

Build yer own

Appendix A - Custom Built Ballpark Dimensions

	Distance to:				
	LF Wall	LCF	CF Wall	RCF	RF Wall
Min	305	350	390	350	305
Avg *	332	376	405	378	329
Max	400	440	460	440	400

	Wall Height:				
	LF Wall	LCF	CF Wall	RCF	RF Wall
Min	6	6	6	6	6
Avg *	10	10	9	9	11
Max	37	37	37	37	37

* The averages provided above are the current mlb ballpark averages.

Distances to Outfield Walls

	LF	LCF	CF	RCF	RF
<u>305 to 310</u>	PLUS 5				PLUS 5
<u>311 to 315</u>	PLUS 4				PLUS 4
<u>316 to 320</u>	PLUS 3				PLUS 3
<u>321 to 324</u>	PLUS 2				PLUS 2
<u>325 to 328</u>	PLUS 1				PLUS 1
<u>329 to 336</u>	NO Effect				NO Effect
<u>337 to 349</u>	MINUS 1				MINUS 1
<u>350 to 355</u>	MINUS 2	PLUS 5		PLUS 5	MINUS 2
<u>356 to 359</u>	MINUS 3	PLUS 4		PLUS 4	MINUS 3
<u>360 to 364</u>	MINUS 3	PLUS 3		PLUS 3	MINUS 3
<u>365 to 370</u>	MINUS 4	PLUS 2		PLUS 2	MINUS 4
<u>371 to 375</u>	MINUS 4	PLUS 1		PLUS 1	MINUS 4
<u>376 to 384</u>	MINUS 5	NO Effect		NO Effect	MINUS 5
<u>385 to 389</u>	MINUS 5	MINUS 1		MINUS 1	MINUS 5
<u>390 to 395</u>	MINUS 6	MINUS 1	PLUS 5	MINUS 1	MINUS 6
<u>396 to 400</u>	MINUS 7	MINUS 2	PLUS 4	MINUS 2	MINUS 7
<u>401 to 405</u>		MINUS 2	PLUS 3	MINUS 2	
<u>406 to 410</u>		MINUS 3	PLUS 2	MINUS 3	
<u>411 to 415</u>		MINUS 3	PLUS 1	MINUS 3	
<u>416 to 420</u>		MINUS 4	NO Effect	MINUS 4	
<u>421 to 425</u>		MINUS 4	MINUS 1	MINUS 4	
<u>426 to 430</u>		MINUS 5	MINUS 2	MINUS 5	
<u>431 to 435</u>		MINUS 6	MINUS 3	MINUS 6	
<u>436 to 440</u>		MINUS 7	MINUS 4	MINUS 7	
<u>441 to 445</u>			MINUS 5		
<u>446 to 450</u>			MINUS 6		
<u>451 to 455</u>			MINUS 7		
<u>456 to 460</u>			MINUS 8		

General Rule of Thumb

- 1 As distances to outfield walls increases a hitter will hit fewer home runs.
- 2 As height of the outfield wall increases a hitter will hit fewer home runs.
- 3 Left-handed hitters will most be affected by distances to RF and RCF with a moderate effect by the distance to CF and a small effect by the distance to LF and LCF.
- 4 Right-handed hitters will most be affected by distances to LF and LCF with a moderate effect by the distance to CF and a small effect by the distance to RF and RCF.
- 5 Switch-hitters will be most affected by distances to LF, LCF, RCF, RF and moderately affected by distances to CF.
- 6 all hitters will be affected by the height of the outfield walls
- 7 The distance to the outfield wall may increase or decrease a hitter's chances of hitting a home run but increases to the outfield wall height above the minimum will only decrease the chances of a hitter hitting a home run.

Wall Height Effects

	LF	LCF	CF	RCF	RF
<u>6 to 8</u>	NO Effect	NO Effect	NO Effect	NO Effect	NO Effect
<u>9 to 12</u>	MINUS 1	MINUS 1	MINUS 1	MINUS 1	MINUS 1
<u>13 to 15</u>	MINUS 2	MINUS 2	MINUS 2	MINUS 2	MINUS 2
<u>16 to 20</u>	MINUS 3	MINUS 3	MINUS 3	MINUS 3	MINUS 3
<u>21 to 25</u>	MINUS 4	MINUS 4	MINUS 4	MINUS 4	MINUS 4
<u>25 to 37</u>	MINUS 5	MINUS 5	MINUS 5	MINUS 5	MINUS 5

NOTE

- the maximum increase to home run occurrence is 30%
 - the maximum reduction to home runs is 30%
 - the maximum impact of wall distances is plus 25% or minus 25%
 - the maximum impact on wall heights is minus 25%
- ... if you build a hamster cage with really high walls you can effectively cancel the impact of having a short distance to the walls

For every +/- 1 there is a 5% increase (PLUS) or decrease (MINUS) to the likelihood of a home run being hit. A rating of EVEN means there is no adjustment to the home run numbers hit for hitters and allowed for pitchers.

For example, a hitter playing all 162 games in a park rated +5 to all fields would be 25% (plus 5 x 5%) more likely to hit home runs than he would in a ballpark rated EVEN. Similarly, a pitcher in one of these ballparks would be expected to give up 25% more home runs than a pitcher in a home run neutral (EVEN) ballpark.