



# **EULESS CERT RADIO EMERGENCY COMMUNICATIONS PLAN**



Version 1.0

# Eules CERT Radio Emergency Communications Plan

Eules CERT Radio

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Version 1.0

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The Euless CERT Radio Communication Plans is an orientation and reference guide for members of the Euless CERT Radio. This guide includes information about Euless CERT Radio Communication operations, equipment, emergency operations, and other reference material.

The purpose of this communication plan is to provide the basic information needed to be a contributing member of Euless CERT Radio. It contains information on radio net meetings, activities, and reference materials aiding the Euless CERT Radio member in preparing to serve the City of Euless during emergency operations.

This guide also contains detailed information on frequency plans that aid in mutual aid communications with other local and county amateur radio organizations. We encourage you to use this information to prepare yourself and your radio equipment to serve during emergency events.

To download a copy of this guide, please visit the Euless CERT Radio website at [www.w5eul.com/cert](http://www.w5eul.com/cert). The guide is available in the Manuals section of the site.

Your comments are welcome at [certradio@w5eul.com](mailto:certradio@w5eul.com).

EULESS CERT RADIO

## **Who We Are**

Euleless CERT Radio is an association of members who have a common interest in the avocation of Amateur Radio and CERT. Our members have diverse interests. You will find among our ranks those who enjoy building their own radios and those who enjoy contacting other amateurs around the world, those who perform community service, and those who simply enjoy the chance to meet new people over the air.

## **What We Do**

Euleless CERT Radio holds monthly meetings on the third Wednesday of each month on the Amateur Radio Euleless W5EUL Repeater. These meetings are an opportunity for us to learn about the latest developments in Amateur Radio, practice operating on a net, further training in emergency communications, and to share information.

The R.A.C.E.S. members of Euleless CERT Radio also provide trained communications personnel (amateur radio operators) to assist the National Weather Service, and other similar community agencies, in providing communications support for sporting events and a variety of public service events. During disaster events ARE and RACES radio operators assist local, county, and state public service organizations by providing vital additional emergency communications capacity.

## **Supported Agencies**

City of Euleless Office of Emergency Management

Euleless Community Emergency Response Team (CERT)

National Weather Service

Fort Worth R.A.C.E.S

North Texas Amateur Radio Emergency Service - NTXARES



## **Training**

Eules CERT offers members training on a variety of subject throughout the year.

### Fort Worth RACES

Fort Worth RACES has a monthly training and check-in net on the 1st Monday of each month at 19:30 on the 146.940 repeater. During this net, only RACES members are allowed to check-in, however any one is free to listen. Throughout the year, Fort Worth RACES supports many public service events. These events allow operators to practice their skills, test their equipment, and participate in a controlled net.

[www.fortworthraces.org](http://www.fortworthraces.org)

### National Weather Service

National Weather Service conducts several Skywarn spotter training sessions per year. This training is required to participate in all RACES nets.

<https://www.weather.gov/fwd/skywarnsch?sptrsch>

### FEMA Training

FEMA offers independent study courses related to Emergency response at the local and national level.

The IS-100.b and IS-700.a are the minimum required classes to participate in RACES.

It is recommend that you also take IS-200.b and IS-800.b.

[www.training.fema.gov/IS/CRSLIST.aspx?all=true](http://www.training.fema.gov/IS/CRSLIST.aspx?all=true)

Communication Equipment

The following communications equipment may be used by Euless CERT Radio to communicate within Euless CERT Radio and/or to communicate with external parties.

- **Phone – Land Line or cell**

Phone contact will be made following the latest available copy of the Euless CERT Radio contact list, which is updated regularly and distributed.

- **Text Messaging (SMS)**

Text messaging will be made following the latest available copy of the Euless CERT Radio contact list, which is updated regularly and distributed.

- **E-mail**

E-mail will be used whenever possible to distribute information to CERT membership. Please check your E-mail regularly during an emergency. E-mail allows us to send information out to hundreds of members very quickly. If you do not yet have an E-mail account, please visit your local Library where you can get a free E-mail account and access to the Internet.

- **FRS Radios. Amateur Radio**

Radio contact between OEM and Team Leadership will be achieved by utilizing a combination of Ham Radio and GMRS/FRS radios. Cert members who are hams can exchange messages with the OEM CERT desk through the Amateur Radio Emergency Service. Cert Ham operators will in turn relay messages with Team Leaders via GMRS/FRS 2-way Radios. Teams without Hams will need to relay their messages through neighboring teams via GMRS/FRS radios. Local teams will use pre-assigned GMRS/FRS channels for communications within their neighborhood.

- **Runners**

Runners will exchange messages between OEM and Team Leaders at the Team Rally point. Team membership will muster at the team rally point for instructions. Large poster boards will be maintained at the rally point to serve the team in sharing current information and instructions.

## Basic Communications Go-Kit

A Go-Kit is a pre-staged collection of equipment and personal gear that you will need to perform your duties as an Emergency Communicator in the event of an activation. Your Go-Kit should be tailored to your needs, equipment, expected assignments, and expected length of assignments.

The Basic Communications Go-Kit should have everything you need for a short duration communications assignment. You should be able to use this kit mobile or on foot. This kit could be used for volunteer public service events.

A 24-hour kit should provide additional items needed for an overnight assignment.

A 72-hour kit should provide additional items needed for an extended assignment of up to three days.

### Basic Communications Go-Kit

- RACES ID Card
- 2m/70c Handheld Radio
- FRS Radio
- High Gain Antenna
- HT Speaker/Microphone,
- HT Earphone
- Extra Batteries for HT
- HT Power Cable
- HT Antenna Adapter
- HT Quick Reference Guide
- Flashlight w/extra batteries
- Pens/Pencils
- Small Notebook
- Personal First Aid Kit
- Personal Items as required (i.e. prescription medicine , eyewear care)
- Snacks
- Water

### Required Equipment

1. CERT Accountability Tags
2. Helmet
3. Work gloves
4. Safety Glasses or Goggles
5. Safety Vest
6. Snack
7. Water Bottle
8. Paper / Notepad
9. Pens (at least 2)
10. Permanent Marker (Sharpie)
11. Reference Materials
12. Flashlight
13. Extra Batteries
14. Radio
15. Pocket Knife or Multi-Tool
16. Personal First Aid Kit
  - a. 4x4 Gauze
  - b. Roller Bandages
  - c. Alcohol Swabs
  - d. Band-Aids
  - e. Emergency Blanket
  - f. Exam Gloves
  - g. Triangular Bandages (2)

### Suggested Equipment

1. Paracord
2. Permanent Markers (Red, Black, Green)
3. Matches / Lighter
4. Earplugs
5. Charging Cord / Battery Backup
6. Hard Hat Light / Headlamp
7. Whistle
8. Glow Sticks
9. Hand Sanitizer
10. Tourniquet
11. Duct Tape
12. Masking Tape
13. Rain Suit / Poncho
14. Zip Ties
15. Knee Pads
16. EMT Scissors
17. Zip Lock Baggies
18. Prescription Medication
19. Gas Shut Off Tool (Non-Sparking)
20. Over the Counter Medications
  - a. Pain Reliever (Tylenol / Advil / Aleve)
  - b. Anti-Histamine (Benadryl / Zyrtec / Claritin)
  - c. Anti-Diarrheal (Immodium)
  - d. TUMS or Rolaids
  - e. Antibiotic Cream (Neosporin)

RADIO NETS

### GOOD OPERATING PRACTICES

- Always operate in a responsible manner. Remember that others are listening. Never interfere with the operations of another station.
- NEVER RELAY PERSONAL INFORMATION ON THE AIR. (ie: patients name, birth date,)
- Never use profanity or CB lingo (e.g., “10-4”). Be considerate of inexperienced operators.
- Never transmit rumors. Your community will rely on you to supply complete and *accurate* information.
- Pause between transmissions so that others can break in with urgent matters.
- Never monopolize the channel, share it among *all* users. Keep transmissions *short*.
- Press the microphone button and pause *before* you start speaking, so your words are not cut off.
- Speak across the microphone (not directly into it) in normal voice. Speak slowly, clearly and distinctly.
- Maintain your equipment in good operating condition. Have spare batteries at hand.
- Over-modulated equipment or "noise toys" should never be used.
- Relay transmissions from stations with weak signals to others, if necessary.
- Keep your antenna in a vertical position.
- Hand held radios do not work really well in a car, use an external antenna for better reception.
- Monitor your radio for safety, accountability, and intra-team communications.
- Use a headset if you have one.
- Never put yourself in a situation where you endanger yourself or others. Never make the situation worse by your presence or operations.
- Never interfere with existing emergency services or groups. If another group is handling an emergency, let them handle it. Participate only if you are invited to do so.
- Assist anyone in your neighborhood to the best of your ability whether they participate in CERT or not.
- Sometimes the best thing you can do is simply monitor the channel for someone in need. Being there when someone needs assistance is more important than constantly advertising your availability.
- Get to know your neighbors and encourage them to join CERT. The more neighbors that are participating, the more the neighborhood will benefit. Help set up and maintain equipment for other people.
- Never leave a net without checking out with net control. This way they know you have left and will not call you or follow up to make sure you are ok when you do not reply to their call.

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## TACTICAL CALL SIGNS

Instead of using names, part of Net Operations is to use tactical call signs.

A tactical call sign is a designation assigned to a team or an individual based on function or location. Tactical call signs are assigned by a Net Control Operator and are made for the duration of an assignment.

Tactical call signs are used to identify a position. The person in that position could change several times and Net Control will not have to remember who is in that position.

FCC licensed services such as ham operators will add their official call sign to this exchange when and where required by FCC rules.

### TACTICAL CALL SIGNS – MAKING A CALL

To transmit and acknowledge calls using tactical call signs, follow these steps:

1. To make a call, give the other person's tactical call sign first, then your tactical call sign.  
\*\* Net Control, Red Team
2. To acknowledge a call, give the call sign of the person calling you, then say, "This is" then give your tactical call sign.  
\*\* Red Team, Net Control go ahead.
3. Next, transmit the message. Always identify yourself when you are transmitting the message.  
\*\* Red Teams needs more water at the corner of Elm and Maple.
4. The receiver should acknowledge receipt by identifying him- or herself, repeating the gist of the message.  
\*\* Ok Red Team needs water at Elm and Maple
5. The transmitter then terminates the message by identifying him- or herself and then giving your FCC Call Sign.  
\*\* Net Control, Red Team thank you W5EUL.

Always give your FCC Call Sign at the end of your conversation/message or every 10 minutes which ever is first.

### EXAMPLES OF TACTICAL CALL SIGNS

Net Control	IC	Medical	Supply
Search	Red Team	Ops	EOC



## AMATEUR RADIO NET PROTOCOL

A “Net” is an on-the-air meeting of amateur radio operators. Usually, the group’s discussion centers on particular topics and can be anything related to amateur radio or CERT. Nets are usually held on a regular basis on a pre-determined frequency.

Most nets are “**directed nets**” meaning there are certain rules that must be followed. One operator, acting as Net Control, is responsible for moderating the conversation and keeping order on the air. When on a directed net, you should not speak unless/until you are called on by Net Control. Think of it like a classroom – you must raise your hand and wait for the teacher to call on you before you address the class. Same thing on the air! You can imagine that if everyone spoke at once, there would be chaos.

When Net Control calls on you, you should address the group and close with your call sign. If you wish to address a comment to a particular person, you need to ask Net Control for permission first. If permission is granted, have your conversation with that person and then indicate that you are returning the frequency to Net Control.

So, you’re on a net and you want to speak up. How do you “raise your hand” on the air? Well, there are several options. Say -

“**BREAK BREAK**” – for when there is an emergency

“**Your Call Question**” – when you would like to ask a question

“**Your Call Comment**” – when you want to throw in your two cents

“**Your Call Info**” – when you can provide additional information or answer  
a question

Examples: W5EUL Question or W5EUL Info

ALWAYS, wait for Net Control to acknowledge you before speaking and give your call sign right away so everyone knows who is talking.

If a station calls “**BREAK BREAK**”, all other stations stand by and do not transmit until the emergency is over or unless net control asks you to do so.

AND, lastly, remember, to comply with FCC rules, you must identify yourself by call sign every 10 minutes and when you are finished speaking.

That’s all there is to it! The best advice says to listen to a few nets before jumping in to participate. You’ll get the hang of this in no time!

## Eules CERT Radio Net Control Script

### Preparations

Print these instructions along with the log sheet. Please keep the log sheet.

### Net Control Announcement

**If possible, conduct a “radio check” approximately 15 minutes and 2 minutes BEFORE** the start of the net to be sure that you can Tx/Rx adequately to proceed. Remember to ID every 10 min.

The Eules CERT Communications Team Net will begin in approximately 15 (2) minutes. This is **[call sign, first name]** your net control for the Eules CERT Communications Net.

### Net Control Preamble

Calling the Eules CERT Communications Net for

This is **[call sign, first name]** your net control for the Eules CERT Communications Net. (Pause for 5 seconds)

This is a directed net - all stations are asked not to transmit unless requested by net control. The only exception is for Emergency Traffic.

Is there any Emergency or Priority Traffic at this time? (Pause for 10 seconds)

Hearing none, if at any time there is an Emergency or Priority Traffic, come into the net with “BREAK BREAK”. All other stations are asked to standby until the Emergency is resolved. (Pause for 10 seconds)

### Net / Event Information

Provide information about the event and net. (This will come from briefings.)

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Back up net control is

This is **[call sign]** is \_\_\_\_\_ there any information that needs to be brought to the net before we begin check-ins?

## Net Check Ins

This is **[call sign]** your net control for the Eules CERT Communications Net.

When checking into the Net please provide your call sign phonetically, your name, and position you are working.

I will now start the check in for any Eules CERT Members. (copy all stations on the log sheet)

The Net recognizes (read list of call signs and names from log sheet.) Did I miss any stations? (Pause for 5 seconds)

This is **[call sign]** your net control for the Eules CERT Communications Net.

I will now start the check in for any other stations. (copy all stations on the log sheet)

The Net recognizes (read list of call signs and names from log sheet.) Did I miss any stations? (Pause for 5 seconds)

Are there any late or missed check-ins? If so please come now with your call sign and name.

The Net recognizes (read list of call signs and names from log sheet.) Did I miss any stations? (Pause for 5 seconds)

## Questions and Answers

Are there any questions for the net? If so please come now with your call sign.

This is **[call sign]** your net control for the Eules CERT Communications Net.

## Taking Traffic and Messages

This is **[call sign]** your net control for the Eules CERT Communications Net is there any traffic?

*Take messages and traffic as it is brought to the net and pass on to the proper person. Keep a log of all traffic you receive and the status of it. Answer questions and give feedback as needed. Conduct safety checks as needed on members.*

## Closing the Net

Are there any late check-ins? If so please come now with your call sign and name.

The Net recognizes (read list of call signs and names from log sheet.) Anyone else wishing to check in before we close the net? (Pause for 5 seconds)

We had a total of \_\_\_\_\_ stations check in.

Thanks everyone \_\_\_\_\_ for your help with this event.

This concludes tonight's Net, the repeater is now returned to normal use at **[DATE AND TIME]**.

This is **[call sign, first name]** net control for the Eules CERT Communications Net.

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# Eules CERT Radio Net Log Sheet



Date:

Start Time:

End Time:

#	Call Sign	Name	Notes
1			
2			
3			
4			
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Comments:

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### SET-UP OF RADIO OPERATING POSITION

#### CERT Division Command Post

These command posts are set up by each Division and are coordinated by the Division Supervisor. Each command post should have both an FRS/GMRS and high band radio position that will communicate on the Euless CERT Net (see “Position Descriptions”).

#### Division Command Post Radio Operator Set-up checklist

- Check out safety of location: odor of gas, electrical hazards, and structural integrity if in building or collapse zone.
- Away from generators or other loud noises.
- Consider needs for several hours of occupancy by the radio operator and the scribe working there.
- Operator sets up radios, high band antenna and power supply.
- Operator listens first to Euless CERT Net. Asks if there is a Net Control Station. If no answer, command post will assume Net Control position until properly relieved by a Net Control Operator assigned by the Communications Coordinator.
- Check in to the Euless CERT net for the Division in which you are operating, citing the name of the acting Division Supervisor.
- This position has two radios, an FRS/GMRS for the division traffic and a high band Kenwood radio for Euless CERT Radio Net communications.
- Consider having a volunteer monitor the FRS/GMRS traffic on their own radio to make sure nothing is missed. The command post Radio Operator needs to be aware of what is being passed on the net.
- Initially, take only reports of damage that can be considered EMERGENCY threats to life and property as defined by the criteria of the Message Ranking component of this plan.
- Have any teams communicating with FRS/GMRS radios check in once every 15 minutes with their location and status. Ask fatigued teams to return to command post for rest.
- If not immediately occupied with radio traffic, prepare a listing of available resources—people and equipment (e.g.: name, current location, equipment available such as radios, tools, medical supplies, heavy-duty vehicles, generators, etc.)
- Do not transmit personal information over the air.

### EULESS CERT NET CONTROL

This position coordinates traffic between the Division Command Posts and relays any priority traffic to a CERT radio operator via message form and runner (see “Position Descriptions”).

#### Eulesse CERT Net Control Radio Set-up Checklist

- Check safety of location: odor of gas, electrical hazards, and structural integrity if in building or collapse zone.
- Away from generators or other loud noises
- Proximity to Eulesse RACES operator
- Consider needs for several hours of occupancy by the radio operator and the scribe working there.
- Operator sets up radio, high band antenna and power supply.
- Operator listens first to Eulesse CERT Net to see if frequency is in use by higher authority.
- “Directed Net” protocol will apply (see following example transmission).
- Request that stations report in with the information listed on Radio Log. Complete all data fields on log sheet. This record will become very important as the disaster progresses. If forms are unavailable, any paper will do, as long as it contains the data sets from the forms (to, from, date, time, message and your signature).
- Command Post Radio Operators should be instructed to check in once every 30 minutes with their location and status (update the roll call as often as necessary to maintain an accurate accounting of communications resources).
- Fatigued Command Post Radio Operators are to be asked to switch to their alternate operator and to take a rest.
- Instruct everyone to remain on frequency unless otherwise directed by Net Control. Using your FCC call sign and tactical call sign, identify yourself frequently
- Do not gossip or spread unconfirmed information
- Do not transmit personal information over the air

MESSAGES

### ESTABLISHING PRECEDENCE OF MESSAGE TRAFFIC

The PRECEDENCE or RANKING assigned to a formal message is the responsibility of the originator of the message; in this case the CERT Division Incident Commander. The originator must weigh subject matter and the time factor involved when deciding on precedence. By assigning precedence, the originator tells handling operators in what order the message will be handled and denotes the urgency of the information to the addressee.

- a. **EMERGENCY (a.k.a. IMMEDIATE OR FLASH).** This precedence is reserved for messages of extreme urgency relating to situations gravely affecting security. **EMERGENCY** messages are to be handled as fast as humanly possible, ahead of all other messages, with in-station handling time not to exceed 10 minutes. Messages of lower precedence are interrupted on all circuits involved until the handling of **EMERGENCY** messages is completed. Examples include widespread civil disturbance, reports of or warning of grave natural disaster and requests for fire or medical assistance.
- b. **PRIORITY.** This precedence is reserved for traffic requiring expeditious action by the addressee or for conducting operations in progress when **ROUTINE** precedence will not suffice, but not of sufficient gravity to class as an emergency. Examples include requests for supplies or equipment during an in-progress operation, time-critical items requiring quick response and situation reports. They are to be handled as quickly as possible, with an in-station handling time not to exceed 6 hours.
- c. **ROUTINE.** This precedence is used for all types of message traffic justifying transmission by rapid means, but not of sufficient urgency to require higher precedence. Examples include any message that requires the documentation of its transmission or delivery; periodic reports. They should be handled as soon as traffic flow allows, but no later than the beginning of the next duty shift.

#### NOTE:

**In the event that a public safety official requests that CERT radio operators relay information or any message, this should be done according to the precedence, as assigned by the public safety requestor.**

### MESSAGE RANKING GUIDANCE

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Below is a list of priorities CERT Division Supervisors should follow when directing incident



information to ham radio operators during a disaster.

### **EMERGENCY:**

1. Any confirmed incident involving mass casualty and many injuries
2. Any incident involving the potential for large loss of life or mass casualties
3. Any incident involving many trapped victims needing rescue
4. Any other incident with the potential for mass casualty
5. Any incident involving hazardous materials that may require mass evacuation
6. Any incident involving large scale fires with extreme spread potential (example: into wildland areas, from one involved building to many other uninvolved buildings, mass evacuation needed)
7. Any incident involving property damage to essential services occupancies (example: public safety buildings, electrical facilities, hospitals, sewer systems)

### **PRIORITY:**

1. Any incident involving the confirmed or potential risk of long-term environmental damage (example: sewer leaks, hazardous materials incidents, flooding)
2. Any incidents involving severe damage to public safety, possible shelter or supply cache structures with no victim rescue concerns
3. Any other incident as deemed as a priority by the Division Incident Commander

### **ROUTINE:**

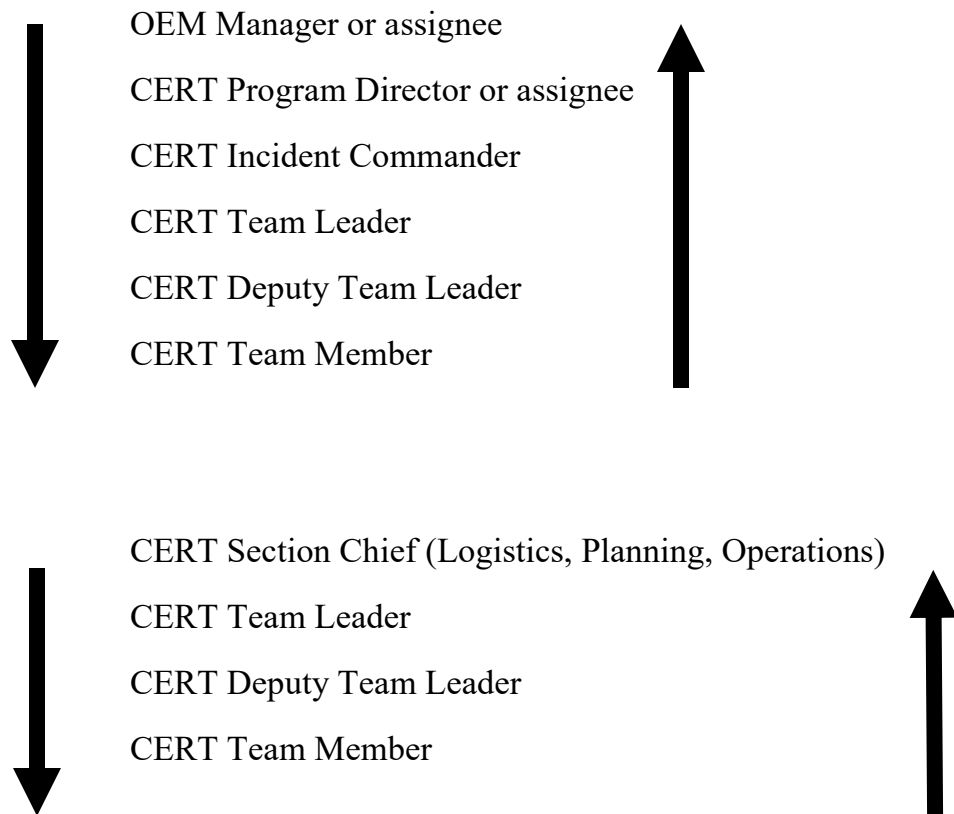
Casual, non-critical message traffic. For example, requests for eventual replenishment of supplies, non-urgent equipment, long-term shelter, etc., having little or no urgency for relay to other stations or to achieve resolution

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## FLOW OF MESSAGES

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Messages will flow up and down the Chain of Command outlined by ICS.



**HANDS ON:**

H – Have – What type of emergency do you Have? Is it a fire, accident with injury, medical emergency?

A – At – You are At location? An address or distance and direction from the nearest major intersection.

N – Need – What assistance do you Need? Fire and Rescue, Police Officer, or Ambulance?

D – Details – What Details will help responders?

**Effective CERT Radio Communication—Field Operators**

Effective radio communication requires that you gather all the essential information in your head before you start to speak; then establish contact, keep it short, and sign off when done.

Tick off “who, what, where, when, how” on one hand, to keep track of the essential elements:

“Who” = identify yourself

“What” = what’s happening

“Where” = where the incident is occurring

“When” = when action will be needed

“How” = how you want the situation handled

- Before transmitting, gather your thoughts, breathe, and listen for your frequency to be clear.
- Hold the radio upright and face the station you are calling (radio waves follow line of sight).
- Speak closely across the microphone, rather than straight into it. Wait to be acknowledged.
- Be brief. If your mind goes blank or you are interrupted, say, “Please stand by,” and release the PTT button. If the situation does not resolve within a few seconds, clear the frequency and do your thinking off the air: “Team 1A, out.” Don’t explain—just clear the frequency. Airtime is precious—use it sparingly.
- Be polite and patient, especially during a crisis. The pay-off is efficient communication.
- If you are unsure you are being heard, identify yourself and ask for a “signal check.”
- Sign off formally at the end of each conversation, so that your intention is obvious.

**Writing CERT Radio Messages—Division Command Post Operator**

An effective written radio message has five elements that you can tick off on the fingers of one hand:

1. To, From, Date, Time, Message (body text). The first four elements constitute the header.
2. Be precise with the “from” element—not just “CERT” but, e.g., “SMFD CERT Division 4B Red.”
3. For the date, use double-digit format, American order: November 10, 2008 would be 11-10-08.
4. For the time, use 24-hour military time, with double digits: Five after 4:00 p.m. would be 16:05.
5. If you want to specify a message number for your log, just use your date-time digits: Message #: 11-10-08 16:05. Add the “from” element, if that’s clearer: “4B Red 11-10-08 16:05.”

For the message body, be succinct. If a field operator is excited, unfocused, and too wordy, summarize the message and get acknowledgement before committing it to paper.

Example:

- Operator in field: *“Command Post, this is Team 2A Yellow!”* (Waits for acknowledgement.)
- Division Command Post: *“Team 2A Yellow, go ahead.”*
- Operator in field: *“This is 2A Yellow. A huge tree came down on Homestead Avenue, and it’s a real mess! There are tangled wires all over the place, and the downpour is unbelievable! Cars are starting to back up in the road. You can see the root ball sticking up, and it looks like it was chopped in half by the big construction project on the property. Nobody can get by! It’s a good thing nobody was driving past when it fell! Umm, over!”*
- Division Command Post: *“Roger, 2A Yellow. We acknowledge a large tree down on Homestead with many fallen wires and blocked traffic. Can you give me an address or cross street? Over.”*
- Operator in field: *“Yeah, this is Team 2A Yellow. Umm, this is close to Gomez Way. Over.”*
- Division Command Post: *“Roger, 2A Yellow, we acknowledge a large tree and many fallen wires blocking the roadway on Homestead near Gomez. Please stand by a minute.”* Continuing, after consulting Command Post Supervisor or Operations Chief: *“Team 2A Yellow, this is Command Post. Stay away from the wires and start to cordon off the area. Give the wires a wide berth of about 100 feet. Stay away from any pooled water. Use extreme caution. Do you need help? Over.”*
- Operator in field: *“Command Post, Team 2A Yellow. No, negative, we have some ‘caution’ tape and will block off the area ourselves. We’ll be careful. Over.”*
- Division Command Post: *“Roger, Team 2A Yellow. Go ahead and block off the area. Please report back in when you’re done. Over.”*
- Operator in field: *“Acknowledged, Command Post, we’ll block off the area and report back when we’re done. Team 2A Yellow, out.”*
- Division Command Post: *“Command Post, standing by.”*

\*\*\*

You can now write down a brief message body: *“Large tree is down on Homestead Avenue near Gomez with many fallen wires, blocked traffic. Will cordon off area with tape.”*

When you need to transmit that message by radio farther up the command hierarchy, do it verbatim (word for word, not summarizing).

## **Nets Radio Terms**

Some common radio terms:

- “*Go ahead*” gives permission to proceed with radio “traffic” (message).
- “*Acknowledged*” means “got your message” or “received and understood.”
- “*Roger*” is radio slang for “acknowledged.”
- “*Over*” means you have finished speaking and expect a response.
- “*Out*” means you are finished and signing off for now. (Note: “*over and out*” is nonsense.)
- “*Clear*” means “out” and is often used by ham operators.
- “*Affirmative*” means “yes” and is sometimes easier to understand over the radio.
- “*Negative*” means “no” and is sometimes easier to understand over the radio.
- “*Correction*” means that you are about to transmit corrected information.
- “*Say again*” is a request for the calling party to repeat. You can also specify the portion you want repeated, such as “Say again all after ‘is flooding the street.’”
- “*Stand by*” asks the other party to wait briefly and not say anything. They may acknowledge by saying, “Team X, standing by.”

## Net Do's and Don'ts

- Clear, Concise, Accurate and Timely Communications
- Remember to be brief and give Net Control or emergency dispatchers and responders an opportunity to ask vital questions.
- Silence is Golden.

<p><b>What to do</b> Listen, Listen, Listen</p> <p>Think about what you will say before you transmit</p>	<p><b>Why we do</b> To ensure your transmission does not interfere with another communication To be aware of current Net condition and minimum reporting requirements To communicate effectively Minimum use of air time for report</p>
<p><b>Making the call</b> Say the call sign or tactical call sign of the station you are calling Followed by “this is” or “from” The call sign or tactical call sign of the calling station</p>	<p>Use of a standard procedure To understood reliably on the first call To be clear</p>
<p><b>Communicate</b> Speak clearly and with moderate speed Use plain English, no codes Repeat critical items for confirmation</p>	<p>To be understood To be fast To avoid confusion For accuracy</p>
<p><b>Use phonetics</b> Initial call to NCS Station identification on long exchanges For names or words that are not easily understood</p>	<p>To be clear To be accurate To be fast Following standard procedure</p>
<p><b>Emergency Traffic</b> Use the pro-word “Break Break” for life threatening emergencies or to enter a Net with Elevated Reporting Criteria Do not use “Break Break” for non-life threatening situations or for non-Elevated Reporting Criteria weather reports Be prepared to call 911 if possible and/or necessary</p>	<p>To convey emergency status of a life threatening situation For silencing the Net and quickest response Following a standard procedure</p>

# FREQUENCIES

# FRS FREQUENCIES

## Eules CERT Team FRS Radio Assignments

Please note that FRS radios should be set to Privacy Code 21

Channel #	Frequency	Assignment
1	462.5625	Neighborhood Watch to Responders
2	462.5875	CERT Team Leaders to Command
3	462.6125	CERT Planning Section
4	462.6375	CERT Logistics Section
5	462.6625	CERT Admin Section
6	462.6875	CERT Team Leader to Public Safety
7	462.7125	Safety Officer
8	467.5625	CERT OPS inter-Team Primary Channel
9	467.5875	RED Team
10	467.6125	GREEN Team
11	467.6375	WHITE Team
12	467.6625	ORANGE Team
13	467.6875	BLUE Team
14	467.7125	BROWN Team

## Privacy Codes CTCSS Tones in Hz

FRS 1	67.0	FRS 14	107.2	FRS 27	167.9
FRS 2	71.9	FRS 15	110.9	FRS 28	173.8
FRS 3	74.4	FRS 16	114.8	FRS 29	179.9
FRS 4	77.0	FRS 17	118.8	FRS 30	186.2
FRS 5	79.7	FRS 18	123.0	FRS 31	192.8
FRS 6	82.5	FRS 19	127.3	FRS 32	203.5
FRS 7	85.4	FRS 20	131.9	FRS 33	210.7
FRS 8	88.5	FRS 21	136.5	FRS 34	218.1
FRS 9	91.5	FRS 22	141.3	FRS 35	225.7
FRS 10	94.8	FRS 23	146.2	FRS 36	223.6
FRS 11	97.4	FRS 24	151.4	FRS 37	241.8
FRS 12	100.0	FRS 25	156.7	FRS 38	250.3
FRS 13	103.5	FRS 26	162.2		



# HRIG FREQUENCIES

## Tarrant County Standard Emcomm template

Location	Name	Frequency	Tone	Comments	Location	Name	Frequency	Tone	Comments
1	FTW PRI	146.94	110.9	RACES PRIM	38	TA6760	146.76	110.9	
2	FTW BU	146.76	110.9	RACES BACK	39	WS6780	146.78	131.8	DECATU
3	FTW SW	146.68	110.9	RACES SW	40	HU6780	146.78	114.8	Hunt-V
4	FTW SE	147.14	110.9	RACES NE	41	DA6880	146.88	110.9	Dal-Pri
5	FTW NE	147.1	110.9	RACES SE	42	DN6920	146.92	110.9	Den-Pri
6	FTW NW	145.11	110.9	RACES NW	43	TA6940	146.94	110.9	Ftworth
7	FTW UHF	444.1	110.9	RACES UHF	44	DA6960	146.96	110.9	Dal-Sec
8	FTW WIDE	442.4	110.9	CedarHill	45	KF6980	146.98	88.5	
9	FTW ALT1	146.84	110.9	RACES ALT 1	46	WS6980	146.98	192.8	BOYD
10	FTW ALT2	147.28	110.9	RACES ALT 2	47	GS7000	147	100	Gray-Pri
11	FTW TMS	444.1	100.0	RACES TMS	48	DA7040	147.04	136.5	Mesquite
12	FTW VAN1	444.1	103.5	OLD VAN	49	PR7040	147.04	110.9	
13	FTW VAN2	444.1	118.8	NEW VAN	50	TA7100	147.1	110.9	
14	REDCROS	147.42	146.2	Red Cross	51	DA7120	147.12	100	Rich
15	EOCBU	443.875	110.9	EOCBU	52	TA7140	147.14	110.9	E-TARRA
16	2M Call	146.52	N/A	VHF Call	53	CI7180	147.18	107.2	PARK VHF
17	70 Call	446.00	N/A	UHF Call	54	GS7220	147.22	100	COLLINSV
18	Euless	442.9	110.9	UHF Repeater	55	GS7280	147.28	107.2	Gray-Sec
19	EUL SV	146.55	N/A	VHF Simplex	75	DN7380	147.38	110.9	LAARK
20	EUL SU	446.66	N/A	UHF Simplex	76	DN1325	441.325	88.5	Denton
21	TA5110	145.11	110.9	NW-TARRA	77	RW1525	441.525	141.3	Rock-U
22	DN5170	145.17	110.9	Den-Sec	78	DA1925	441.925	110.9	W5EBQ
23	DA5190	145.19	110.9	KA5CTN	79	DA2400	442.4	110.9	CedarHil
24	DA5210	145.21	110.9	MARS	80	DA2625	442.625	110.9	Mesquite
25	DA5310	145.31	110.9	Mesquite	81	DA2650	442.65	110.9	Carrollt
26	CI5350	145.35	100	N5GI	82	DA2700	442.7	110.9	GARLAND
27	EL541E	145.41	110.9		83	CO2775	442.775	100	GAINESVI
28	FN5470	145.47	88.5	Fannin	84	DA2800	442.8	110.9	UTD
29	CK5490	145.49	85.4		85	CI3200	443.2	100	MERA UHF
30	JN5490	145.49	88.5		86	PR3250	443.25	110.9	
31	HU5490	145.49	167.9	COMMERCE	87	DN3525	443.525	118.8	Denton
32	DA6640	146.64	118.8	K5AHT	88	DA4025	444.025	110.9	WX50
33	DA6660	146.66	110.9	Garland	89	DN4050	444.05	110.9	DENTON
34	TA6680	146.68	110.9	SW-TARRA	90	DA4075	444.075	110.9	CARROLLT
35	DA6700	146.7	110.9	W5EBQ	91	TA4100	444.1	110.9	
36	DA6720	146.72	110.9	Irving	92	CI4250	444.25	79.7	PARK UHF
37	CI6740	146.74	110.9	MARC	93	GS4750	444.75	100	Grayson UHF

# HRIG FREQUENCIES

Location	Name	Frequency	Tone	Comments	Location	Name	Frequency	Tone	Comments
100	CI45125	444.5125	123	Celina	121	WIN910	144.91		WIN910
101	145.46	145.46		145.46	123	WIN930	144.93		WIN930
102	145.6	145.6		145.6	124	WIN950	144.95		WIN950
103	145.7	145.7		145.7	125	WIN970	144.97		WIN970
104	146.4	146.4		146.4	126	WIN990	144.99		WIN990
105	146.48	146.48		146.48	127	WIN010	145.01		WIN010
106	146.5	146.5		146.5	128	WIN030	145.03		WIN030
107	146.52	146.52		146.52	129	WIN050	145.05		WIN050
108	146.54	146.54		146.54	130	WIN070	145.07		WIN070
109	146.56	146.56		146.56	131	WIN090	145.09		WIN090
110	146.58	146.58		146.58	132	APRS-SEC	144.34		APRS-SEC
111	147.42	147.42		147.42	133	APRS-PRI	144.39		APRS-PRI
112	147.44	147.44		147.44	134	444.6	444.6		444.6
113	147.51	147.51		147.51	135	445	445		445
114	147.52	147.52		147.52	136	445.5	445.5		445.5
115	147.55	147.55		147.55	137	446.1	446.1		446.1
116	147.56	147.56		147.56	138	446.5	446.5		446.5
120	147.58	147.58		147.58	139	447	447		447

# EULESS FREQUENCIES

<b>COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET</b>							Frequency Band		Description	
ICS 217A							<b>VOICE VHF/UHF</b>		<b>Amateur Radio Euless</b>	
HRIG	Channel Configuration	Channel Name	Eligible Users/ Assignments	RX Freq N or W	RX Tone/ NAC	TX Freq W	N or W	Tx Tone/ NAC	Mode A, D, or M	Remarks
1	VHF REPEATER	FTW PRI	EARC/ARES/ RACES	146.9400 W	N/A	146.3400 W		110.9	A	TACTICAL NET
2	VHF REPEATER	FTW BU	EARC/ARES/ RACES	146.7600 W	N/A	146.1600 W		110.9	A	TACTICAL NET
3	VHF REPEATER	FTW SW	EARC/ARES/ RACES	146.6800 W	N/A	146.0800 W		110.9	A	TACTICAL NET
4	VHF REPEATER	FTW SE	EARC/ARES/ RACES	147.1400 W	N/A	147.7400 W		110.9	A	TACTICAL NET
5	VHF REPEATER	FTW NE	EARC/ARES/ RACES	147.1000 W	N/A	147.7000 W		110.9	A	TACTICAL NET
6	VHF REPEATER	FTW NW	EARC/ARES/ RACES	145.1100 W	N/A	144.5100 W		110.9	A	TACTICAL NET
7	UHF REPEATER	FTW UHF	EARC/ARES/ RACES	444.1000 W	N/A	449.1000 W		110.9	A	TACTICAL NET
8	UHF REPEATER	FTW WIDE	EARC/ARES/ RACES	442.4000 W	N/A	447.4000 W		110.9	A	TACTICAL NET
9	VHF REPEATER	FTW ALT1	RACES ALT 1	146.8400 W	N/A	146.2400 W		110.09	A	TACTICAL NET
10	VHF REPEATER	FTW ALT2	RACES ALT 2	147.280 W	N/A	147.880 W		110.9	A	TACTICAL NET
11	VHR REPEATER	FTW TMS	RACES TMS	444.100	N/A	449.100		100.0	A	TACTICAL NET
12	UHF REPEATER	FTW VAN1	EARC/ARES/ RACES	444.1000 W	103.5	449.1000 W		103.5	A	TACTICAL NET
13	UHF Repeater	FTW VAN2	EARC/ARES/ RACES	444.1000 W	118.8	449.1000 W		118.8	A	TACTICAL Net
14	VHF SIMPLEX	REDCROS	EARC/ARES/ RACES	147.420 W	N/A	147.420 W		146.2	A	TACTICAL SIMPLEX
15	UHF Repeater	EOCBU	EARC/ARES/ RACES	443.875	110.9	448.875 W		110.9	A	TACTICAL NET
18	UHF REPEATER	EULESS	EARC/ARES/ RACES	442.9000 W	N/A	447.9000 W		110.9	A	TACTICAL NET
19	VHF SIMPLEX	EUL SIMV	EARC/ARES/ RACES	146.5500 W	N/A	146.5500 W		N/A	A	TACTICAL SIMPLEX
20	UHF SIMPLEX	EUL SIMU	EARC/ARES/ RACES	446.5500 W	N/A	446.5500 W		N/A	A	TACTICAL SIMPLEX

## INCIDENT RADIO COMMUNICATIONS PLAN (ICS 205)

<b>1. Incident Name:</b> TC CERT Communications – Common Simplex Channels		<b>2. Date/Time Prepared:</b> Date: 6/24/2016 Time: 12:00		<b>3. Operational Period:</b> Date From: Date HHMM Time To: HHMM		<b>Date To:</b> Date Time From: HHMM				
<b>4. Basic Radio Channel Use:</b>										
Zone Grp.	Ch #	Function	Channel Name/ Trunked Radio System Talkgroup	Assignment	RX Freq N or W	RX Tone/NAC	TX Freq N or W	TX Tone/NAC	Mode (A, D, or M)	Remarks
	1	Local Communications	U_Local1	Local simplex ops - UHF	441. 025				A	Channel used for local simplex (UHF) ops
	2	Local Communications	U_Local2	Local simplex ops - UHF	441. 075				A	Channel used for local simplex (UHF) ops
	3	Local Communications	U_Local3	Local simplex ops - UHF	446. 025				A	Channel used for local simplex (UHF) ops
	4	Local Communications	U_Local4	Local simplex ops - UHF	446. 075				A	Channel used for local simplex (UHF) ops
	5	Local Communications	V_Local5	Local simplex ops - VHF	146. 460				A	Channel used for local simplex (VHF) ops [HRIG-101]
	6	Local Communications	V_Local6	Local simplex ops - VHF	146. 500				A	Channel used for local simplex (VHF) ops [HRIG-106]
	7	Local Communications	V_Local7	Local simplex ops - VHF	147. 440				A	Channel used for local simplex (VHF) ops [HRIG-112]
	8	Local Communications	V_Lcal8	Local simplex ops - VHF	147. 510				A	Channel used for local simplex (VHF) ops [HRIG-113]
<b>5. Special Instructions:</b> Simplex Communications Plan for participating TC CERT groups. Common simplex communications channels to be used for local team(s) communications independent of specific location of incident. Channels can be assigned to teams in any order dependent on specific communications requirements. Multiple teams may be assigned one channel. 'Ch#' is a reference value only; channels can be programmed into any channel bank but should be in order stated. V2.0 update based on UHF channel changes for compliance with the Texas VHF FM Society UHF Band Plan. v2.0 – KS5F										
<b>6. Prepared by (Communications Unit Leader):</b> Name:								Signature:		
<b>ICS 205</b>				<b>IAP Page</b>		Date/Time: 6/24/2016 12:00 PM				

# FREQUENCIES

## ARES® HF Net Frequencies

### North Texas Section ARES®

- 3860 KHz LSB for evening and night operations
- 7277.5 KHz LSB for morning and day operations

### Texas ARES®

- 3872 KHz LSB for evening and night operations
- 7285 KHz LSB for morning and day operations
- 7290 KHz LSB for Health and Welfare traffic

## NOAA Frequencies

Channel	Frequency
1	162.4
2	162.425
3	162.45
4	162.475
5	162.5
6	162.525
7	162.55

## National Simplex Frequencies

- 2m VHF            146.52
- 70cm UHF        446.00

## Citizens Band

Channel	Frequency	Channel	Frequency
1	26.965	21	27.215
2	26.975	22	27.225
3	26.985	23	27.255
4	27.005	24	27.235
5	27.015	25	28.245
6	27.025	26	27.265
7	27.035	27	27.275
8	27.055	28	27.285
9	27.065	29	27.295
10	27.075	30	27.305
11	27.085	31	27.315
12	27.105	32	27.325
13	27.115	33	27.335
14	27.125	34	27.345
15	27.135	35	27.355
16	27.155	36	27.365
17	27.165	37	27.375
18	27.175	38	27.385
19	27.185	39	27.395
20	27.205	40	27.405

DEPLOYMENT / SAFETY

### **Preparedness**

Being prepared for an emergency involves learning as much as you can and making plans to act. Continue to educate yourself by keeping up with current training at the appropriate levels. Each Radio CERT member should be prepared to activate and participate in emergency events within their own abilities and/or willingness.

The City of Euless has published a Citizens Preparedness Guide with additional information. The guide is available at [www.w5eul.com/docs/prepared.pdf](http://www.w5eul.com/docs/prepared.pdf)

### **Euless Police Department Emergency Operations Center**

The Emergency Operations Center (EOC) has been established to provide a centralized location for the city department heads to meet and coordinate activities during an emergency event. During these activations, access is restricted to authorized personnel.

### **Deployment/Activation**

Euless CERT Radio members do not self deploy. Euless Office of Emergency Management can activate CERT for disasters within the city limits of Euless as needed. The Euless EOC will use the City of Euless mass communications system to alert Euless CERT Radio members for an activation. We will meet at the designated meeting location unless otherwise instructed by the OEM.

If have not been activated, do not self deploy. This would be a good time to check your house and make sure it is safe to be in. You can also help your neighbors if you can do so safely.

### **Meeting Locations**

Our primary meeting location is Fire Admin at 201 N Ector Drive Euless, TX 76039. If Fire Admin is not available, you will be asked to meet a different location to be determined at the time of the event.

Once at the meeting location, you will be given guidelines to initiate the response and the recovery process.

### **Before You Deploy**

Make sure you and your family are safe.

Make sure your house is safe for you and your family to stay in.

Gather up your equipment:

- Radio Go-kit
- CERT Bag
- Change of clothes

- Any other equipment, supplies you may need
- Medication if you need it.
- Food
- Water
- Rain gear
- Sunglasses
- Hat

### **“Before The Storm”**

Monitor the weather to see if there is a chance for severe weather. If there is a chance make sure you have a plan and that your family knows what to in the event of severe weather. Gather your CERT bag and radio go kit. Make sure all your batteries are charged for your radios, cell phone, tablet, and GPS.



**SAFETY**

Stay hydrated

Stay nourished

Maintain body temperature

Do not over extend / overexert yourself. Take breaks as needed

Follow safety CERT Safety guidelines

The infographic is a vertical split diagram. The left side is yellow and represents Heat Exhaustion, while the right side is red and represents Heat Stroke. At the top, the words 'HEAT EXHAUSTION' and 'HEAT STROKE' are written in white on their respective colored backgrounds, separated by the word 'OR'. Below this, a central figure of a person is split vertically. The left half of the person is yellow and shows symptoms of heat exhaustion: faint or dizzy (with a dizziness icon), excessive sweating (with a sweat drop icon), cool, pale, clammy skin (with a thermometer icon showing a low reading), nausea or vomiting (with a stomach icon), rapid, weak pulse (with a heart icon and a weak pulse line), and muscle cramps (with a lightning bolt icon). The right half of the person is red and shows symptoms of heat stroke: throbbing headache (with a lightning bolt icon), no sweating, body temperature above 103° and red, hot, dry skin (with a thermometer icon showing a high reading and an upward arrow), nausea or vomiting (with a stomach icon), rapid, strong pulse (with a heart icon and a strong pulse line), and may lose consciousness (with a sad face icon). At the bottom, the left side lists treatments for heat exhaustion: 'Get to a cooler, air conditioned place', 'Drink water if fully conscious', and 'Take a cool shower or use cold compresses'. The right side has a large red box with 'CALL 9-1-1' in white, followed by the instruction: 'Take immediate action to cool the person until help arrives'. At the very bottom, there are social media handles for Weather.gov/Sacramento @NWSSacramento and @SacramentoOES SacramentoReady.org, along with logos for the National Weather Service and a warning symbol.

**HEAT EXHAUSTION** OR **HEAT STROKE**

Faint or dizzy — Throbbing headache

Excessive sweating — No sweating

Cool, pale, clammy skin — Body temperature above 103°  
Red, hot, dry skin

Nausea or vomiting — Nausea or vomiting

Rapid, weak pulse — Rapid, strong pulse

Muscle cramps — May lose consciousness

• Get to a cooler, air conditioned place

• Drink water if fully conscious

• Take a cool shower or use cold compresses

**CALL 9-1-1**

• Take immediate action to cool the person until help arrives

Weather.gov/Sacramento @NWSSacramento @SacramentoOES SacramentoReady.org

Hypothermia is when your body is too cold.

# HYPOTHERMIA WARNING SIGNS

**Warning Signs:**

- PUFFY OR SWOLLEN FACE
- SLOWER SPEECH OR SLURRING WORDS
- SLOW, SHALLOW BREATHING
- PALE SKIN
- SHIVERING
- COLD HANDS
- MOVING SLOWLY, TROUBLE WALKING, OR BEING CLUMSY
- STIFF AND JERKY ARM OR LEG MOVEMENTS
- COLD FEET
- SLEEPY
- ANGRY OR CONFUSED
- BLACKING OUT OR LOSING CONSCIOUSNESS
- SLOW HEARTBEAT

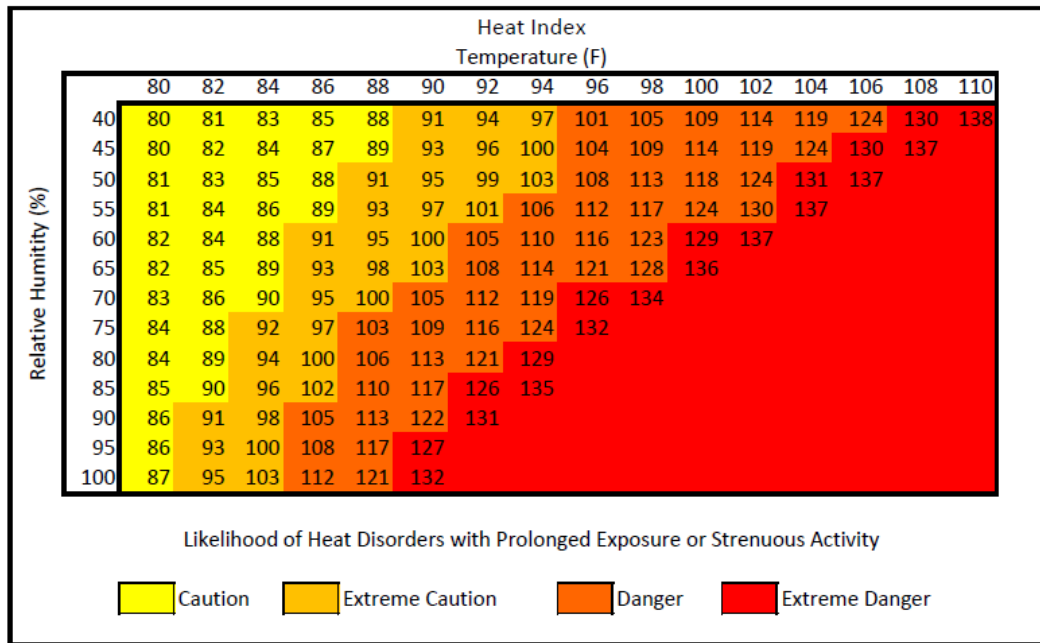
**FIRST AID**

- CALL 911
- MOVE TO A WARMER PLACE
- WRAP IN WARM BLANKETS, TOWELS OR COATS
- DRINK SOMETHING WARM
- AVOID ALCOHOL OR CAFFEINE
- DO NOT RUB LEGS OR ARMS
- DO NOT PUT THE PERSON IN A BATH
- DO NOT USE A HEATING PAD

# SAFETY INDEX CHARTS

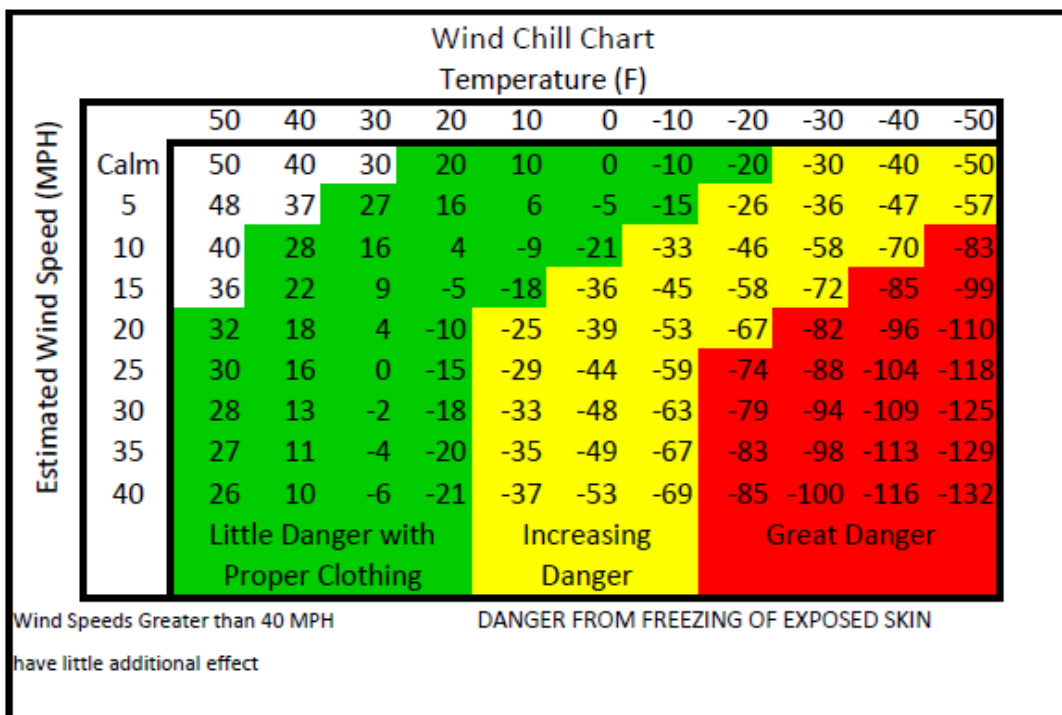
## Heat Index Chart

- Hot – Heat stroke, heat cramps or heat exhaustion possible with prolonged exposure or physical activity.
- Very Hot – Heat cramps or heat exhaustion likely and heat stroke possible with prolonged exposure and physical activity.
- Extremely Hot – Heat stroke likely with continued exposure.

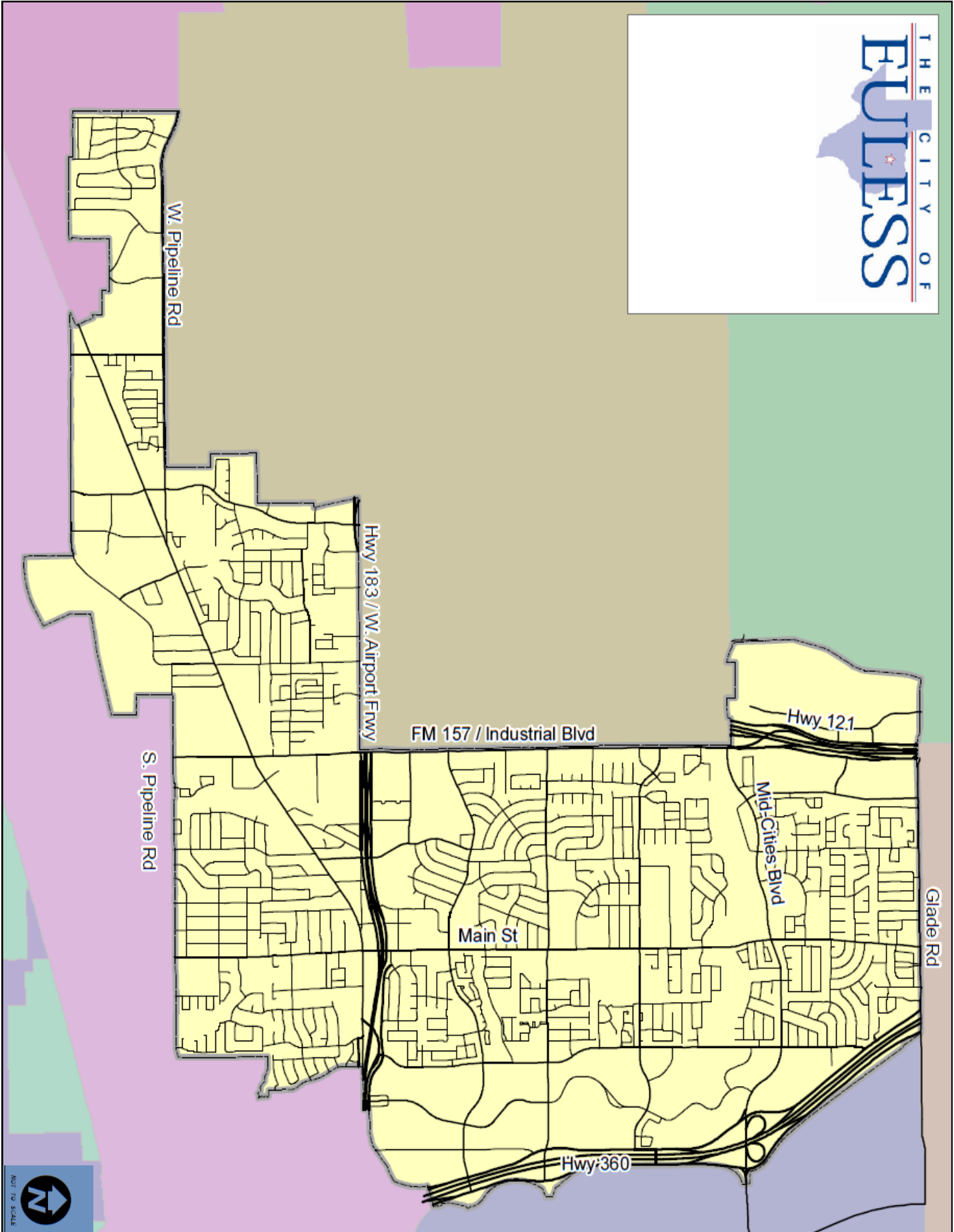
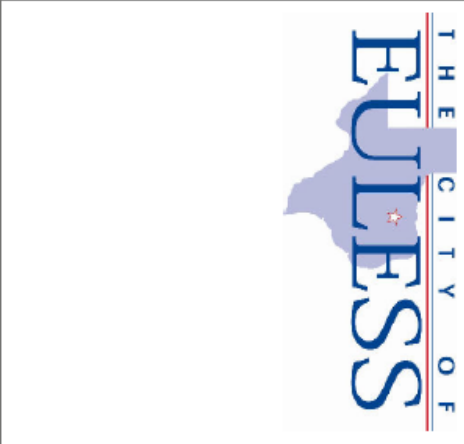


Wind

Chill Index

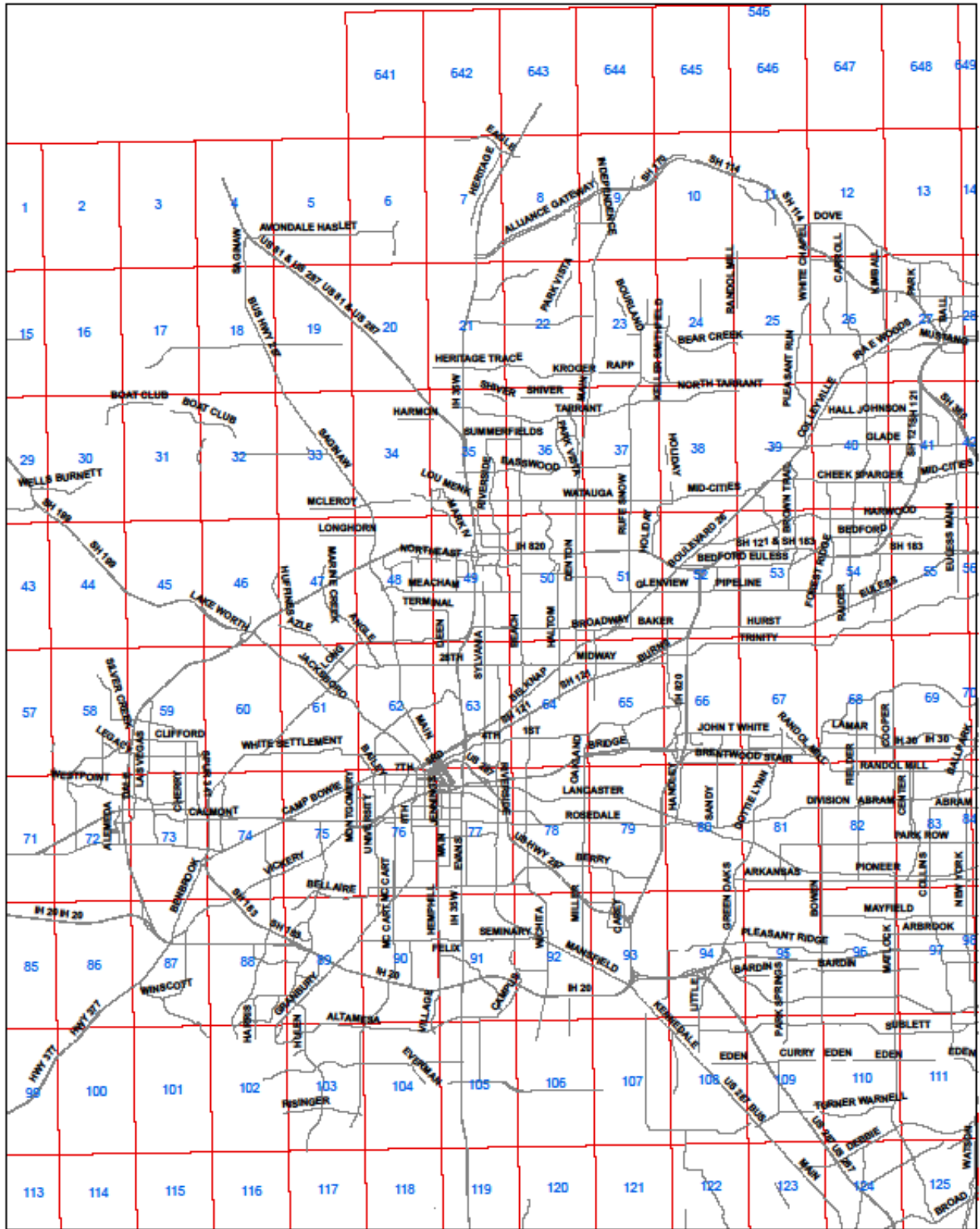


# APPENDIX



# TARRANT COUNTY MAP

## Tarrant County Mapsco Grids

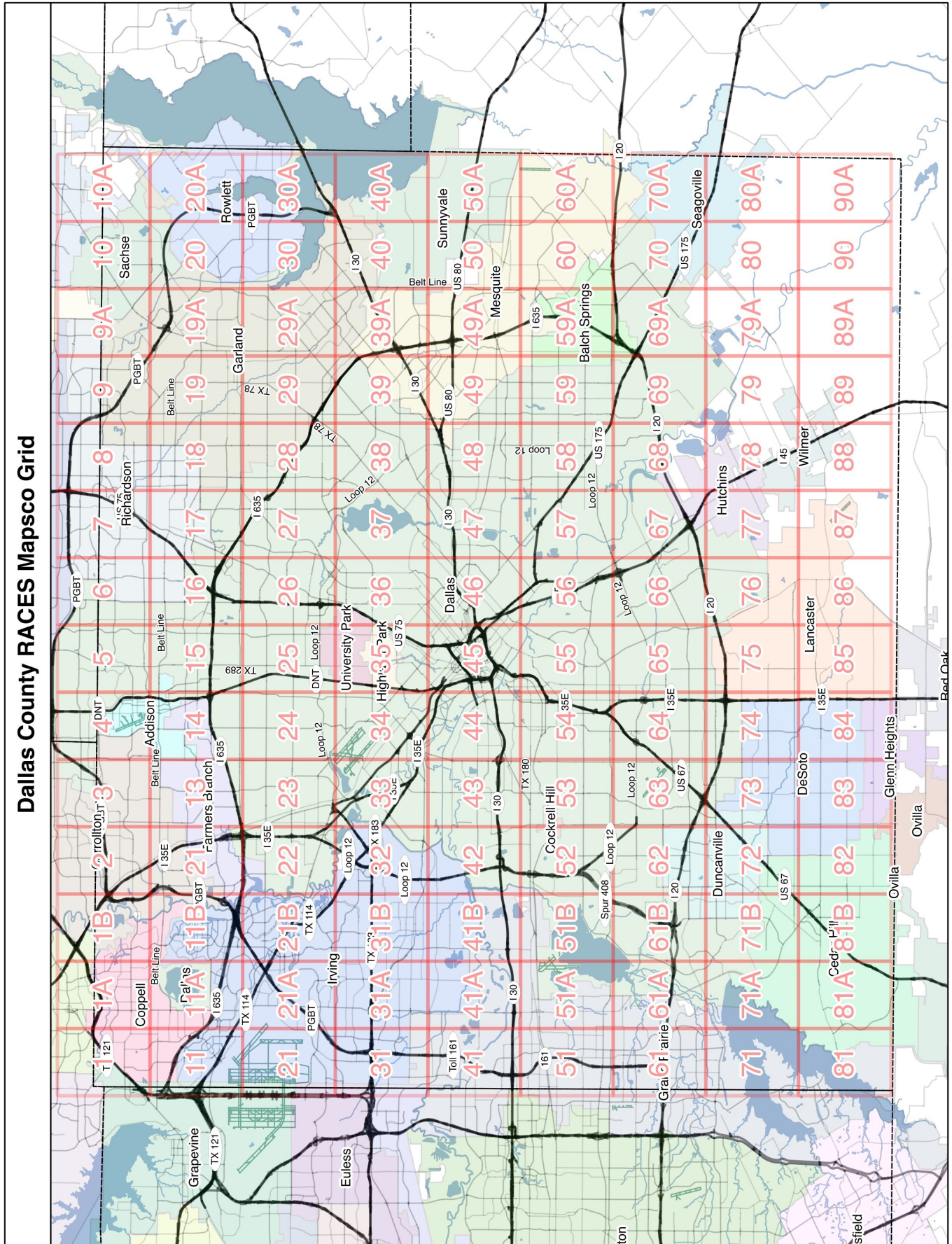


TARRANT COUNTY MAPSCO GRID



# DALLAS COUNTY MAP

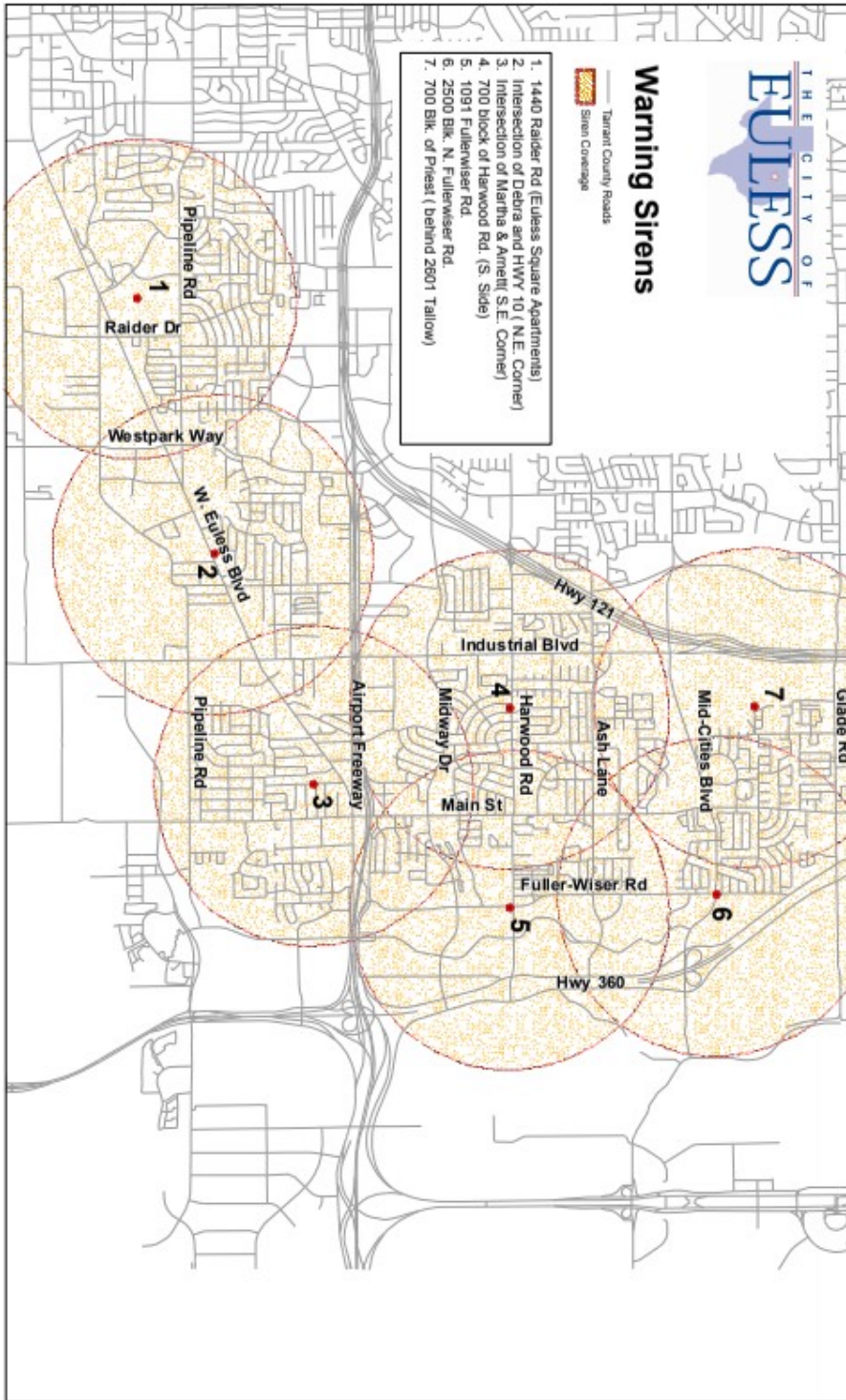
## Dallas County Mapsco Grids







## City of Euless Warning Sirens

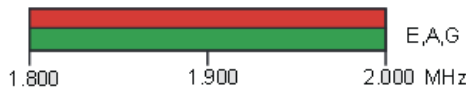


1. 1440 Raider Dr.  
West Euless Blvd. and Raider Dr.  
(In the Villa Bella Apartment Homes)  
32.817762N -97.137745W
2. West Euless Blvd. and Debra Dr. (NE Corner)  
32.825078N -97.111373W
3. Martha St. and Arnett (SE Corner  
(South of hwy 10 and West of Main)  
32.833951 N -97.086096 W
4. 700 Block Harwood Rd (South Side)  
Harwood Rd between Ector and Donley  
32.851417 N -97.094657 W
5. 1091 Fullerwiser Rd.  
Harwood Road and Fuller-Wiser Rd.  
32.851160 N -97.072856 W
6. 2500 Block Fullerwiser Rd.  
Mid-Cities Blvd and Fuller-Wiser Rd.  
32.872628 N -97.073543 W
7. 700 Block Priest  
Priest Lane and Tallow Dr. (South of  
Canterbury)  
32.873915 N -97.093606 W

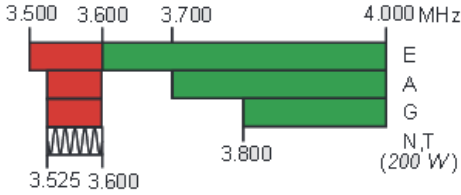
# BAND PLAN

## 160 Meters (1.8 MHz)

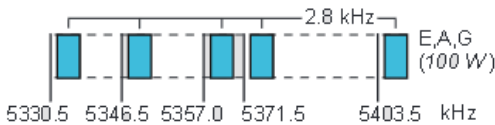
Avoid interference to radiolocation operations from 1.900 to 2.000 MHz



## 80 Meters (3.5 MHz)

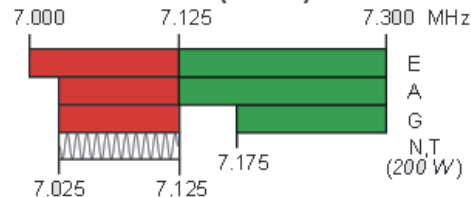


## 60 Meters (5.3 MHz)



General, Advanced, and Amateur Extra licenses may operate on these five channels on a secondary basis with a maximum effective radiated output of 100 W PEP. Permitted operating modes include upper sideband voice (USB), CW, RTTY, PSK31 and other digital modes such as PACTOR III as defined by the FCC Report and Order of November 18, 2011. USB is limited to 2.8 kHz centered on 5332, 5348, 5358.5, 5373 and 5405 kHz. CW and digital emissions must be centered 1.5 kHz above the channel frequencies indicated above. Only one signal at a time is permitted on any channel.

## 40 Meters (7 MHz)



Phone and Image modes are permitted between 7.075 and 7.100 MHz for FCC licensed stations in ITU Regions 1 and 3 and by FCC licensed stations in ITU Region 2 West of 130 degrees West longitude or South of 20 degrees North latitude. See Sections 97.305(c) and 97.307(f)(11). Novice and Technician licensees outside ITU Region 2 may use CW only between 7.025 and 7.075 MHz and between 7.100 and 7.125 MHz. 7.200 to 7.300 MHz is not available outside ITU Region 2. See Section 97.301(e). These exemptions do not apply to stations in the continental US.

## 30 Meters (10.1 MHz)

Avoid interference to fixed services outside the US.



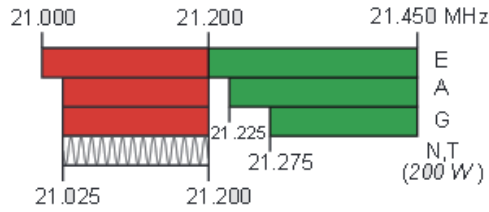
## 20 Meters (14 MHz)



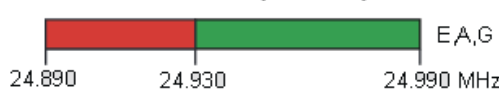
## 17 Meters (18 MHz)



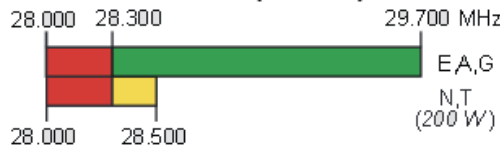
## 15 Meters (21 MHz)



## 12 Meters (24 MHz)



## 10 Meters (28 MHz)



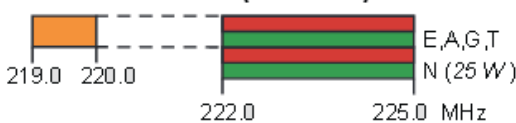
## 6 Meters (50 MHz)



## 2 Meters (144 MHz)



## 1.25 Meters (222 MHz)



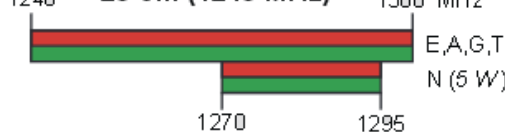
## 70 cm (420 MHz)\*



## 33 cm (902 MHz)\*



## 23 cm (1240 MHz)\*



Note:

CW operation is permitted throughout all amateur bands.

= RTTY and Data

= phone and image

= CW only

= SSB phone

= USB phone, CW, RTTY and data

= Fixed digital message forwarding systems only

E = Extra


A = Advanced

G = General

T = Technician

N = Novice


\*Geographical and power restrictions may apply to all bands above 420 MHz. See *The ARRL Operating Manual* for information about your area.



**UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION**

**AMATEUR RADIO LICENSE**

**W5EUL**



ATTN: CHRIS D SHANAHAN  
 AMATEUR RADIO EULESS  
 PO BOX 281  
 EULESS, TX 76039

FCC Registration Number (FRN): 0016983082

Special Conditions / Endorsements			
NONE			
Grant Date	Effective Date	Print Date	Expiration Date
07-19-2017	07-19-2017	07-19-2017	10-16-2027
File Number	Operator Privileges		Station Privileges
0007858583			CLUB

**THIS LICENSE IS NOT TRANSFERABLE**

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(Licensee's Signature)

FCC 660 - May 2007

Cut Along This

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# PHONETIC ALPHABET

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## Phonetic Alphabet

Phonetic Alphabet								
ITU					Police/Fire			
A	ALPHA	N	NOVEMBER		A	ADAM	N	NORA
B	BRAVO	O	OSCAR		B	BOY	O	OCEAN
C	CHARLIE	P	PAPA		C	CHARLES	P	PAUL
D	DELTA	Q	QUEBEC		D	DAVID	Q	QUEEN
E	ECHO	R	ROMEO		E	EDWARD	R	ROBERT
F	FOXTROT	S	SIERRA		F	FRANK	S	SAM
G	GOLF	T	TANGO		G	GEORGE	T	TOM
H	HOTEL	U	UNIFORM		H	HENRY	U	UNION
I	INDIA	V	VICTOR		I	IDA	V	VICTOR
J	JULIET	W	WHISKEY		J	JOHN	W	WILLIAM
K	KILO	X	XRAY		K	KING	X	XRAY
L	LIMA	Y	YANKEE		L	LINCOLN	Y	YOUNG
M	MIKE	Z	ZULU		M	MARY	Z	ZEBRA





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## REVISIONS

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Date	Version	Description	Changed By
6/27/2020	1.0	Initial Publication	Chris Shanahan

Eules CERT Radio  
1102 W. Eules Blvd  
Eules, TX 76040  
[www.w5eul.com/cert](http://www.w5eul.com/cert)  
[certradio@w5eul.com](mailto:certradio@w5eul.com)

