

IN CASE OF EMERGENCY

As explained on the reverse side of this brochure, **just eight digits of a USNG coordinate** when called in to virtually any U.S. 911 center, will **describe a location with 33' accuracy**. ELMs leverage this concept to allow a user to tell responders the location of a life-threatening event quickly and effectively. The graphic below shows how to use an ELM when calling 911.

Fig. 1

Read numbers
left to right,
top row,
then bottom row



Fig. 2

Only read
text at top
if
requested

1. Dial 911, tell them your emergency, and then read the 8 large numbers (**Fig. 1**) to describe your location. These numbers are USNG coordinates. If requested by the dispatcher, also read the small numbers and letters at the top (**Fig. 2**).
2. Dispatchers can then quickly transmit your location to multiple agencies and responders in the area. Help is on the way!

SPREAD THE WORD

The USNG is the best location system in the world. It is easy, fast and free to use.



The U.S. National Grid Institute (USNGI) is committed to promoting USNG use in every corner of the USA to maximize efficiency in saving lives:

- In emergency response
- In disaster response
- In fighting infectious disease
- In demographic data analysis

GET READY FOR AN EMERGENCY!

The USNGI encourages everyone to have a USNG app on their cell phone and know how to use it.

Examples: www.USNGapp.org and FindMeSAR.com

See also apps available in online stores such as USNG Me and MyUSNG.

To obtain copies of this brochure or learn more about USNG and related tools, see the USNGI website:

www.usngi.org

(Look for: "USNG Brochure")

WHERE ARE YOU?

~ Be ready to answer that question when you are lost or need HELP ~

Just give 'em the grid!

(U.S. National Grid)



In an emergency, you don't need to describe your surroundings, just **give responders your U.S. National Grid (USNG) coordinates**. Endorsed by FEMA and multiple other federal and state organizations tasked with the Search and Rescue (SAR) mission, USNG is nationally recognized as the best way to communicate location of an incident because of its simplicity, utility and seamless integration with GPS capabilities now found on every cell phone and most other mobile devices.

USNG is the perfect location reporting system for trails, parks and other places without formal street addresses.

WHAT IS THE USNG?

The USNG does not replace street names and addresses – it complements them.

The USNG is like the Military Grid Reference System (MGRS) – a location referencing and reporting system used by U.S./NATO Armed Forces for ground operations around the world because it is much easier to use accurately and less prone to human errors than latitude and longitude.

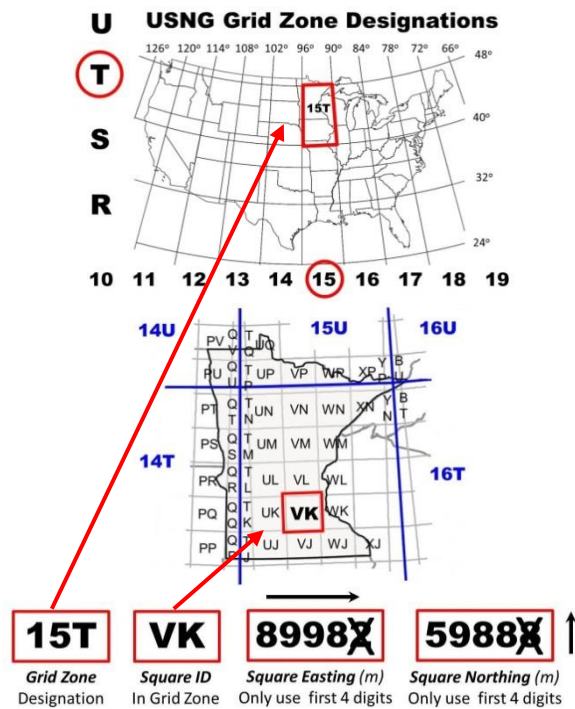
GPS receivers use signals from a constellation of satellites to determine precise location information.

When used together, USNG and GPS are an unbeatable combination.



The USNG uses a string of up to 15 characters to describe a location. The first three characters are a **GRID ZONE** designation. Next, two letters identify a **100,000 meter SQUARE** (100 km, about 62 miles square) in the **GRID ZONE**. Then come distances in meters (m) from the **100 km SQUARE's** lower left corner, **RIGHT (Easting), THEN UP (Northing)!**

HOW THE USNG WORKS



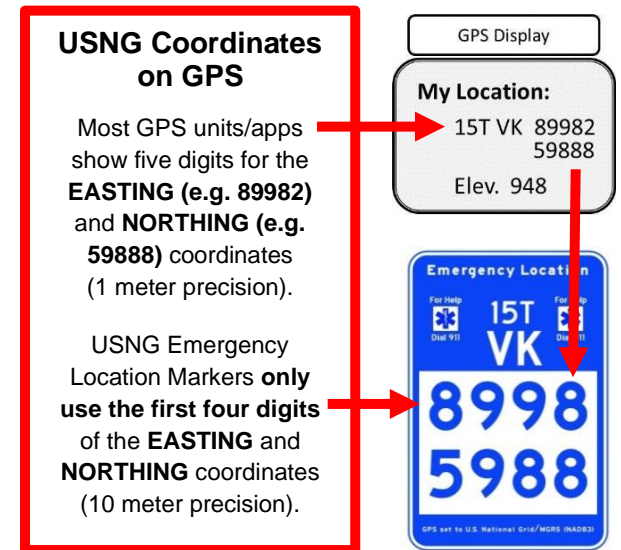
These numbers roughly equate to a percentage (%) of movement across a full square. The number of digits after the **SQUARE'S ID** determines the precision of the coordinate:

- **FOUR DIGITS:** 89 59 locates a point within a 1 km square (less than a mile).
- **SIX DIGITS:** 899 598 locates a point within a 100 m square (football field size).
- **EIGHT DIGITS:** 8998 5988 locates a point within a 10 m square or 33' (within a standard home).

TEN DIGITS: 89982 59886 locates a point within a 1 m square (a manhole cover).

USNG ELM MARKERS

USNG Emergency Location Markers
Many communities across the U.S., National Parks, and even the Cape Kennedy Space Center, have installed USNG based Emergency Location Markers (ELM) to give trail and parks users a way to report an emergency location. The graphic below shows the ELM relationship to GPS read out.



ELM-GPS Interface

As shown in the example above, the first four digits of a GPS display **Easting (8998)** and **Northing (5998)** will match the marker.

USNG/MGRS GPS Selection

If your GPS does not have USNG as an option, select MGRS and the North American Datum of 1983 (NAD83/WGS84) as your GPS default coordinate system to get on the USNG!