

# Ron Brendel's Extra Innings ERA Adjustment Chart

1978 Northwest League

Singles	Homeruns	Triples	Doubles	ERA
-30	-2	-1	-5	-1.46
-29	-2	-1	-5	-1.52
<b>-28</b>	<b>-2</b>	<b>-1</b>	<b>-5</b>	<b>-1.60</b>
<b>-27</b>	<b>-2</b>	<b>-1</b>	<b>-4</b>	<b>-1.68</b>
-26	-2	-1	-4	-1.75
-25	-2	-1	-4	-1.81
-24	-2	-1	-4	-1.88
-23	-2	-1	-4	-1.95
<b>-22</b>	<b>-2</b>	<b>-1</b>	<b>-4</b>	<b>-2.10</b>
<b>-21</b>	<b>-1</b>	<b>-1</b>	<b>-3</b>	<b>-2.26</b>
-20	-1	-1	-3	-2.33
-19	-1	-1	-3	-2.41
-18	-1	-1	-3	-2.48
-17	-1	-1	-3	-2.60
<b>-16</b>	<b>-1</b>	<b>0</b>	<b>-3</b>	<b>-2.75</b>
<b>-15</b>	<b>-1</b>	<b>0</b>	<b>-2</b>	<b>-2.85</b>
-14	-1	0	-2	-2.94
-13	-1	0	-2	-3.02
-12	-1	0	-2	-3.11
-11	-1	0	-2	-3.20
<b>-10</b>	<b>-1</b>	<b>0</b>	<b>-2</b>	<b>-3.31</b>
<b>-9</b>	<b>-1</b>	<b>0</b>	<b>-1</b>	<b>-3.42</b>
-8	-1	0	-1	-3.59
-7	0	0	-1	-3.75
-6	0	0	-1	-3.85
-5	0	0	-1	-3.95
<b>-4</b>	<b>0</b>	<b>0</b>	<b>-1</b>	<b>-4.07</b>
<b>-3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-4.20</b>
-2	0	0	0	-4.30
-1	0	0	0	-4.40
<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-4.50</b>
1	0	0	0	-4.61
2	0	0	0	-4.71
<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-4.85</b>
<b>4</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>-4.98</b>
5	0	0	1	-5.09
6	0	0	1	-5.20

Singles	Homeruns	Triples	Doubles	ERA
7	0	0	1	-5.40
8	1	0	1	-5.61
<b>9</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>-5.75</b>
<b>10</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>-5.90</b>
11	1	0	2	-6.02
12	1	0	2	-6.14
13	1	0	2	-6.26
14	1	0	2	-6.39
<b>15</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>-6.67</b>
<b>16</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>-6.89</b>
17	1	1	3	-6.95
18	1	1	3	-7.08
19	1	1	3	-7.21
20	1	1	3	-7.35
<b>21</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>-7.61</b>
<b>22</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>-7.88</b>
23	2	1	4	-8.02
24	2	1	4	-8.16
25	2	1	4	-8.30
26	2	1	4	-8.44
<b>27</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>-8.62</b>
<b>28</b>	<b>2</b>	<b>1</b>	<b>5</b>	<b>-8.80</b>
29	2	1	5	-8.95
30	2	1	5	-9.09
31	2	1	5	-9.24
32	2	1	5	-9.39
<b>33</b>	<b>2</b>	<b>1</b>	<b>5</b>	<b>-9.58</b>
<b>34</b>	<b>2</b>	<b>1</b>	<b>6</b>	<b>-9.77</b>
35	2	1	6	-10.03
36	3	1	6	-10.30
37	3	1	6	-10.46
38	3	1	6	-10.62
<b>39</b>	<b>3</b>	<b>1</b>	<b>6</b>	<b>-10.82</b>
<b>40</b>	<b>3</b>	<b>1</b>	<b>7</b>	<b>-11.02</b>
41	3	1	7	-11.18
42	3	1	7	+

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Walk	+/- ERA
1-1-1	+1.04
1-1-2	+1.00
<b>1-1-3</b>	<b>+0.96</b>
<b>1-1-4</b>	<b>+0.92</b>
1-1-5	+0.87
1-1-6	+0.83
1-2-1	+0.78
1-2-2	+0.75
<b>1-2-3</b>	<b>+0.71</b>
<b>1-2-4</b>	<b>+0.67</b>
1-2-5	+0.62
1-2-6	+0.58

Walk	+/- ERA
1-3-1	+0.54
1-3-2	+0.50
<b>1-3-3</b>	<b>+0.46</b>
<b>1-3-4</b>	<b>+0.41</b>
1-3-5	+0.37
1-3-6	+0.33
1-4-1	+0.29
1-4-2	+0.25
<b>1-4-3</b>	<b>+0.21</b>
<b>1-4-4</b>	<b>+0.16</b>
1-4-5	+0.12
1-4-6	+0.08

Walk	+/- ERA
1-5-1	+0.04
<b>1-5-2</b>	<b>No Change</b>
<b>1-5-3</b>	<b>-0.05</b>
<b>1-5-4</b>	<b>-0.09</b>
1-5-5	-0.13
1-5-6	-0.17
1-6-1	-0.21
1-6-2	-0.25
<b>1-6-3</b>	<b>-0.30</b>
<b>1-6-4</b>	<b>-0.34</b>
1-6-5	-0.38
1-6-6	-0.42

Walk	+/- ERA
2-1-1	-0.46
2-1-2	-0.51
<b>2-1-3</b>	<b>-0.55</b>
<b>2-1-4</b>	<b>-0.59</b>
2-1-5	-0.63
2-1-6	-0.67
2-2-1	-0.71
2-2-2	-0.76
<b>2-2-3</b>	<b>-0.80</b>
<b>2-2-4</b>	<b>-0.84</b>
2-2-5	-0.88
2-2-6	-0.92

Add or subtract adjustment to pitcher's ERA based on his walk rating. Eg., Pitcher has ERA of 2.98 and Walk Rating of 1-4-4: add 0.16 to 2.98 and get adjusted ERA of 3.14. Pitcher falls into the 3.12-3.20 range of the ERA Chart. He will subtract 11 singles, reduce 1 homerun to a single, make no change to triples, and reduce 2 doubles to singles.