

Wind Constant Calculator Instruction

The purpose of the Wind Constant Calculator is to provide a means to obtain wind constants for your specific caliber, projectile and velocity when you are using the formula:

$$\frac{\text{Wind value (mph)} \times \text{Yards in Hundreds}}{\text{Constant}} = \text{MOA Correction}$$

Example: 6 Dasher, 105 Berger Hybrid Target @ 2950 fps. You estimate a 9 mph left to right wind on a 600 yard target. Your wind constant for this load at this range is 18.

$$\frac{9 \times 6 \text{ (600 yards)}}{18} = 3 \text{ MOA left or .9 Mils}$$

For those using Mils: **MOA correction x .3 = Mil correction**

Once the wind constant is obtained, it's good for any velocity wind. Let's for example say the wind died down to 4 mph, same target.

$$\frac{4 \times 6}{18} = 1.3 \text{ MOA left or .4 Mils}$$

Using the Wind Constant Calculator, here's how to obtain your own wind constant:

TYPE IN YOUR METRICS BELOW

DISTANCE (YARDS)
200 Enter yards in 100 yard increments

WIND VELOCITY (MPH)
10 Enter wind velocity

SOFTWARE PRODUCED MOA CORRECTION
1.1 Enter ballistic app MOA wind correction for the above wind

TRUE CONSTANT
18.18 Will auto-populate

TRUE WIND DRIFT (INCHES)
2.3 Will auto-populate

FIELD CONSTANT
18 Adjust Field Constant to meet your personal wind drift deviation limit

FIELD CONSTANT PRODUCED WIND DRIFT (INCHES)
2.33 Will auto-populate

DEVIATION FROM TRUE WIND DRIFT
0.03 Will auto-populate

TYPE IN YOUR METRICS BELOW

DISTANCE (YARDS)

600

WIND VELOCITY (MPH)

10

SOFTWARE PRODUCED MOA CORRECTION

3.7

TRUE CONSTANT

16.22

TRUE WIND DRIFT (INCHES)

23.24

FIELD CONSTANT

18

FIELD CONSTANT PRODUCED WIND DRIFT (INCHES)

20.94

DEVIATION FROM TRUE WIND DRIFT

-2.3

For the Dasher load used as an example for the above, a field constant of 18 is still applicable for 600 yards if your acceptable deviation from true wind drift is + - 2.5 inches. Once outside that though, you'll need to adjust the field constant to meet your acceptable deviation.

TYPE IN YOUR METRICS BELOW

DISTANCE (YARDS)

1000

WIND VELOCITY (MPH)

10

SOFTWARE PRODUCED MOA CORRECTION

7.1

TRUE CONSTANT

14.08

TRUE WIND DRIFT (INCHES)

74.34

FIELD CONSTANT

14

FIELD CONSTANT PRODUCED WIND DRIFT (INCHES)

74.79

DEVIATION FROM TRUE WIND DRIFT

0.45

1000 yard constant

YDS	ELEV	TOF	YDS	ELEV	TOF
200	.4	.22	750	4.8	.98
250	.7	.27	800	5.4	1.06
300	1	.33	850	6.0	1.15
350	1.3	.40	900	6.6	1.24
400	1.7	.46	950	7.2	1.34
450	2.1	.53	1000	7.9	1.44
500	2.5	.60	1050	8.6	
550	2.9	.67	1100	9.4	
600	3.4	.74	1150	10.2	
650	3.8	.81	1200	11	
700	4.3	.90			

Wind Constant

18 (0-600) **15** (700-900)

14 (1000-1100) **13** (1200-1300)

wind velocity x yards (100s) ÷ constant = MOA x .3 = Mil

Sample come-up / wind constant reference chart. The goal is to use the same wind constant number as far out as possible and staying within your own acceptable wind drift deviation.