

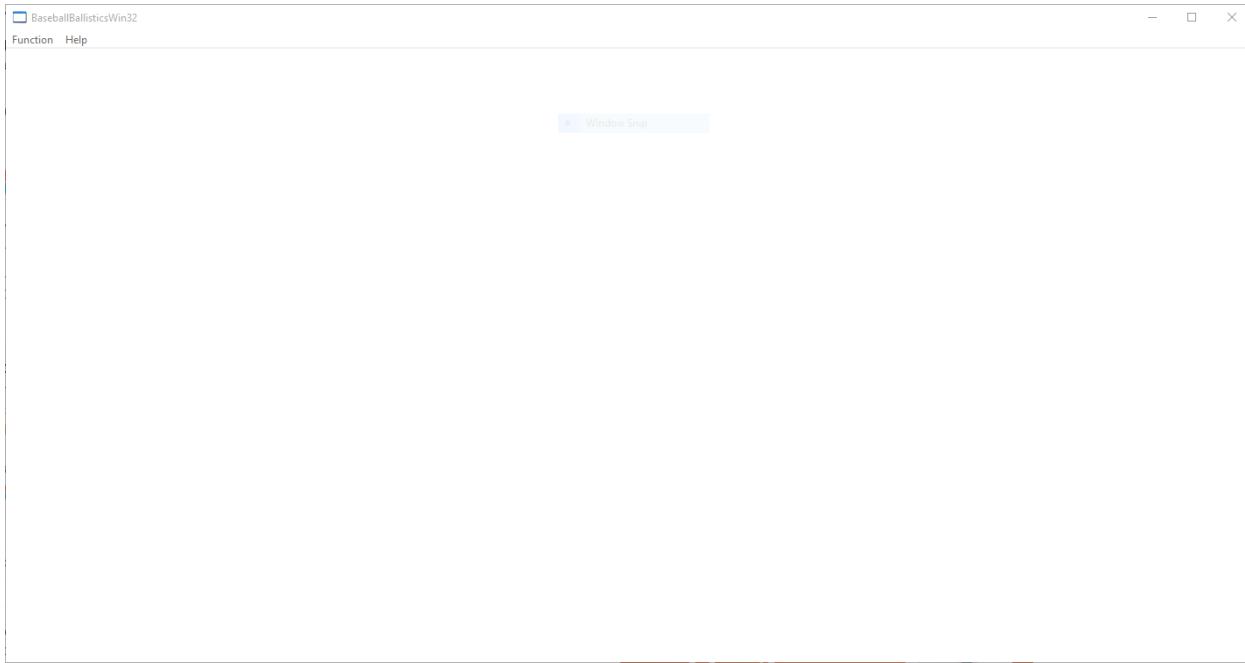
Blog Entry © Saturday, May 25, 2025, Return to Baseball Ballistics by James Pate Williams, Jr. BA, BS, Master of Software Engineering, PhD Computer Science Return to Baseball Ballistics

I translated my baseball ballistics C/C++ Win32 console application to a Win32 C/C++ Desktop Graphical User Interface application. The main window has three Function menu items which are:

1. Analytic
2. Classic
3. Numeric

The best online reference that I have been able to find is:

[04-LAJPE-782 Chudinov.pdf](#)



The “Analytic” dialog after pressing the “Table” button is:

Ballistics Dialog X

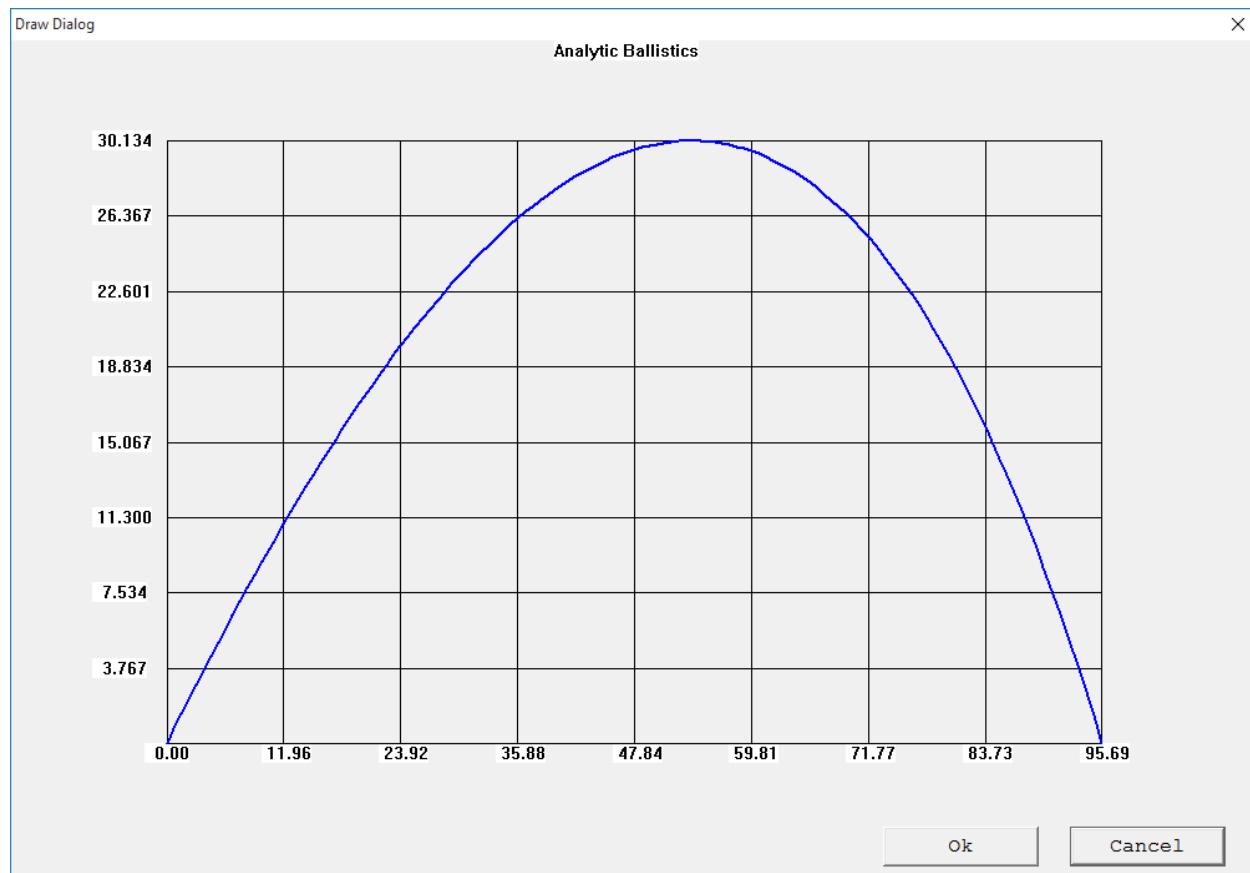
Ballistics Input

Drag k	0.000625
V0 m/s	40.000000
Angle	45.000000

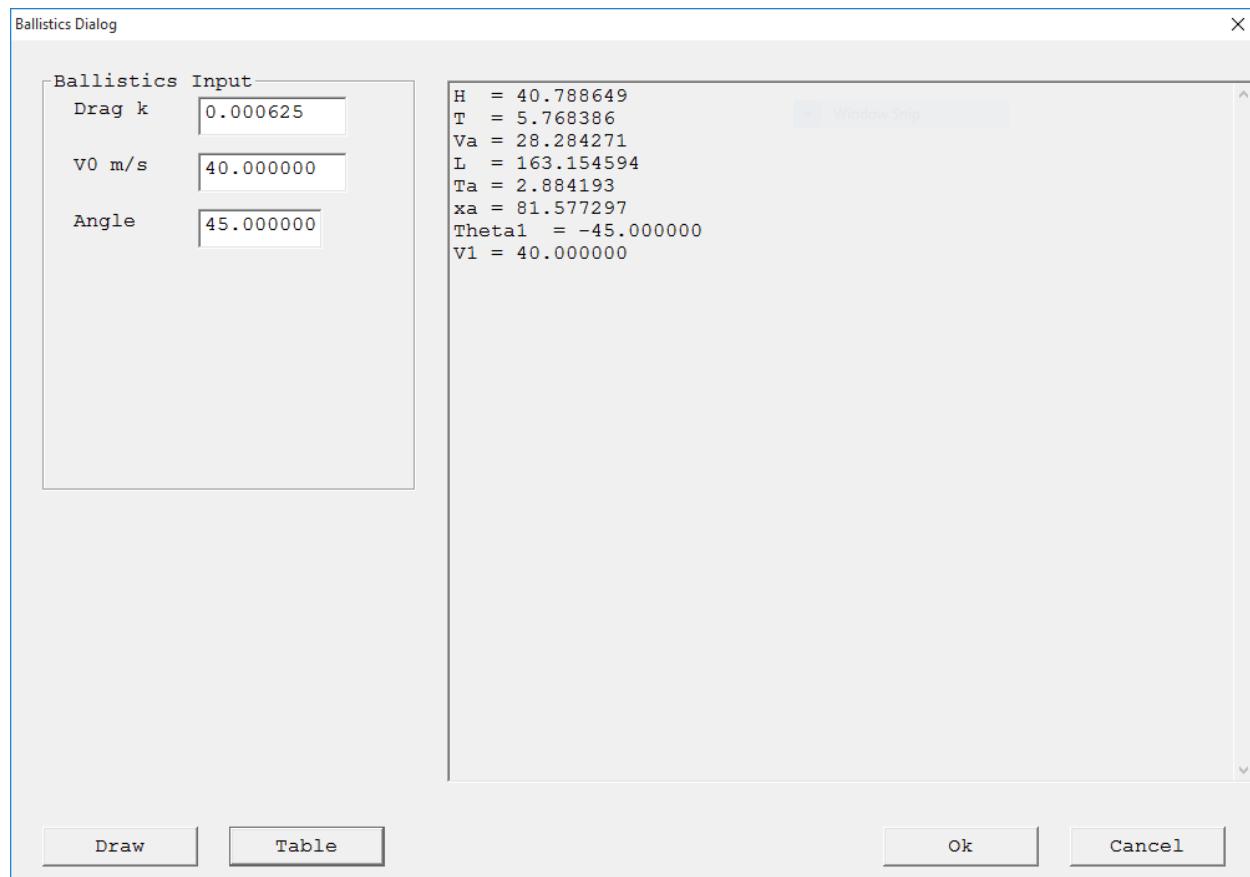
H = 30.134495
T = 4.958115
Va = 19.299618
L = 95.689733
Ta = 2.297313
xa = 53.698807
Theta1 = -58.555084
V1 = 25.998419

Window Snip

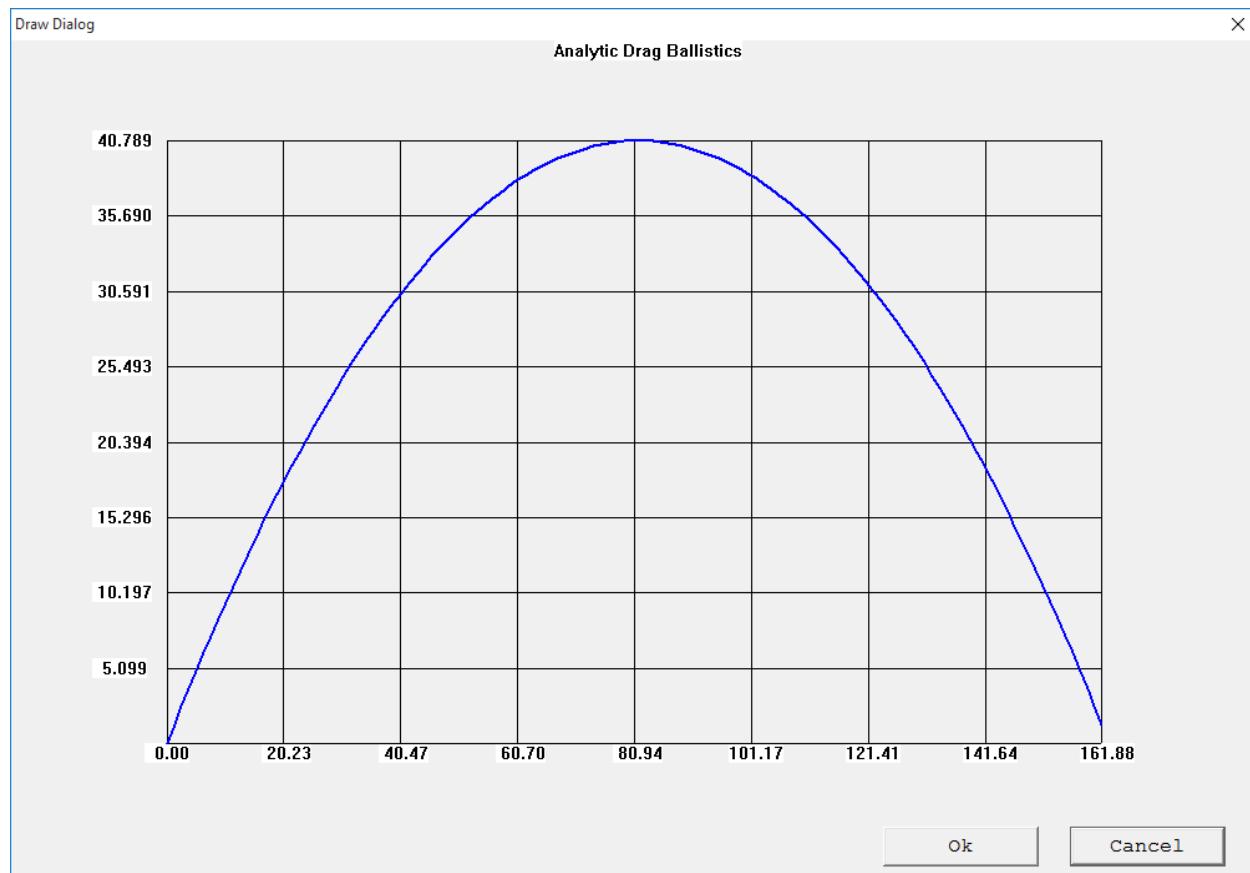
Draw Table Ok Cancel



Next, we have the “Classic” function dialog:



Unfortunately, I mislabeled the graph dialog in this case.



Last is the “Numeric” functionality which uses a Runge-Kutta fifth order method:

Ballistics Dialog X

Ballistics Input

Drag k	<input type="text" value="0.000625"/>
V0 m/s	<input type="text" value="40.000000"/>
Angle	<input type="text" value="45.000000"/>

H = 29.825602
T = 4.915000
Va = 19.301233
L = 96.112304
Ta = 2.311000
xa = 53.050084
Theta1 = -57.272918
V1 = 25.530379

Draw Table Ok Cancel

