

Understanding How to Read and Convert Latitude and Longitude Coordinates

Decimal Degrees

N 39.3476° by W 77.4742°

Degrees, Minutes, and Seconds

N 39° 20' 51" by W 77° 28' 27"



Degrees, Decimal Minutes (to the Hundredth)

N 39° 20.85' by W 77° 28.45'

Degrees, Decimal Minutes to the Hundredth is the US Standard format for emergency services.

These Marks need to be read when communicating coordinates.

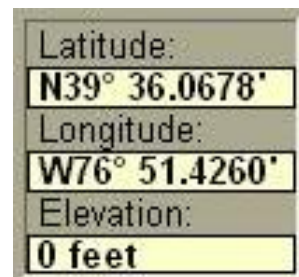


° = Degrees ' = Minutes " = Seconds . = Decimal

Since the US is in the Northern Western Hemisphere our coordinates will always be North Latitude and West Longitude. West Longitude can be expressed as a negative (-) such as $-77^{\circ}28'27''$.

This would be read as follows:

**North 39 Degrees, 36 Decimal 0678 Minutes by
West 76 Degrees, 51 Decimal 4260 Minutes**

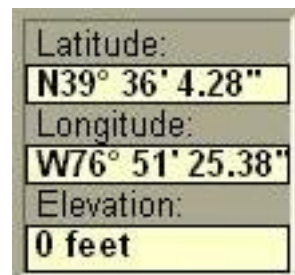


Pronounce each digit individually to be clear in communication

**North three nine degrees, three six decimal zero six seven eight minutes by
West seven six degrees, five one decimal four two six zero minutes**

This would be read as follows:

**North 39 Degrees, 36 Minutes, 4 Decimal 28 Seconds by
West 76 Degrees, 51 Minutes, 25 Decimal 38 Seconds**



Pronounce each digit individually to be clear in communication

**North three nine degrees, three six minutes, four decimal two eight seconds by
West seven six degrees, five one minutes, two five decimal three eight seconds**

To convert Decimal Degrees to Degrees Decimal Minutes: N 39.3476° by W 77.4742°

Take the decimal section and multiply by 60. - .3476 X 60 = 20.856 and .4742 X 60 = 28.452

So the coordinate in decimal minutes would be N 39° 20.856' by W 77° 28.452'