' from departure end of runway, 371' left of centerline, 35' AGL/672' MSL. Tree 972' from departure end of runway, 405' right of centerline, 35' AGL/675' MSL. **Rwy 13**, obstruction light on blast fence 109' from departure end of runway, 347' left of centerline, 6' AGL/658' MSL.

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DALLAS, TX (CON'T)

DALLAS-LOVE FIELD

TAKE-OFF MINIMUMS: **Rwy 13L**, std. with a min. climb of 289' per NM to 1700.

DEPARTURE PROCEDURE: **Rwy 13R**, use BACHMAN DEPARTURE. **Rwy 18**, climb via heading 180° to 1300 before turning left. **Rwys 31L, 31R**, climb via heading 310° to 1200 before turning left.

NOTE: **Rwy 13L**, multiple poles and trees beginning 844' from departure end of runway, 515' left of centerline, up to 54' AGL/541' MSL. Crane 5270' from departure end of runway, 568' left of centerline, 130' AGL/630' MSL. Antenna on tank 1.5NM from departure end of runway, 369' left of centerline, 208' AGL/712' MSL. **Rwy 18**, building 303' from departure end of runway, 354' right of centerline, 47' AGL/507' MSL. Tree 775' from departure end of runway, 138' right of centerline, 32' AGL/513' MSL. Tree 821' from departure end of runway, 329' right of centerline, 39' AGL/519' MSL. Tree 1031' from departure end of runway, 107' right of centerline, 49' AGL/530' MSL. Tree 1254' from departure end of runway, 399' left of centerline, 50' AGL/531' MSL. Tree 2004' from departure end of runway, 413' right of centerline, 55' AGL/536' MSL. **Rwy 31L**, multiple trees beginning 327' from departure end of runway, 374' right of centerline, up to 22' AGL/501' MSL. **Rwy 31R**, multiple trees beginning 366' from departure end of runway, 552' right of centerline, up to 29' AGL/505' MSL. Pole 39' from departure end of runway, 501' left of centerline, 27' AGL/487' MSL. Pole 1531' from departure end of runway, 717' right of centerline, 61' AGL/521' MSL. Trees 2080' from departure end of runway, 644' right of centerline, 54' AGL/530' MSL. **Rwy 36**, tree 52' from departure end of runway, 390' left of centerline, 43' AGL/523' MSL. Obstruction light on blast fence, 56' from departure end of runway, 298' right of centerline, 7' AGL/487' MSL. Trees 433' from departure end of runway, 357' right of centerline, 16' AGL/496' MSL. Trees 661' from departure end of runway, 95' left of centerline, 25' AGL/505' MSL. Building 898' from departure end of runway, 223' right of centerline, 25' AGL/505' MSL. Tree 1773' from departure end of runway, 240' right of centerline, 79' AGL/559' MSL. Multiple transmission line towers beginning 2577' from departure end of runway, 116' left of centerline, up to 68' AGL/556' MSL. Transmission line tower 2701' from departure end of runway, 818' right of centerline, 68' AGL/572' MSL.

DALLAS-FORT WORTH, TX

DALLAS-FORT WORTH INTL

TAKE-OFF MINIMUMS: **Rwy 35R**, 200-1½ or std. w/ min. climb of 221' per NM to 800, 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.

DEPARTURE PROCEDURE: **Rwy 35R**, climb heading 354° to 1200 before turning right.

NOTE: **Rwy 31L**, tree 1229' from departure end of runway, 730' right of centerline, 28' AGL/637' MSL. Transmission pole 3403' from departure end of runway, 1399' right of centerline, 86' AGL/708' MSL. Multiple trees beginning 928' from departure end of runway, 724' left of centerline, up to 55' AGL/654' MSL. **Rwy 35R**, multiple buildings beginning 5443' from departure end of runway, 202' right of centerline, up to 173' AGL/714' MSL.

DECATUR, TX

DECATUR MUNI (LUD)

AMDT 2 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, std. with a min. climb of 290' per NM to 3500, or 1400-2½ for climb in visual conditions. **Rwy 35**, std. with a min. climb of 315' per NM to 3500, or 1400-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 17, 35**, For climb in visual conditions, cross Decatur Muni Airport at or above 2400, before proceeding on course.

NOTE: **Rwy 17**, tower 5150' from departure end of runway, 896' right of centerline, 117' AGL/ 1173' MSL.

DENTON, TX

DENTON MUNI

NOTE: **Rwy 17**, multiple trees beginning 190' from departure end of runway, 178' right of centerline, up to 66' AGL/665' MSL. Building 371' from departure end of runway, 261' left of centerline, 14' AGL/643' MSL. **Rwy 35**, tree 1242' from departure end of runway, 806' right of centerline, 63' AGL/692' MSL.

DYESS AFB (KDYS),

ABILENE, TX 08297

TAKE-OFF OBSTACLES: **Rwy 16**: Tree, 100' AGL/ 1911' MSL, 2603' from DER, 484' right of centerline. Tree, 100' AGL/1888' MSL, 2720' from DER, 1153' left of centerline. Tree, 100' AGL/1885' MSL, 2679' from DER, 1218' left of centerline. Tree, 100' AGL/1888' MSL, 2203' from DER, 1150' right of centerline. Tree, 100' AGL/1888' MSL, 2194' from DER, 1177' right of centerline. Tree, 100' AGL/1885' MSL, 2639' from DER, 1207' left of centerline. Tree, 100' AGL/1885' MSL, 2621' from DER, 1173' left of centerline. Tree, 100' AGL/1885' MSL, 2616' from DER, 1201' left of centerline. Tree, 100' AGL/1885' MSL, 2576' from DER, 1190' left of centerline. **Rwy 34**: Terrain, 1796' MSL, 173' from DER, 545' left of centerline. Terrain, 1791' MSL, 19' from DER, 499' left of centerline. ASSAULT STRIP 162°: Vehicle, 15' AGL/1871' MSL, 104' from DER, 525' right of centerline. Terrain, 0' AGL/1805' MSL, 22' from DER, 95' left of centerline. ASSAULT STRIP 342°: Tree, 100' AGL/1824' MSL, 2060' from DER, 249' right of centerline. Tree, 100' AGL/1824' MSL, 1768' from DER, 299' right of centerline. Tree, 100' AGL/1824' MSL, 1602' from DER, 89' right of centerline. Tree, 100' AGL/1826' MSL, 1335' from DER, 272' right of centerline. Tree, 100' AGL/1824' MSL, 1134' from DER, 344' right of centerline. Tower, 16' AGL/1807' MSL, 370' from DER, 226' right of centerline. Terrain, 0' AGL/ 1794' MSL, 17' from DER, 240' left of centerline.

EASTLAND, TX

EASTLAND MUNI

TAKE-OFF MINIMUMS: **Rwy 35**, 300-1 ½ or std. with min. climb of 416' per NM to 1800.

NOTES: **Rwy 17**, multiple trees beginning 261' from departure end of runway left and right of centerline up to 100' AGL/1549' MSL. **Rwy 35**, multiple trees beginning 49' from departure end of runway 371' right of centerline and 871' from departure end of runway left and right of centerline up to 100' AGL/1689' MSL.

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FLOYDADA, TX

FLOYDADA MUNI (41F)
ORIG 09295 (FAA)

NOTE: **Rwy 17**, silo 3320' from DER, 355' right of centerline, 149' AGL/3329' MSL. Building 3648' from DER, 248' right of centerline, 108' AGL/3289' MSL.

Rwy 35, road and vehicle beginning 525' from DER, 19' left and right of centerline, up to 15' AGL/3202' MSL.

FORT WORTH, TX

BOURLAND FIELD (50F)
ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, std. w/min. climb of 453' per NM to 1500 or 300-1 and min. climb of 211' per NM to 1500 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 17**, for climb in visual conditions: cross Bourland Field at or above 1600 before proceeding on course.

NOTE: **Rwy 17**, trees beginning 65' from departure end of runway, 8' left of centerline, up to 30' AGL/969' MSL. **Rwy 35**, terrain beginning 15' from departure end of runway, 9' right of centerline, up to 981' MSL. Terrain beginning 91' from departure end of runway, 36' left of centerline, up to 959' MSL. Vehicle on road 276' from departure end of runway, 346' right of centerline, 17' AGL/869' MSL.

FORT WORTH ALLIANCE

TAKE-OFF MINIMUMS: **Rwy 16L**, 300-2¼ or std. w/min. climb of 208' per NM to 1100, or alternatively, w/standard takeoff minimums and a normal 200'/NM climb gradient. Takeoff must occur no later than 1400' prior to departure end of runway. **Rwy 16R**, 300-2¼ or std. w/min. climb of 210' per NM to 1100, or alternatively, w/standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1500' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 16R**, climb heading 163° to 1200 before turning right.

NOTE: **Rwy 16L**, light pole 1285' from departure end of runway, 689' left of centerline, 48' AGL/697' MSL. Water tower 1.8 NM from departure end of runway, 3122' right of centerline, 148' AGL/954' MSL. **Rwy 16R**, fence 4' from departure end of runway, 250' right of centerline, 12' AGL/669' MSL. Water tower 1.8 NM from departure end of runway, 2521' right of centerline, 148' AGL/954' MSL. Tower 1.5 NM south of departure end of runway, 4138' right of centerline, 203' AGL/1002' MSL. **Rwy 34L**, fence 8' from departure end of runway, 250' left of centerline, 6' AGL/719' MSL. Railroad 421' from departure end of runway, 409' left of centerline, 23' AGL/738' MSL. **Rwy 34R**, antenna 218' from departure end of runway, 146' left of centerline, 28' AGL/728' MSL.

FORT WORTH, TX (CON'T)

FORT WORTH MEACHAM INTL

TAKE-OFF MINIMUMS: **Rwy 9**, 300-1½ or std. w/min. climb of 216' per NM to 1000, or alternatively, w/standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1500' prior to departure end of runway. **Rwy 34**, 300-2 or std. w/min. climb of 222' per NM to 1100, or alternatively, w/standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1900' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 092° to 2000 before proceeding on course. **Rwy s 16, 17**, climb heading 164° to 2000 before proceeding on course.

NOTE: **Rwy 9**, windsock 293' from departure end of runway, 354' left of centerline, 51' AGL/721' MSL. Sign on building 481' from departure end of runway, 407' right of centerline, 39' AGL/702' MSL. Sign 2448' from departure end of runway, 540' left of centerline, 75' AGL/742' MSL. Grain elevators beginning 7085' from departure end of runway, 2191' left of centerline, 229' AGL/877' MSL. **Rwy 17**, bush 13' from departure end of runway, 160' right of centerline, 21' AGL/674' MSL. Antenna 953' from departure end of runway, 394' left of centerline, 72' AGL/722' MSL. Hangar 1380' from departure end of runway, 744' left of centerline, 43' AGL/703' MSL. **Rwy 27**, tree 239' from departure end of runway, 492' left of centerline, 35' AGL/685' MSL. **Rwy 34**, multiple trees 974' from departure end of runway, 62' right of centerline, up to 47' AGL/746' MSL. Grain elevator 1.52 NM from departure end of runway, 2775' right of centerline, 254' AGL/969' MSL. **Rwy 35**, tree 1' from departure end of runway, 248' left of centerline, 40' AGL/690' MSL. Tree 567' from departure end of runway, 225' right of centerline, 45' AGL/699' MSL. Bush 55' from departure end of runway, 143' left of centerline, 21' AGL/681' MSL. Obstruction light on dam 1359' from departure end of runway, 1' right of centerline, 46' AGL/706' MSL.

FORT WORTH SPINKS

TAKE-OFF MINIMUMS: **Rwys 17L, 35R**, NA. (Environmental)

DEPARTURE PROCEDURE: **Rwy 17R** climb heading 173° to 1200 before turning right.

NOTE: **Rwy 17R**, tree 4909' from departure end of runway, 1556' left of centerline, 60' AGL/830' MSL.

FORT WORTH, NAS JRB (CARSWELL FLD) (NFW)

FORT WORTH, TX

CAUTION: **Rwy 17** departure surface begins at 5' above DER elevation.

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GAINESVILLE, TX

GAINESVILLE MUNI (GLE)

ORIG 09127 (FAA)

NOTE: **Rwy 17**, trees and poles beginning 1' from DER, 472' right and left of centerline, up to 25' AGL/819' MSL.**Rwy 30**, taxiways beginning 651' from DER, crossing centerline left to right 859' MSL. Trees and terrain beginning 2' from DER, 14' left and right of centerline, up to 64' AGL/890' MSL. **Rwy 35**, terrain, trees, poles, road, and vehicle beginning 149' from DER, 51' left of centerline, up to 95' AGL/940' MSL. Terrain and poles beginning 13' from DER, 85' right of centerline, up to 37' AGL/882' MSL.**GLADEWATER, TX**

GLADEWATER MUNI

TAKE-OFF MINIMUMS: NOTE: **Rwy 14**, temp oil rig 390' MSL, 1853' from departure end of runway, 718' left of centerline.**GRAHAM, TX**

GRAHAM MUNI

DEPARTURE PROCEDURE: **Rwys 17, 21**, climb runway heading to 2000 before proceeding on course.NOTE: **Rwy 17**, light pole 21' from departure end of runway, 195' left of centerline, 30' AGL/1141' MSL. Light pole 86' from departure end of runway, 381' left of centerline, 50' AGL/1168' MSL.**GRANBURY, TX**

GRANBURY RGNL

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1.NOTE: **Rwy 14**, power line 1922' from departure end of runway, 176' right of centerline, 52' AGL/862' MSL.**GRAND PRAIRIE, TX**

GRAND PRAIRIE MUNI (GPM)

AMDT 4 09295 (FAA)

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn to 2000 via heading 200° and TTT R-180 to NINAE/TTT 24 DME before proceeding on course. DME Required. **Rwy 35**, climb heading 356° to 1400 before turning south.NOTE: **Rwy 17**, antenna 190' from DER, 456' right of centerline, 26' AGL/615' MSL. Road, multiple poles and signs beginning 570' from DER, 410' right of centerline, up to 31' AGL/620' MSL. Tree 1506' from DER, 517' right of centerline, 37' AGL/617' MSL. **Rwy 35**, tree 837' from DER, 204' left of centerline, up to 100' AGL/665' MSL. Pole 2687' from DER, 122' left of centerline, up to 75' AGL/653' MSL.**GREENVILLE, TX**

MAJORS (GVT)

AMDT 1 08269 (FAA)

NOTE: **Rwy 17**, trees beginning 1832' from departure end of runway, 397' right of centerline, up to 49' AGL/578' MSL.**HASKELL, TX**

HASKELL MUNI

TAKE-OFF MINIMUMS: **Rwy 18**, 600-2 or std. with a min. climb of 340' per NM to 2300.DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 2300 before proceeding on course.

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TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

**HENDERSON, TX**

RUSK COUNTY

DEPARTURE PROCEDURE: **Rwy 12**, climb to 1100' before turning northbound. **Rwy 34**, climb to 2200' before turning westbound.**HILLSBORO, TX**

HILLSBORO MUNI

TAKE-OFF MINIMUMS: **Rwy 16**, 600-3 or std. w/ min. climb of 250' per NM to 1500, or 1100-2 ½ for climb in visual conditions.DEPARTURE PROCEDURE: **Rwy 16**, for climb in visual conditions: Cross Hillsboro Muni Airport at or above 1600 before proceeding on course.**LANCASTER, TX**

LANCASTER

TAKE-OFF MINIMUMS: **Rwy 31**, 200-1 ½ or std. w/ min. climb of 222' per NM to 800.DEPARTURE PROCEDURE: **Rwy 31**, climb via heading 314° to 1900 before turning left.NOTE: **Rwy 31**, multiple trees beginning 1133' from departure end of runway, 479' left of centerline, up to 40' AGL/541' MSL. Trees 886' from departure end of runway, 637' right of centerline, 35' AGL/536' MSL. Multiple poles beginning 5613' from departure end of runway, 1171' right of centerline, up to 101' AGL/661' MSL.**LEVELLAND, TX**

LEVELLAND MUNI

TAKE-OFF MINIMUMS: **Rwy 26**, 600-3 or std. with a min. climb of 250' per NM to 4300. **Rwy 35**, 400-2 or std. with a min. climb of 230' per NM to 4000.NOTE: **Rwy 26**, cross departure end of runway at or above 35' AGL/3537' MSL. **Rwy 35**, cross departure end of runway at or above 35' AGL/3540' MSL. **Rwy 35**, tower, 10,185 from departure end of runway, 2828' left of centerline, 304' AGL/3821' MSL.**LONGVIEW, TX**

EAST TEXAS RGNL (GGG)

AMDT 1 08325 (FAA)

NOTE: **Rwy 13**, multiple trees 720' from departure end of runway, 547' left of centerline, up to 50' AGL/404' MSL. Multiple trees 1381' from departure end of runway, 600' right of centerline, up to 55' AGL/409' MSL. **Rwy 18**, multiple trees beginning 790' from departure end of runway, left and right of centerline, up to 94' AGL/459' MSL. **Rwy 31**, tree 1489' from departure end of runway, 842' left of centerline, 49' AGL/406' MSL. Tree 1737' from departure end of runway, 755' right of centerline, 63' AGL/420' MSL. **Rwy 36**, multiple trees beginning 1590' from departure end of runway, 520' left of centerline, up to 84' AGL/438' MSL. Tree 2384' from departure end of runway, 18' right of centerline, 65' AGL/419' MSL.

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MC KINNEY, TX

COLLIN COUNTY RGNL AT MC KINNEY

NOTE: **Rwy 17**, bush 29' from departure end of runway, 499' right of centerline, 5' AGL/591' MSL. Obstruction light on DME 400' from departure end of runway, 266' right of centerline, 16' AGL/602' MSL. Trees 784' from departure end of runway, 574' right of centerline, 39' AGL/625' MSL. **Rwy 35**, trees 1060' from departure end of runway, 634' right of centerline, 65' AGL/605' MSL. Multiple trees beginning 1532' from departure end of runway, 632' left of centerline, up to 79' AGL/626' MSL.

MESQUITE, TX

MESQUITE METRO

DEPARTURE PROCEDURE: **Rwy 17**, climb heading 175° to 900 before turning left.

NOTE: **Rwy 17**, multiple trees, sign and fences beginning 10' from departure end of runway, 362' left of centerline, up to 35' AGL/478' MSL. **Rwy 35**, hangar 53' from departure end of runway, 497' left of centerline, 23' AGL/470' MSL. Multiple trees and poles beginning 999' from departure end of runway, 708' left of centerline, up to 44' AGL/483' MSL. Bush 45' from departure end of runway, 466' right of centerline, 10' AGL/457' MSL. Pole 814' from departure end of runway, 288' right of centerline, 27' AGL/467' MSL. Construction equipment 892' from departure end of runway, 628' right of centerline, 59' AGL/489' MSL.

MIDLOTHIAN/WAXAHACHIE, TX

MID-WAY

DEPARTURE PROCEDURE: **Rwy 18**, northbound departures climb runway heading to 1500 before proceeding on course. **Rwy 36**, northbound and westbound departures climb heading 020° to 2700 before proceeding on course.

MINEOLA-QUITMAN, TX

WOOD COUNTY

NOTE: **Rwy 18**, trees 336' from departure end of runway, 484' right of centerline, 100' AGL/549' MSL. Trees 775' from departure end of runway 339' right of centerline, 100' AGL/559' MSL. Trees 942' from departure end of runway, 460' right of centerline, 100' AGL/559' MSL. Trees 23' from departure end of runway, 239' right of centerline, 100' AGL/534' MSL. Trees 33' from departure end of runway, 495' right of centerline, 100' AGL/534' MSL. Trees 239' from departure end of runway, 453' left of centerline, 100' AGL/539' MSL. Trees 11' from departure end of runway, 474' left of centerline, 100' AGL/529' MSL. Trees 16' from departure end of runway, 253' left of centerline, 100' AGL/529' MSL. Terrain 932' from departure end of runway, 204' right of centerline, 0' AGL/460' MSL. Terrain 326' from departure end of runway, 228' right of centerline, 0' AGL/443' MSL. Terrain 912' from departure end of runway, 308' left of centerline, 0' AGL/457' MSL. Terrain 629' from departure end of runway, 216' right of centerline, 0' AGL/450' MSL. Terrain 639' from departure end of runway, 472' right of centerline, 0' AGL/450' MSL. Terrain 922' from departure end of runway, 52' left of centerline, 0' AGL/457' MSL. Terrain 14' from departure end of runway, 17' left of centerline, 0' AGL/434' MSL. **Rwy 36**, trees 1 foot from departure end of runway, 240' right of centerline, 100' AGL/509' MSL. Trees 780' from departure end of runway, on centerline, 100' AGL/509' MSL. Trees 450' from departure end of runway, 270' left of centerline, 100' AGL/499' MSL. Trees 450' from departure end of runway, 350' right of centerline, 100' AGL/479' MSL.

MINERAL WELLS, TX

MINERAL WELLS

TAKE-OFF MINIMUMS: **Rwy 31**, 500-3 or std. with a min. climb of 220' per NM to 1600.

NOTE: **Rwy 31**, cross departure end of runway at or above 35' AGL/948' MSL.

MOUNT PLEASANT, TX

MOUNT PLEASANT RGNL (OSA)

ORIG 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 35**, 300-1¼ or std. w/ min. climb of 309' per NM to 700, or alternatively, with standard take-off minimums and a normal 200' per NM climb gradient, take-off must occur no later than 1,600' prior to departure end of runway.

NOTE: **Rwy 17**, trees 1231' from departure end of runway, 679' right of centerline, 100' AGL/399' MSL.

Rwy 35, tower 1.04 NM from departure end of runway, 1261' right of centerline, 180' AGL/539' MSL. Trees 695' from departure end of runway, 614' left of centerline, 100' AGL/469' MSL.

PARIS, TX

COX FIELD

NOTE: **Rwy 17**, multiple trees beginning 88' from departure end of runway, 299' right of centerline, up to 50' AGL/558' MSL. **Rwy 35**, bushes and pole beginning 406' from departure end of runway, 402' left of centerline up to 35' AGL/573' MSL. Multiple trees beginning 161' from departure end of runway, 81' right of centerline, up to 50' AGL/578' MSL. **Rwy 32**, multiple trees beginning 716' from departure end of runway, 488' right of centerline, up to 50' AGL/568' MSL.

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TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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PLAINS, TX

YOAKUM COUNTY (F98)

ORIG 08269 (FAA)

NOTE: **Rwy 3**, tree 948' from departure end of runway, 725' left of centerline, 50' AGL/3769' MSL. **Rwy 17**, vehicle on road 99' from departure end of runway, 476' right of centerline, 15' AGL/3699' MSL. **Rwy 35**, vehicle on road 546' from departure end of runway, 527' left of centerline, 15' AGL/3714' MSL.

ROCKWALL, TX

ROCKWALL MUNI

NOTE: **Rwy 17**, cross departure end of runway at or above 598' MSL/35' AGL. East-west road at departure end of runway, 10' AGL/574' MSL. East-west railroad track 860' from departure end of runway, 23' AGL/612' MSL. **Rwy 35**, cross departure end of runway at or above 594' MSL/35' AGL. Multiple transmission towers from 318' to 467' from departure end of runway, left and right of centerline, from 60' AGL/590' MSL to 75' AGL/614' MSL.

SHEPPARD AFB/WICHITA FALLS MUNI (KSPS)

WICHITA FALLS, TX 09239

DEPARTURE PROCEDURE: **Rwy 15R/15C/15L**,

Climb on track 150° to 2500' before turning Westbound.

Rwy 17, Climb heading 160° to 2500', intercept SPS

VORTAC R-120 outbound. Cross SPS R-120/8 DME

(HUNEP) at or below 2500', then climb and maintain

5000' or higher as assigned. Turn on course after

reaching 3100'. **Rwy 35**, Climb on track 350° to 2500'

before turning Westbound.

TAKE-OFF OBSTACLES: **Rwy 17**, Light pole 31' AGL/

1040' MSL, 837' from DER, 726' left of centerline.

SNYDER, TX

WINSTON FIELD

DEPARTURE PROCEDURE: **Rwy 26**, climb via heading

263° to 3000' prior to turning northbound.

SPEARMAN, TX

SPEARMAN MUNI (E42)

ORIG 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 20**, 300-1¼ or std. w/ min.

climb of 286' per NM to 3500.

NOTE: **Rwy 20**, Vehicle on road 174' from departure end

of runway, 496' right of centerline, 15' AGL/3094' MSL.

Tower 4330' from departure end of runway, 575' left of

centerline, 100' AGL/3228' MSL. Tower 1.26 NM from

departure end of runway, 2533' left of centerline, 250'

AGL/3355' MSL.

STEPHENVILLE, TX

CLARK FIELD MUNI

NOTE: **Rwy 32**, trees beginning 1687' from departure end

of runway, 124' right of centerline, 80' AGL/1389' MSL.

STRATFORD, TX

STRATFORD FIELD

TAKE-OFF MINIMUMS: **Rwy 22**, 400-2 or std. with a min.

climb of 290' per NM to 4100.

SULPHUR SPRINGS, TX

SULPHUR SPRINGS MUNI

TAKE-OFF MINIMUMS: **Rwy 18**, 400-2.

DEPARTURE PROCEDURE: **Rwys 18, 36**, climb to 900 before proceeding east of airport.

TERRELL, TX

TERRELL MUNI

TAKE-OFF MINIMUMS: **Rwy 32**, std. with a min. climb of 430' per NM to 800.

NOTE: **Rwy 32**, cross departure end of runway at or

above 35' AGL/508' MSL. **Rwy 32**, tower, 3364' from

departure end of runway, 1069' left of centerline, 125'

AGL/624' MSL.

TYLER, TX

TYLER POUNDS RGNL

NOTE: **Rwy 4**, road and vehicle 605' from departure end

of runway, 643' left of centerline, 15' AGL/544' MSL.

Multiple trees beginning 648' from departure end of

runway, 301' right of centerline, up to 74' AGL/576' MSL.

Rwy 13, road, antenna and multiple trees beginning 607'

from departure end of runway, 272' left of centerline, up

to 73' AGL/614' MSL. Multiple trees beginning 12' from

departure end of runway, 290' right of centerline, up to

73' AGL/581' MSL. **Rwy 17**, tree 970' from departure

end of runway, 362' left of centerline, 57' AGL/586' MSL.

Tree 1339' from departure end of runway, 207' right of

centerline, 69' AGL/578' MSL. **Rwy 22**, multiple trees

beginning 166' from departure end of runway, 92' left of

centerline, up to 86' AGL/605' MSL. Terrain and

multiple trees beginning 28' from departure end of

runway, 323' right of centerline, up to 46' AGL/626' MSL.

Rwy 31, road and multiple trees beginning 326' from

departure end of runway, 533' right of centerline, up to

78' AGL/564' MSL. Multiple trees beginning 907' from

departure end of runway, 666' left of centerline, up to 67'

AGL/556' MSL. **Rwy 35**, road 901' from departure end of

runway, on centerline, 15' AGL/544' MSL. Multiple trees

and tower beginning 1068' from departure end of runway,

303' right of centerline, up to 73' AGL/574' MSL.

WICHITA FALLS, TX

KICKAPOO DOWNTOWN

TAKE-OFF MINIMUMS: **Rwy 17**, 1100-2 or std. with a

min. climb of 370' per NM to 2300. **Rwy 35**, 1100-2 or

std. with a min. climb of 380' per NM to 2300.

WICHITA VALLEY

TAKE-OFF MINIMUMS: **Rwys 13, 16**, turn right after

take-off to avoid 2049' tower 4 NM southeast of airport.

WINNSBORO, TX

WINNSBORO MUNI

DEPARTURE PROCEDURE: **Rwy 1, 19**, climb runway

heading to 1000 prior to turn.

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