

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>	<u>AMDT NO</u>	<u>ACTUAL EFFECTIVE DATE</u>
CORVALLIS MUNI	KCVO	CORVALLIS	OR	7	2 DECEMBER 2021

TAKEOFF MINIMUMS:

RWY 10: STANDARD WITH MINIMUM CLIMB GRADIENT OF 263 FT PER NM TO 2900 OR 3400-3 FOR VCOA.
RWY 17: STANDARD WITH MINIMUM CLIMB GRADIENT OF 265 FT PER NM TO 2900 OR 3400-3 FOR VCOA.
RWY 28: STANDARD WITH MINIMUM CLIMB GRADIENT OF 329 FT PER NM TO 3000 OR 3400-3 FOR VCOA.
RWY 35: STANDARD WITH MINIMUM CLIMB GRADIENT OF 344 FT PER NM TO 3000 OR 3400-3 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

RWY 10: CLIMB HEADING 096.97 TO 1200, THEN CLIMBING LEFT TURN DIRECT CVO VOR/DME, THENCE...
RWY 17: CLIMB HEADING 171.96 TO 1300, THEN CLIMBING LEFT TURN DIRECT CVO VOR/DME, THENCE...
RWY 28: CLIMB HEADING 276.97 TO 1600, THEN CLIMBING RIGHT TURN DIRECT CVO VOR/DME, THENCE...
RWY 35: CLIMB HEADING 351.96 TO 1600, THEN CLIMBING RIGHT TURN DIRECT CVO VOR/DME, THENCE...

...CLIMB IN CVO VOR/DME HOLDING PATTERN (HOLD EAST, RIGHT TURNS, 261.00 INBOUND) TO CROSS CVO VOR/DME AT OR ABOVE 3500.

VISUAL CLIMB OVER AIRPORT:

ALL RUNWAYS: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS CVO VOR/DME AT OR ABOVE 3500 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 10, TERRAIN 10 FT FROM DER, 151 FT LEFT OF CENTERLINE, 247 FT MSL.
TREE, VEHICLE ON ROAD BEGINNING 294 FT FROM DER, 111 FT LEFT OF CENTERLINE, UP TO 286 FT MSL.
VEHICLE ON ROAD 426 FT FROM DER, 9 FT RIGHT OF CENTERLINE, 268 FT MSL.
VEHICLE ON ROAD BEGINNING 457 FT FROM DER, 114 FT RIGHT OF CENTERLINE, UP TO 269 FT MSL.
TREES BEGINNING 542 FT FROM DER, 309 FT LEFT OF CENTERLINE, UP TO 308 FT MSL.
VEGETATION 558 FT FROM DER, 380 FT RIGHT OF CENTERLINE, 275 FT MSL.
TREE 1781 FT FROM DER, 691 FT LEFT OF CENTERLINE, 309 FT MSL.
TREE 1952 FT FROM DER, 774 FT LEFT OF CENTERLINE, 328 FT MSL.
TREES BEGINNING 2125 FT FROM DER, 121 FT LEFT OF CENTERLINE, UP TO 341 FT MSL.
TREE 2927 FT FROM DER, 20 FT RIGHT OF CENTERLINE, 325 FT MSL.
TREE 3187 FT FROM DER, 947 FT LEFT OF CENTERLINE, 383 FT MSL.
TREE 3471 FT FROM DER, 143 FT RIGHT OF CENTERLINE, 335 FT MSL.
TREE 4376 FT FROM DER, 1132 FT RIGHT OF CENTERLINE, 380 FT MSL.

NOTE: RWY 17, TREE 41 FT FROM DER, 77 FT LEFT OF CENTERLINE, 250 FT MSL.

NOTE: RWY 28, TREE 42 FT FROM DER, 188 FT LEFT OF CENTERLINE, 247 FT MSL.
ANTENNA 901 FT FROM DER, 352 FT LEFT OF CENTERLINE, 26 FT AGL/269 FT MSL.
TOWER 906 FT FROM DER, 326 FT LEFT OF CENTERLINE, 32 FT AGL/275 FT MSL.
TREE 1608 FT FROM DER, 850 FT RIGHT OF CENTERLINE, 289 FT MSL.

NOTE: RWY 35, TREES BEGINNING 2 FT FROM DER, 271 FT LEFT OF CENTERLINE, UP TO 247 FT MSL.
TREES BEGINNING 473 FT FROM DER, 549 FT LEFT OF CENTERLINE, UP TO 278 FT MSL.
TREE 507 FT FROM DER, 558 FT RIGHT OF CENTERLINE, 261 FT MSL.
TREE 1506 FT FROM DER, 660 FT LEFT OF CENTERLINE, 283 FT MSL.
TREES BEGINNING 2.3 NM FROM DER, 1696 FT LEFT OF CENTERLINE, UP TO 615 FT MSL.

CONTROLLING OBSTACLES:

ALL RUNWAYS: 2320 MSL AAO 443747.87N/1232107.08W.
OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: 4280 MSL AAO 443016.33N/1233308.61W.
VISUAL CLIMB AREA OBSTACLE: 771 MSL AAO 442921.00N/1232227.00W.
OBSTACLE OUTSIDE VISUAL CLIMB AREA MANDATING VCOA CLIMB TO ALTITUDE : 4280 MSL AAO 443016.33N/1233308.61W.

REMARKS:

FLIGHT INSPECTED BY
GARY J VEER

Digitally signed by
ALLAN WILL
Sep 02, 2021

OFFICE
FPO

DATE
08/31/2021



AIRPORT	AIRPORT ID	CITY	STATE	AMDT NO	EFFECTIVE DATE
CORVALLIS MUNI	KCVO	CORVALLIS	OR	7	2 DECEMBER 2021

DEVELOPED BY	<i>Digitally signed by</i>	OFFICE	DATE
TOMMY BYRNS	TOMMY BYRNS	AJV-A423	06/22/2021
	Jul 20, 2021		

APPROVED BY	<i>Digitally signed by</i>	OFFICE	DATE	TITLE
MARLON ROBINSON	ALLAN WILL	AJV-A420		MANAGER
	Sep 02, 2021			

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** AMGR, CVO ATCT, ZSE

CHANGES - REASONS:

1. CHANGED ALL REFERENCES TO RWY 09/27 TO RWY 10/28 - MAG VAR CHANGED FROM E18/1995 TO E15/2020.
2. RWY 10 TAKEOFF MINIMUMS CHANGED FROM "STANDARD WITH MINIMUM CLIMB GRADIENT OF 270 FT PER NM TO 2900 OR 3300-3 FOR VCOA" TO "STANDARD WITH MINIMUM CLIMB GRADIENT OF 263 FT PER NM TO 2900 OR 3400-3 FOR VCOA" - CALCULATION DIFFERENCES USING TARGETS AND NEW OBSTACLE EVALUATION.
3. RWY 17 TAKEOFF MINIMUMS CHANGED FROM "STANDARD WITH MINIMUM CLIMB GRADIENT OF 271 FT PER NM TO 2900 OR 3300-3 FOR VCOA" TO "STANDARD WITH MINIMUM CLIMB GRADIENT OF 265 FT PER NM TO 2900 OR 3400-3 FOR VCOA" - CALCULATION DIFFERENCES USING TARGETS AND NEW OBSTACLE EVALUATION.
4. RWY 28 TAKEOFF MINIMUMS CHANGED FROM "STANDARD WITH MINIMUM CLIMB GRADIENT OF 337 FT PER NM TO 3100 OR 3300-3 FOR VCOA" TO "STANDARD WITH MINIMUM CLIMB GRADIENT OF 329 FT PER NM TO 3000 OR 3400-3 FOR VCOA" - CALCULATION DIFFERENCES USING TARGETS AND NEW OBSTACLE EVALUATION.
5. RWY 35 TAKEOFF MINIMUMS CHANGED FROM "STANDARD WITH MINIMUM CLIMB GRADIENT OF 350 FT PER NM TO 3100 OR 3300-3 FOR VCOA" TO "STANDARD WITH MINIMUM CLIMB GRADIENT OF 344 FT PER NM TO 3000 OR 3400-3 FOR VCOA" - CALCULATION DIFFERENCES USING TARGETS AND NEW OBSTACLE EVALUATION.
6. RWY 10 TEXTUAL DEPARTURE PROCEDURE CHANGED FROM "CLIMB HEADING 096.96 TO 1200, THEN CLIMBING LEFT TURN DIRECT CVO VOR/DME, THENCE..." TO "CLIMB HEADING 096.97 TO 1200, THEN CLIMBING LEFT TURN DIRECT CVO VOR/DME, THENCE..." - NEW SURVEY DATA.
7. RWY 17 TEXTUAL DEPARTURE PROCEDURE CHANGED FROM "CLIMB HEADING 171.97 TO 1300, THEN CLIMBING LEFT TURN DIRECT CVO VOR/DME, THENCE..." TO "CLIMB HEADING 171.96 TO 1300, THEN CLIMBING LEFT TURN DIRECT CVO VOR/DME, THENCE..." - NEW SURVEY DATA.
8. VISUAL CLIMB OVER AIRPORT INSTRUCTIONS CHANGED FROM "ALL RUNWAYS: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS CVO VOR/DME AT OR ABOVE 3400." CHANGED TO "ALL RUNWAYS: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS CVO VOR/DME AT OR ABOVE 3500 BEFORE PROCEEDING ON COURSE." - CALCULATION DIFFERENCES USING TARGETS AND NEW OBSTACLE EVALUATION.
9. UPDATED TAKEOFF OBSTACLE NOTES - NEW OBSTACLE EVALUATION.
10. CONTROLLING OBSTACLE FOR ALL RUNWAYS CHANGED FROM 2355 MSL AAO 443747.55N/1232103.46W TO 2320 MSL AAO 443747.87N/1232107.08W. - NEW MAP STUDY BASED ON 1:24K MAP.
11. ADDED VISUAL CLIMB AREA OBSTACLE: 771 MSL AAO 442921.00N/1232227.00W - OBSTACLE IDENTIFIED FROM OTHER PROCEDURES AT AIRPORT.

