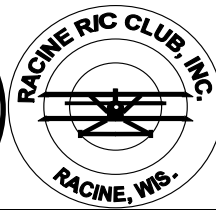




THE FLIGHTLINE



AMA CLUB 668 SINCE 1968
RACINE RADIO CONTROL CLUB INC SINCE 1968

RRCC July Issue
July 16, 2023 Newsletter

WE ARE ON THE WEB
www.racinerccclub.com

Club Officers

President

James Litwin
262-637-2787 (Cell 262-939-7926)
president@racinerccclub.com

Vice President

Roger Nickolaus
414-405-8004
vp@racinerccclub.com

Secretary/Treasurer

Bob Johnson 847-421-5494
secretary@racinerccclub.com

Field Chairman

Trygve Smalley
414-940-0929
field@racinerccclub.com

Safety Officer

Darrel "Hoss" Hossalla
414-651-0968
safety@racinerccclub.com

Tractor Chairman

Eric Armantrout
262-498-1035
tractor@racinerccclub.com

Compost Director

Chuck Roberts
224-717-9998
compost@racinerccclub.com

Webmaster

Ron Hayes
224-355-7651
web@racinerccclub.com

Newsletter Editor

Dennis Vollrath
Cell 262-994-6342
newsletter@racinerccclub.com

NOTE NOTE NOTE NOTE NOTE NOTE

July 16, 2023 is the club picnic! If you are planning on attending, you must contact Hoss and let him know ASAP how many people you are bringing in your group .

This is so the RRCC club officers can order sufficient food and drink for the members that do attend the picnic.

Note that the picnic date was voted on at the June meeting AFTER the newsletter was published and sent out in the June issue.

Racine R/C Club Meeting Minutes

June 25, 2023

Time: 1:00 PM

Location: R/C Flying Field

Open Meeting - Jim opened the meeting at 1:00PM. 20 members were present.

Welcome - New Members & Guests – No new members or guests were present.

Minutes - Last Meeting – The August 12th Float Fly reported in last month's new letter is in 2023, not 2011 at Bong Recreational Park Field.

Reports

President-Jim Litwin – As noted in the newsletter, if you read it, I want to acknowledge the following: Rich Smentek refurbished the club logo on our sign on the side of the club house. It is now covered in plexiglass.

Roger Nickolaus rebuilt the Big Plane hold down poles, and they have been recovered. Also, racks were built to hold them with a donation from Jason Fisher. Please use them instead of leaving poles on

the tables.

Bleacher seats were rebuilt (doubled up on the existing wood) to increase stability by Tryg Smalley.

Ongoing issues with the new "Menet Aero" drone company leasing land from Mt Pleasant. Updates as follows:

- Menet Aero is now using the site.
- This past week they did have an issue with a plane flying too close to their operational site. There is talk about them providing a radio to be dropped off with us when they are doing their testing so they can immediately communicate the intrusion to us.

A summary of their procedure when entering site (Flag).

Distribute a map to show where they are. They are legally leasing the land for their testing operations.

We have NO claim to the site or airspace when they are there. No such thing as, We were here first, or they can move further back to accommodate us.

Again, they lease this land and have the right to determine how they want to use it. We have NO say in what they want to do.

Members that regularly attend meetings need to inform other members that do not attend about these flying restrictions.

They indicated they will probably only be using the site once a week. They **DO** want to work with us to keep everything safe, but they do have their operational needs and we need to work with that.

When they are there, DON'T fly near the tree line west of the compost site. The edge of the tree line is only 311 feet from where they are set up.

If you fly over the middle of the compost

site and make a sharp left turn you will easily avoid them. Could also consider a "Split S" or an "Immelmann turnabout" and you will return right down the same path you entered the turnabout.

"Split S"-fly level a little high, roll to inverted and pull full up elevator. The plane will loop downward and stop when level with the direction you entered from.

"Immelmann"-fly level, pull full up as if going into a loop. At the top of the loop, you are inverted. Use ailerons to roll the plane to upright level flight and you are returning from where you started.

You can also turn short over the compost site before the road. Or fly more north/south at the east end of our field.

There are numerous options. Just stay away from the tree line. You don't need the expense of hitting one of their drone cables (probably \$200,000+), or them getting upset and contacting Mt. Pleasant about our intrusions into their leased testing area and requesting a "Cease and Desist" order from the village.

This would shut us down because they are unable to use their leased site.

FLY SMART-THINK!!

Vice President- Roger Nickolaus had nothing new to report.

Secretary/Treasurer-Bob Johnson
Current membership as of this newsletter.

Senior Members	41
Open Members	13
Junior Members	2
Total	56

General Fund-Continues to be healthy. We are well positioned to deal with any expenses (planned or otherwise) for the balance of 2023.

Our FRIA application has been submitted

to the FAA by the AMA. The FAA has not yet started processing any FRIA applications and may not do so until late spring/early summer. AMA will not be able to provide updates until the FAA has completed processing our application.

Newsletter Editor-Dennis Vollrath had nothing new to report.

Field Chairman- Trygve Smalley reported everything is going smoothly and thank you to the members that helped with the improvements. Please sign up for mowing.

Tractor Chairman- Eric Armantrout reported new blades have been installed on our mower.

Web Master-Ron Hayes was not present.

Safety Officer-Darrell Hossalla stated there will be no taxing on the field when other pilots are retrieving a plane that can't taxi back to the pits under its own power.

Compost Director- Chuck Roberts reported all is good.

Old Business- Nothing to discuss.

JIM'S CORNER

There has been some very nice flying days lately, although a little breezy at times.

A challenge for the smaller planes, but the big ones seem to be handling it OK. Take what you can get!

Everything that needs to be said about the drone test site northwest of us is available in the minutes from the June meeting, found elsewhere in this newsletter. Please read them.

Instead of a regular business meeting in the month of July, we traditionally hold a club picnic.

Membership voted at the June meeting to hold it on our regularly scheduled

New Business – Club Picnic- Sunday July 16th. Usually, we have the picnic instead of the July meeting. If so, we need a motion to authorize Roger Nickolaus to purchase needed items and food, etc.

Motion was approved and Roger is authorized to purchase needed items up to \$300.00. Please bring a dish to pass.

New Pilots – None

Show & Tell – None

Raffle Drawing – Mike Stein won the Raffle. The total was \$25.00 and Mike donated it all to the club. Thank you, Mike!

Close Meeting – Jim closed the meeting with a reminder that the next club meeting will be Sunday August 20th at 1PM at the field.

meeting date of July 16th. People start gathering around 10 AM, and food starting about 11:30AM.

CLUB PICNIC Sunday, July 16th
RC Flying Field. Food at 11:30 AM
Meat, buns, chips, and drink provided by the club.

Those attending requested to bring a dish to pass: fruit, salads, vegies, desserts, etc.

Not much else to say at this time, except, enjoy the field when you can and the weather permits.

Fly Safe & Have Fun
Jim Litwin
President

Dennys Stuff

We have a couple of things to cover this month.

First on the list is the Spektrum nX series of radio transmitters.

A number of our club members have purchased either the nX10, or the nX8 series transmitters.

And, they have noted that these transmitters do not have the usual slide switch ON-OFF switch as we had for many decades.

FYI, those slide switches have terrible reliability issues, since they are basically open construction contacts that are not shielded from dust or any other contamination.

Your editor has covered those receiver slide switches many times over the past years in the RRCC newsletter. And, I've found way to many switches that only used one pole of the switches four poles to turn on the receiver. The three other poles were simply never hooked up. For me, I will NEVER use one of those receiver slide switches in ANY of my RC models. Period.

From the very first Spektrum transmitters a decade or more ago, the Spektrum transmitters used a "Safe" type of ON-OFF slide switch, where **CLOSING** the switch contact turned the transmitter OFF.

Now, the Spektrum nX10 series of transmitters uses a Push Button type of ON-OFF switch. To turn on the transmitter, the user simply pushes and holds the transmitter switch down until something shows up on the transmitter LCD screen. Then let go of the pushbutton. Simple.

But, there have been scattered issues on

the internet concerning turning **OFF** the Spektrum nX10 series of RC transmitters.

Little background here on just how the Spektrum nX10 series of transmitters turn off.

Normally, when you have landed, and go to turning off the transmitter, you push and hold the transmitter power button until you see the LCD screen change.

That takes four seconds.

The important part of this, is the Spektrum transmitter microcontroller computer uses that time for book keeping after you've decided to turn off the transmitter.

What it does after those few seconds is, it saves all of the trim settings for the model you are currently flying. That includes the trim settings, mixing and so on. (And maybe even the binding to the receiver?)

After all of that is done, the transmitter shuts off, and the LCD display goes blank.

So, the proper way to shut down the Spektrum nX10 series of transmitters is to press and hold the transmitter power button. Watch for the LCD screen to change at 4 seconds, then, release the power button.

That's it.

The problem shows up if you press the power button to turn off the transmitter, and hold it down for over 10 seconds.

That is a problem.

The Horizon Hobbies software engineer (Andy Kunz) has pointed out in

RCGroups.com that the software for the Spektrum xN10 series of transmitters was written to shut down differently if the power button is held down for over 10 seconds. (Nothing new here, your PC's do the same thing if you shut down your PC by the power button, rather than using the shut down ICON command)

Andy indicates holding down the power button for over 10 seconds will still shut down the transmitter as a "Hard Shut-Down". **But, it may not save your trim settings in the process!**

Again, bottom line, when powering **DOWN** your Spektrum nX10 series of transmitters, just hold the power button down until you see the LCD display change. That's four seconds.

Incidentally, the same thing applies when powering **UP** your Spektrum nX10 transmitters.

Just press and hold the Spektrum nX10 series power button until you see transmitter LCD display light up. Then let go.

IF you push and hold the power button for a half minute or something, the transmitter can potentially go back to powering back down, leaving the user wondering what the heck happened!

REFERENCE:

Quote from Andy Kunz in RCGroups (FYI, When holding the power button down for over 10 seconds.)

"It doesn't save changes then. You are telling the transmitter to do an emergency shutdown, not a standard one. Emergency does not save the model memory, but standard does."

"As soon as you see the shutdown process start, release the power button. That way it will save the model

and your settings will be there when you start it back up."

"At 4 seconds the shutdown process starts, but at 10 seconds it sees that you have the button STILL held down and does a hard-Power off instead of a clean save-to-memory shutdown."

Andy Kunz Horizon Hobbies Spektrum transmitter software engineer.

Bottom Line:

When powering down your Spektrum nX series of transmitters, just hold down the power button for four seconds, watch the LCD display change, and release the power button.

And when powering up the nX transmitters, hold the button down until the LCD display lights up, and release.

Different subject.

Your editor has watched countless gasser powered RC models start a landing approach with the model a hundred feet in the air, then come down at a 30 degree angle, and land in the middle of the field.

You can't do that with the higher powered electric models. With a 100 foot high approach, your model will overshoot the field!

It has to do with the gasoline engine up front and its propeller. Everyone has noticed that when diving a gasser model with the engine at idle, the engine will speed up by windmilling during the dive.

That windmilling is putting a brake on the model, since the propeller air blast speed with the engine at idle is less than the airspeed of the model. Making the engine wind mill causes a braking action on the model.

You don't have that windmilling effect with an electric model. Diving still winds up the propeller on the electric motor. But, there is zero energy being put into the motor when it's windmilling. The motor just spins up with no resistance.

So, diving a higher powered electric model results in the model flying faster as it approaches the ground. And, you overfly the field.

Also note that the same exact phenomenon occurs with a kerosene jet powered model airplane. These jet models are already extremely fast, with little hanging out for drag.

And, these jet models don't have a 20 inch diameter propeller airbrake in front of them slowing down the model during a landing. Add to that, those kerosene jet engines don't spool up fast like an electric fan jet, or the usual gasser or electric models.

So, if you come in a bit short with a kerosene jet, pouring on the power takes to long, and you're likely to fall out of the sky on an attempted go-around.

Somewhat the same with a gasser compared to an electric during a landing attempt. The gasser prop keeps turning under a bit of power from the engine, so the model automatically approaches the ground at a predetermined speed related to the idle RPM of the engine.

But, the high powered electric models do not have any power on the prop if the pilot goes to full throttle down. And, again the model can fall out of the sky.

As many have found with electrics, the proper procedure for landing is to put a slight amount of motor power on as the model is a few feet from landing.

Different subject:

Many RC'rs may have noted those two "L-Trim" and "R-Trim" center off slide switches located near the top of the Spektrum DX9 and nX10 transmitters.

And, there isn't a lot of information on just what these slide switches are used for. There is absolutely no information on these two slide switches in the nX10 user manual.

It turns out there is a wealth of information on the Spektrum nX10 series of radio transmitters in YouTube. Those YouTube videos cover a very wide range of subjects.

And, several of them cover the use of the L Trimmer and R Trimmer slide switches. Seems they are used with transmitter mixes, and one of their uses is setting up the flap - elevator mix.

How it's done is way to complex to cover in the newsletter. However, here is a link to the YouTube webpage on the L Trim and R Trimmer functions.

FYI, this is a 10 minute video, and it covers how to set up the Flap/Elevator mix while flying your model, using those trimmer slide switches.

[Spektrum NX Setup: Elevator/Flaps Mix on the FLY! - Advanced \(NX8/NX10\) - YouTube](#)

While on the subject, I've covered previously that my Escapade model has been outfitted with the Spektrum AR8360T receiver with built in Gyro functions.

Up until this past week, the Gyro was only turned on during landing, something that has worked quite well.

The Gyro is programmed "Off" on switch position #1, the Gyro is programmed "Fixed" on switch position #3. And, last-

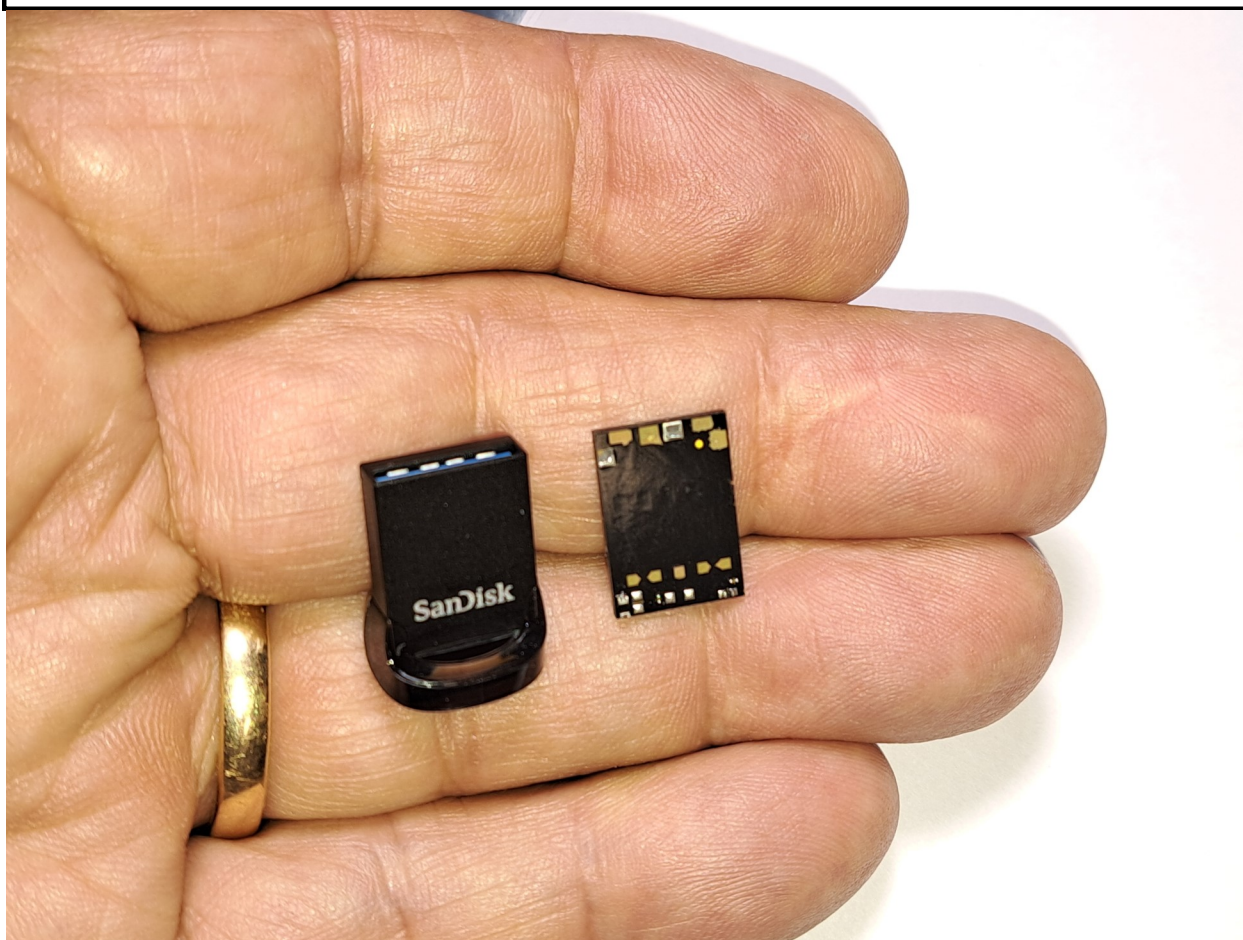
ly, in switch position #2, the Gyro gain is programmed to be adjusted by the nX10 "R-Knob" on the top right side of the nX10 transmitter.

So, a few days ago, I did playing with position #2 during flight. And, with the R-Knob fully clockwise for maximum gain, the model responded with the usual oscillation of the ailerons at anything over

75% throttle.

I've found that the model will fly just fine with the Gyro gain set to around 60% of the R-Knob position during flight.

That Gyro switch position #2 for variable Gyro gain will be used a lot more on future flights of this model.



This subject is just to fill in the extra page of this newsletter! What the photo shows is a 256 Gb USB memory drive. That 256 Gb can hold all of the information stored in 240 of those music CD's we used awhile ago.

I had a few of these units. And, one died. It still worked as a drive, but it refused to allow writing to the device, with the response "Writing to Disk is blocked".

So, naturally, your editor wanted to see just what is inside one of these tiny memory units.

The above photo shows the insides. It has two units.

One is just the connector, you can see the four terminals on the top of the left photo.

The right side shows the entire potted memory unit, including all of the controlling microcontrollers that enable working with your computer.

This device measures 7/16 by 5/8 by 1/32 inch thick.

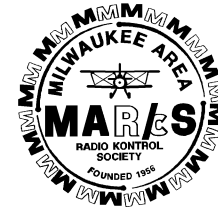
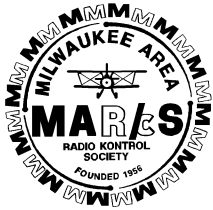
Somewhere I have a photo of a computer hard drive from the 1950's. It has 5 megabytes of capacity, weighs some 1000 pounds, it's the size of a large desk, and was worth some 5 million dollars. Times have changed!

FLOAT FUN FLY

23TH ANNUAL

**AUGUST 12, 2023 FROM 9 am to 4 pm (13TH, SUNDAY is RAIN DAY)
BONG STATE RECREATION AREA-KANSASVILLE, WI.**

Sponsored by MILWAUKEE AREA RADIO KONTROL SOCIETY



FLYING- CAMPING-PICNICKING
Bring family, friends, food and FLOATS

Enjoy the outdoors in a beautiful State Recreation Area
where swimming, hiking, camping and
a host of other activities are Available.

**BIG PLANES, small planes, Boats lots of Room
and lots of shallow water with easy Access.**

**Flying available Saturday or (Rain day) Sunday
STARTING TIME 9am To 4 pm**

DONATION \$5.00!

ENTER BONG STATE RECREATION AREA

From Hwy 142, ½ mile west of Hwy 75.

A Wisconsin State Park Sticker is required (daily or annual) and can obtained at the entrance or in advance.

2009 Wisconsin State Park Sticker:

All fees are per vehicle not per person , it pays to car pool!

Tell the attendant you are going to the M.A.R.K.S. club FLOAT FUN FLY.

**REFRESHMENTS B.Y.O. (BRING YOUR OWN) FOOD
CAMPING RESERVATION SHOULD BE MADE EARLY**

For additional information call

Roger Nickolaus cell 414-405-8004 (RBNCARS@SBCGLOBAL.NET)

For weather info the day of event call Roger Nickolaus 414-405-8004

South East Wisconsin RC Club Events

(This schedule came from the RC Association)

Date	Club	Event
1 * Sat Apr 8	Model Engine Collector's Association (MECA)	Collecto and Hobby Swap Meet
2 * Sat Jun 3	Circle Masters Flying Club at Sussex Village Park	Control Line Open Fun Fly
3 Sat Jun 10	Fond Du Lac Aeromodelers Association	Open Fun-Fly
4 * Sat Jun 24 (rain date Sun Jun 25)	Sky Ranch Flyers	Fun Fly
5 * Sat Jul 8	Bong Eagles	Old Timer Contest
6 * Sun Jul 9	Flying Electrons	Scale Event
7 July 16	Racine RC Club	Club-Only Picnic
8 * Sat Jul 15 (rain date Sun Jul 16)	Astrowings of Wisconsin	Charity Fun Fly
9 * Sat Jul 22 (rain date Sun Jul 23)	Southeastern Wisconsin Area Rotary Modelers (SWARM)	Friend Fly
10 * Sun Jul 23	Flying Electrons	Electric Fly In
11 * Mon Jul 24 to Sun Jul 29	Circle Masters Flying Club	EAA KidVenture - Oshkosh
12 * Sat Aug 5 (rain date Sun Aug 6)	Milwaukee Area Radio Kontrol Society (MARKS)	Float Fly DNR Bong
13 * Sat Aug 5	Bong Eagles	All Free Flight Contest
14 * Sat Aug 5	Rubicon Area Flyers	Fun Fly
15 * Sun Aug 6	Circle Masters Flying Club	Annual Control Line Contest
16 * Sat Aug 12 (rain date Sun Aug 13)	Flying Electrons	Airfest, Fly-In Benefit Troop #110
17 * Thu Aug 17 - Sat Aug 19	Fond Du Lac Aeromodelers Association	Warbirds and Classics Over Midwest
18 * Sun Aug 20	Fond Du Lac Aeromodelers Association	Open Fun Fly
19 Sun Aug 20	Racine RC Club	Open House
20 * Sat Aug 26 * Sun Aug 27	Circle Masters Flying Club (might not fly on Aug 26 due to possible car show)	Demo Flying, Sussex Antique Farm Implement Show
21 * Sat Sep 9 (rain date Sun Sep 10)	Flying Electrons	Fly-In and Swap Meet
22 Sun Sep 10	Watertown Aeromodelers RC Club at Watertown Municipal Airport	Open house and pancake breakfast with flying demos
23 * Sat Sep 16 to Sun Sep 17	Flying Electrons	Pattern Contest
24 * Sat Sep 16 (rain date Sun Sep 17)	Rainbow Aero Modelers Society (RAMS) and Southeastern Wisconsin Area Rotary Modelers (SWARM)	Joint Club-Only Picnic
25 * Sat Oct 7	Model Engine Collector's Association (MECA)	Collecto and Hobby Swap Meet
26 * Fri Oct 20 to Sun Oct 22	all clubs invited to participate and promote (possibly at Discovery World)	Maker Faire

For EAA KidVenture, volunteers get free admission, good free parking, a T-shirt, and lunch for about 3 hours of time (with breaks if needed). Contact Chris Sterner.

Laurie will include club events and dates (excluding club-only events) on the Association's Facebook page. Each event will include a link to the club's web site.

Lakeland RC Club is hosting no event this year due to losing their field.

COMPOST SCHEDULE 2023

Date	Time	Name(1)	Name(2)	Substitute
07/05/23	12-2	Jason Fisher		Steve Knackert
07/05/23	2-4	Ray Fisher		
07/05/23	4-6	Ray Fisher		
07/12/23	12-2	Scott Agen		
07/12/23	2-4	Rich Smentek		
07/12/23	4-6	Merv Tridle		
07/19/23	12-2	Merv Tridle		
07/19/23	2-4	William Bylsma		
07/19/23	4-6	Gary Bokowy		
07/26/23	12-2	Terry Peterson		
07/26/23	2-4	William Bylsma		
07/26/23	4-6	Gary Bokowy		
08/02/23	12-2	Dennis Krzyzanek	Pete Luks	
08/02/23	2-4	Dennis Krzyzanek	Pete Luks	
08/02/23	4-6	Eric Armantrout		
08/09/23	12-2	Terry Peterson		
08/09/23	2-4	Wayne Greisen		
08/09/23	4-6	Douglas Karge	Roman Kyrkowicz	Helmut Schmidtke
08/16/23	12-2	Matthew Holl		
08/16/23	2-4	Matthew Holl		
08/16/23	4-6	Matthew Holl		
08/23/23	12-2	Terry Peterson		
08/23/23	2-4	Wayne Greisen		
08/23/23	4-6	Chris Stein		
08/30/23	12-2	Chris Stein		
08/30/23	2-4	Wayne Greisen		
08/30/23	4-6	Chris Stein		
09/06/23	12-2	Bob Johnson		
09/06/23	2-4	Bob Johnson		
09/06/23	4-6	Gary Bokowy		
09/13/23	12-2	Bob Johnson		