



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 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 another DP or radar vector by ATC, this procedure may be flown 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: FAR 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 REGIONAL
TAKE-OFF MINIMUMS: Rwy 17L, 1200-2 or std. with a min. climb of 270' per NM to 3200.

AMARILLO, TX
RICK HUSBAND AMARILLO INTL
DEPARTURE PROCEDURE: Rwy 31, turn right heading 360°, climb to 5400 before proceeding westbound or comply with RADAR vectors.

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

ANDREWS, TX
ANDREWS COUNTY
TAKE-OFF MINIMUMS: Rwy 20, 400-3 or std. with a min. climb of 210' per NM to 3600.
NOTE: Rwy 11, cross departure end of runway at or above 20' AGL/3178' MSL. Rwy 20, cross departure end of runway at or above 35' AGL/3201' MSL. Rwy 29, cross departure end of runway at or above 3' AGL/3169' MSL.

NAME TAKE-OFF MINIMUMS
ARLINGTON, TX
ARLINGTON MUNI
DEPARTURE PROCEDURE: Rwy 16, climb runway heading to 2500 before turning left. Rwy 34, climb runway heading to 1400 before turning southeast bound.

ATLANTA, TX
HALL-MILLER MUNI
TAKE-OFF MINIMUMS: Rwy 15, 500-2 or std. with a min. climb of 260' per NM to 600.
DEPARTURE PROCEDURE: Rwy 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.

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**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

TAKE-OFF MINIMUMS: **Rwys 17, 21**, 300-1.**BRIDGEPORT, TX**

BRIDGEPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 17**, 300-1 or std. with a min. climb of 340' per NM to 1300.**CADDO MILLS, TX**

CADDO MILLS MUNI

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

HEMPHILL COUNTY

TAKE-OFF MINIMUMS: **Rwy 4**, 300-1 or std. with a min. climb of 230' per NM to 2700. **Rwy 18**, 800-2 or std. with a min. climb of 250' per NM to 3300. **Rwy 22**, 800-2 or std. with a min. climb of 230' per NM to 3300.**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**, 400-2 or std. with a min. climb of 234' per NM to 1100.NOTE: **Rwy 15**, multiple buildings beginning 258' to 1.83 NM from departure end of runway, 21' to 1307' on or left of centerline, up to 152' AGL/787' MSL. Multiple buildings, R/R, road beginning 268' to 1.94 NM from departure end of runway, 5' to 995' right of centerline, up to 311' AGL/955' MSL. **Rwy 33**, multiple poles and buildings beginning 46' to 3124' from departure end of runway, 186' to 801' right of centerline, up to 84' AGL/720' MSL. Multiple poles and buildings beginning 640' to 2690' from departure end of runway, 21' to 647' left of centerline, up to 65' AGL/709' MSL.**DALLAS EXECUTIVE**DEPARTURE PROCEDURE: **Rwys 13, 17**, climb runway heading to 2400 before turning westbound.**Rwys 31, 35**, climb runway heading to 1600 before turning southbound.**DALLAS, TX (CON'T)**

DALLAS-LOVE FIELD

TAKE-OFF MINIMUMS: **Rwy 13L**, std. with a min. climb of 244' per NM to 1500. **Rwy 13R**, std. with a min. climb of 304' 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**, floodlight 965' from departure end of runway, 743' right of centerline, 31' AGL/514' MSL. Multiple trees and poles beginning 1166' from departure end of runway, 516' to 759' left of centerline, up to 60' AGL/547' MSL. **Rwy 13R**, road, tree, and pole beginning 203' from departure end of runway, 480' to 721' right of centerline, up to 38' AGL/514' MSL. Light standard, sign, rod on stack beginning 691' from departure end of runway, 555' to 991' left of centerline, up to 61' AGL/537' MSL. **Rwy 18**, multiple trees and pipe beginning 605' from departure end of runway, 93' to 415' left of centerline, up to 41' AGL/523' MSL. Multiple trees, building, and obstacle light on hanger beginning 300' from departure end of runway, 90' to 572' right of centerline, up to 48' AGL/530' MSL. **Rwy 31L**, tree 340' from departure end of runway, 408' right of centerline, 10' AGL/486' MSL. Tree 253' from departure end of runway, 429' left of centerline, 7' AGL/483' MSL. **Rwy 31R**, multiple trees and pole beginning 38' from departure end of runway, 392' to 524' left of centerline, up to 13' AGL/490' MSL. Multiple trees and poles beginning 366' from departure end of runway, 553' to 720' right of centerline, 48' AGL/525' MSL.**DALLAS-FORT WORTH, TX**

DALLAS-FORT WORTH INTL

DEPARTURE PROCEDURE: **Rwy 35R**, climb via heading 354° to 1200 before turning right.NOTE: **Rwy 31L**, multiple trees 928' to 2034' from departure end of runway, 724' to 873' left of centerline, up to 32' AGL/654' MSL. **Rwy 35R**, tower 2.73 NM from departure end of runway, 1.9 NM right of centerline, 413' AGL/1016' MSL.**DECATUR, TX**

DECATUR MUNI

TAKE-OFF MINIMUMS: **Rwy 17**, std. with a min. climb of 252' per NM to 3500. **Rwy 35**, std. with a min. climb of 321' per NM to 3500.**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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## FORT WORTH, TX

## FORT WORTH MEACHAM INTL

DEPARTURE PROCEDURE: **Rwy 9**, climb via heading 092° to 1800 before turning southbound. **Rwy 16**, climb via heading 164° to 1800 before turning eastbound.

**Rwy 17**, climb via heading 164° to 1600 before turning eastbound.

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 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. Tower 953' from departure end of runway, 394' left of centerline, 72' AGL/722' MSL. Hanger 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**, billboard 692' from departure end of runway, 686' right of centerline, 40' AGL/739' MSL. Trees 974' from departure end of runway, 682' right of centerline, 47' AGL/746' MSL. Grain elevators 9239' from departure end of runway, 2765' right of centerline, 254' AGL/974' MSL. **Rwy 35**, tree 1' from departure end of runway, 248' left of centerline, 40' AGL/690' MSL. Terrain 28 to 293' from departure end of runway, 217 to 513' right of centerline, 0' AGL/670' to 680' MSL. Bush 55' from departure end of runway, 143' left of centerline, 21' AGL/681' MSL. Tree 567' from departure end of runway, 225' right of centerline, 36' AGL/699' MSL. 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.

DEPARTURE PROCEDURE: **Rwys 17R** climb runway heading to 1200 before turning right.

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

## FORT WORTH, TX

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

## 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.

## GRANBURY, TX

## GRANBURY MUNI

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

TAKE-OFF MINIMUMS: **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn to 2000 via heading 200° and TTT R-180 to NAHMU/20 DME, before proceeding on course.

## GREENVILLE, TX

## GREENVILLE/MAJORS

TAKE-OFF MINIMUMS: **Rwy 17**, 300-1 or std. with a min. climb of 210' per NM to 600.

NOTE: **Rwy 17**, tree, 1047' from departure end of runway, 498' right of centerline, 62' AGL/586' MSL. Cross departure end of runway at or above 35' AGL/560' 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.

## 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 1100-2½ 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

DEPARTURE PROCEDURE: **Rwy 31**, climb via heading 314° to 1100 before turning westbound.

NOTE: **Rwy 31**, multiple trees, poles, and terrain beginning 202' from departure end of runway, 530' right of centerline, up to 35' AGL/536' MSL. Multiple trees beginning 1134' from departure end of runway, 480' left of centerline, up to 40' AGL/541' MSL.

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## 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.

## MESQUITE, TX

## MESQUITE METRO

DEPARTURE PROCEDURE: **Rwy 17**, climb runway heading to 1000 before turning left.

NOTE: **Rwy 17**, 970' tower 2.71 NM southeast of departure end of runway.

## 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.

## 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.

## 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.

## SNYDER, TX

## WINSTON FIELD

DEPARTURE PROCEDURE: **Rwy 26**, climb via heading 263° to 3000 prior to turning northbound.

## 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.

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**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.

**SHEPPARD AFB/WICHITA FALLS MUNI**

TAKE-OFF MINIMUMS: **Rwys 15L/R/C, 17**, climb runway heading to 2400 before turning westbound.

**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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