



Walkthrough

Quick & easy figures to try out the app!

CALCULATORS



EXPLOSIVES
PER
BOREHOLE

Calculates pounds of explosives per borehole

Construction

3.0" diameter

30' powder column

.95 density (anfo)

Quarry

6.5" diameter

42' powder column

.95 density (anfo)



ROCK
PER
BOREHOLE

Calculates rock per borehole in tons or cubic yards

Construction (yards)

7' burden

12' depth

7' spacing

Quarry (tons)

16' burden

50' depth

16' spacing

.084 tons per cubic foot rock weight



GROUND
VIBRATION
PREDICTION

Calculates ground vibration prediction

Bituminous Coal Worst Case: 1500' distance 600 lbs.

Bituminous Coal Average: 1500' distance 600 lbs.

Construction Worst Case: 50' distance 1.5 lbs.

Construction Best Case: 25' distance 5 lbs.

Construction Trenching: 50' distance 1 lb.

Quarry Production Worst Case: 1500' distance 600 lbs.

Quarry Production Average: 1500' distance 600 lbs.

Custom: Insert custom figures



BOREHOLE
ANGLE
DRIFT

Calculates angle of borehole

Example: 50' face height with burdens of 15' (top) and 27' (bottom)

50' face height

15° angle



POWDER
FACTOR

Calculates powder by tons per pound or pounds per yard

Copy end results from previous Explosives per Borehole and Rock per Borehole calculations

Construction

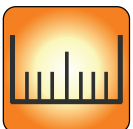
87.34 lbs. explosives

21.78 cubic yards rock

Quarry

574.01 lbs. explosives

1,075.2 tons rock



SCALED
DISTANCE

Calculates pounds of explosives for scaled distance

Example: Scaled distance of 30

Construction

30 scaled distance

100' distance

Quarry

30 scaled distance

1,000' distance



AIRBLAST
PREDICTION

Calculates airblast prediction

133 dBL maximum Pennsylvania state regulation

Use previous figures from Scaled Distance

Construction

100' distance

11 lbs.

Quarry

1,000' distance

1,111 lbs. explosives

TOOLS



Set number of holes, then tap or drag finger to create delay sequences . App shows doubles in red. Turn on heat map to visualize shot. Save layouts to projects.



Save any previous calculation to current or previous project, then easily load it at any time. App will automatically detect your location with GPS and use this information to store each individual project within the app. Return to the same location at any time and app will automatically know the project or site at which you are.



Example: After using Borehole Angle Drift calculator, lay level against drill steel to determine constant proper angle during drilling



Displays custom timer throughout app and notifies by alarm when timer is complete



Provides coordinates and information regarding your current location



Provides coordinates and information regarding your current location



Basic calculator included so you don't have to leave the app



Set your preferences

RESOURCES



Tips how to use the app, plus quick links to:

- MSHA: Safety Standards
- OSM: Office of Surface Mining
- ATF: Explosives Storage Requirements
- ISEE: International Society of Explosives Engineering
- Regulations for individual states, including PA, NJ, NY and more.