

**BALLARAT**

RWY	(CN)	TORA	TODA	ASDA	LDA
05	(3)	1265 (4150)	1325 (4347) (4.58%)	1265 (4150)	1265 (4150)
RWY 05 S side transitional SFC infringed by tower and radio aerial.					
23	(3)	1265 (4150)	1325 (4347) (6.05%)	1265 (4150)	1265 (4150)
Slope 0.4% from centre down to ends. RWY WID 30 RWS WID 90					
13	(1)	568 (1863)	628 (2060) (2.05%)	568 (1863)	568 (1863)
31	(1)	568 (1863)	628 (2060) (1.36%)	568 (1863)	568 (1863)
Slope 0.6% down to N. RWY WID 30 RWS WID 90					
18	(3)	1245 (4085)	1305 (4281) (2.49%)	1245 (4085)	1245 (4085)
1. 3.33% OBST CLR APCH SFC LDG RWY 18 terminates at THR, not RWS end.					
2. LDG RWY 18 - Unlit OBST fence 4.9FT ABV and 36M N of RWS end.					
3. Transient OBST up to 17.6FT ABV and 57M S of RWS end is not taken into account in calculation of TODA GRAD and STODA.					
4. OBST fence up to 6.5FT ABV and PARL to RWY, 78M E of RCL not taken into account in calculation of TODA GRAD and STODA.					
5. Unlit OBST fence 8.2FT ABV, 32M S of RWS end not taken into account in calculation of TODA GRAD and STODA.					
36	(3)	1245 (4085)	1305 (4281) (3.18%)	1245 (4085)	1245 (4085)
OBST fences 4.2FT ABV and PARL to RWY, 77M E of RCL, and 3.8FT ABV and 87M W of RCL are not taken into account in calculation of TODA GRAD and STODA.					
Slope 0.1% down to N. RWY WID 30 RWS WID 150 Graded 90					

**SUPPLEMENTARY TAKEOFF DISTANCES**

RWY05-	972(3189)(2.2)	1050(3445)(2.5)	1206(3957)(3.3)		
RWY23-	878(2881)(1.6)	1004(3294)(1.9)	1119(3671)(2.2)	1217(3993)(2.5)	1311(4301)(3.3)
	1321(4334)(5.0)				
RWY18-	841(2759)(1.9)	1115(3658)(2.2)			
RWY36-	1221(4006)(2.5)				