

Field Day

You thought it was over and done?

And you were almost right.

Program Night, Wednesday, July 26, 1995, will be re-hash of this year's event, better ideas for the future. Come put in your 32-cents worth.

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L a f a y e t t e H a m f e s t

3 r d S u n d a y i n A u g u s t

Don't forget to do your part.

2 WD9HED lost \$24.00 at the last meeting 0
Are you going to lose \$30.00 at the next meeting?

TTTTT AAA RRRR AAA President KF9UP Jeff Stewart
T A A R R A A Vice-Pres W7YE Bob Martin
T AAAAA RRRR AAAAA Secretary KF9WS Tim Gennett
T A A R R A A Treasurer KF9CT Jack Freeman
T A A R R A A Director K9LYA Jim Collison

TTTTT AAA TTTT TTTTT L EEEEE RRRR
T A A T L E R R
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COMING EVENTS

- 26JUL95 WED 0730 TARA Program Meeting, Field Day discussion.
- 5AUG95 SAT 0800 Porter County ARC Hamfest, Porter County Expo Center, SR49S & US30, VE session, forums, Talk-in 146.52, \$5.00, free parking
- 6AUG95 SUN 0600 Hamfesters Hamfest, Peotone, Illinois, **61st annual**, six covered pavilions for flea market, Commercial exhibits open at 0800 in A/C Building, 35 acres of free parking, No alcohol to brought onto Fairgrounds [but they will sell you beer starting at Noon], 35 acres of free parking, Talk-in 146.52, 146.64(-), 146.94(-), \$5.00
- 6AUG95 SUN 0700 Land of Lakes ARC Hamfest at Steuben County Fairgrounds, corner of 200W & 200N, VE session at 0900, camping, free parking, Chicken BBQ, Talk-in 147.18/.78, 444.9, 224.94, 53.05, \$4.00
- 8AUG95 TUE 0730 TARA Business Meeting
- 20AUG95 SUN **LAFAYETTE HAMFEST
ALWAYS 3RD SUNDAY IN AUGUST**
- 23AUG95 WED 0730 TARA Program Meeting
- 27AUG95 SUN 0800 W9MJL 20th annual Hamfest & Computer Show, UAW Civic Center, Free Overnight Parking (no hookups), Grand Prize drawing at 2PM-HT Radio, Air Conditioned indoors, VE Tests, Talk-in 22/82, \$3/2 f/\$5
- 2SEP95 SAT 0800 Hoosier Hamfest & Computer Show, Indianapolis National Guard Armory, Holt Road & Minnesota (Stout Field), sponsored by Electronic Applications Radio Service (EARS, Inc.), largest Vendor Display in the area., Free parking, \$6.00, Talk-in 145.25
- 9SEP95 SAT 0800 Computer Show/Hamfest, Allen County 4-H Fairgrounds, 5 mile North of Fort Wayne off SR3 at Carroll Road, Foxhunt, VE session (walk-ins accepted), tailgating, \$5.00, Talk-in 16/76
- 9SEP95 SAT 0800 Laporte ARC Hamfest, Laporte County Fairgrounds, free outside flea market, Talk-in 146.52
- 9SEP95 SAT 0900 Owen County ARA Hamfest, Owen County Fairgrounds, SE part of Spencer, Talk-in 146.985
- 12SEP95 TUE 0730 TARA Business Meeting
- 16SEP95 SAT Red Cross Mock Emergency, with TARA participation.
- 16SEP95 SAT 0600 Illinois State Convention, Peoria, Illinois
- 17SEP95 SUN 0600 Illinois State Convention, Peoria, Illinois
: 60,000 Feet of exhibit space, 5 building, commercial
: buildings open at 0800, held at Expo Gardens, northern
: part of Peoria, \$5.00
- 17SEP95 SUN Hamfest, Cincinnati, Ohio
- 23SEP95 SAT Hamfest, Grayslake, Illinois
- 24SEP95 SUN Hamfest, Grayslake, Illinois
- 27SEP95 WED 0730 TARA Program Meeting
- 30SEP95 SAT Hamfest, Peru, Indiana
- 30SEP95 SAT ARRL National Exam Day
- 8OCT95 SUN 1300 VE Testing by KA9DSA, at the Danville, IL club's "A" frame, bring Photo ID, Original license & copy to go with 610 (AA9JE of Paris, IL will hold exams on months tests are not held at "A" frame.)

T.A.R.A Business Meeting
Tuesday, 11 July, 1995

The meeting was called to order at 1930 hrs by president Jeff Stewart, KF9UP. Twenty members were present. Bob Martin, W7YE, recorded minutes in the absence of the secretary.

Reports

The minutes from the previous meeting were not read but were reviewed. Jack Kueberth's name had been spelled wrong but was corrected.

A list of all club members who had a Field Day QSO was sent around and all who are ARRL members were to mark their name or add to the list if not listed. We get 10 FD bonus points for each ARRL member with a QSO.

Treasurer's report: the club has a balance of \$11,557.41. Field Day Auction pledges totaled \$513.25 with \$31.00 outstanding.

T-shirts and golf shirts have been mostly delivered.

Old Business

The pulley is now freed for the dipole. Still need to fix the tri-band beam.

New Business

A watch was found at the FD site. No one has so far claimed it. For FD last year TARA had 819 QSO's for 3472 points. This year had 1072 QSO's on HF plus 39 6 meter, 23 2 meter, 75 10 meter novice for 1209 QSO's and 4572 points including bonus points. A good score for us. Will be discussed as a program on July 26 program meeting. Discussed the possibility of working in SS or another fall contest for practice.

Bob Finch, N6CXB volunteered to look over the Corsair and repair any problems. A long discussion followed concerning the future of the Corsair and whether or not to get an automatic antenna tuner. N6CXB will inventory the antennas and find a home for all.

Jim Collison, K9LYA announced that on September 16 the Red Cross will conduct a mock emergency and volunteers will be needed.

Bruce Stewart, N9GKE, discussed the August Hamfest plans which are on schedule. Need people to work the gate. Set up Saturday starts at 1 PM.

New member Bob Smith, WB9VAL, was introduced.

The future of the beam was further discussed. Decided to put up new coax and try to fix it. KF9UP will coordinate the effort.

The drawing was held for the \$24.00 attendance prize and Gene Phillips, WD9HED was drawn. As he was not in attendance the prize for the next meeting will be \$30.00

There being no further business, it was moved and seconded that the meeting be adjourned. The motion passed and the meeting was adjourned at 2037 hrs.

Respectfully submitted
Tim Gennett, KF9WX, Secretary

TIPPECANOE AMATEUR RADIO ASSOCIATION
TREASURERS REPORT
JULY 11, 1995

DUES RECEIVED :

GLENN WARD N9MIH	95 DUES	\$ 6.00
MIKE OSBORNE WB9YPG	95 & 96 DUES	\$ 12.00
GORDON AMOS KB9KNP	95 DUES	\$ 6.00
JOHN KUEBERTH KB9KWO	95 DUES	\$ 6.00

TOTAL DUES... \$ 30.00

OTHER INCOME RECEIVED...

JOHN OTT - AUCTION	\$ 5.00
KEN ADAMS - AUCTION	\$ 104.00
R. BRUCE STEWART - AUCTION	\$ 30.00
TIN EASTERDAY - AUCTION	\$ 9.00
DONATION - ???	\$ 1.00
JACK FREEMAN - AUCTION	\$ 35.00

TOTAL INCOME... \$ 214.00

DISBURSEMENTS...

R. BRUCE STEWART FIELD DAY FOOD	\$ 304.85
TIPP CT'Y COMM - 95 HAMFEST DEP & RENT	\$ 550.00
R&L ELECTRONICS - 95 HAMFEST PRIZE DUAL BAND HT	\$ 225.00
US POSTMASTER 95 HAMFEST MAILINGS	\$ 171.00

TOTAL DISB... \$ 1250.85

The 24th Annual
LAFAYETTE HAMFEST
Sunday, August 20, 1995
Tippecanoe County Fair Grounds
1401 Teal Road, Lafayette, IN.

Parking.....FREE Tickets\$4.00 Children under 12..FREE Indoor/Outdoor Space Available Food And Drinks Available Handicap Accessible TALK IN: 147.135+/443.775+	Tippecanoe Fair Grounds Teal Road, Lafayette, IN. Saturday Setup --5:00 PM TO 8:00PM. (In doors only) Sunday doors open at 6:00 am VE Testing 12:00 Noon To 2:00pm @ The Red Cross, Lafayette IN. Cost is \$5.90 All License Test Given. You must have a Photo Copy of your Original License and a Photo ID. Walk in's Welcome
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For Information Contact: Bruce , N9GKE
@ 317-742-2367 , or Bruce Stewart
5 Adina PL., Lafayette, IN. 47905

**No Camping, Overnight Parking or Alcoholic Beverages
Within the Fairgrounds**

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1995 ARRL Field Day Report

Submitted by: KF9UP

Under the direction of Club Vice President Bob Martin, W7YE, Club members and visiting radio operators successfully put W9REG on the air June 24-25 for Field Day 1995.

The field day site this year was again located at the Indiana Veteran's Home, West Lafayette, Indiana. Brenda Williams, N9XTL, of the Veteran's Home staff made the arrangements for us this year.

Number of people participating 45
Visitors 20

W9REG operated "2A IN":

"2" HF transmitters on the air.

"A" club/group portable

"IN" is the ARRL Section from which we transmitted

Band	CW	Phone	
160	0	0	
80	68	104	
40	218	139	
20	95	272	
15	158	13	
10	0	0	
6	0	39	
2	0	23	
SAT	0	0	
PACK	4	0	
Novice	0	75	
TQSO	543	665	
Pts	x2	x1	
Total	1086	+ 665	= 1751
Transmit power <150W			x 2
Total			3502
Bonus points			1090
Grand Total Points			4592

Bonus Points	
100% Emergency Power	200
Media Publicity	100
Located in Public Place	100
Message Origination	100
Message Relay	30
Satellite QSO(Min 1)	0
Natural Power(Min 5)	100
W1AW Message	100
Packet Radio(Min 1)	100
VHF/UHF(Min 10)	100
ARRL member bonus	160
Total Bonus Points	1090

Field Day scores (Past and Present):

1985	816 contacts, 2212 points
1986	228 contacts, 966 points
1987	561 contacts, 1584 points
1988	525 contacts, 1074 points
1989	477 contacts, 1782 points
1990	570 contacts, 1646 points
1991	1087 contacts, 3688 points
1992	731 contacts, 2596 points
1993	830 contacts, 3218 points
1994	819 contacts, 3522 points
1995	1208 contacts, 4592 points

Operators, Loggers, Helpers and Visitors

K9AHX	John Ott
KB9BJW	Ken Adams
WA9CGN	Fred Stambaugh
KG9CK	Tim Easterday
KF9CT	Jack Freeman
WB9CZC	Dave Azpell
KB9FKF	Don Ault
K9FN	Dave Bunte
N9GKE	Bruce Stewart
WA9HKK	Fran Hudlow
KE9IT	Dave Roberts
KB9IJJ	Steve Kaiser
WD9JLN	Charles Bressler
KB9JPT	Irving Wynn
K9JWI	Clyde Mauck
K9KF	Tom Kueapert
KB9KHM	Mark McGregor
K9KRE	J B VanSickle
KB9KUQ	Jack Kueberth
KC9LI	Bob Niewerth
N9LJX	Scott Stambaugh

K9LYA	Jim Collison
N9MIH	Glenn Ward
WN9NBT	Dave Chasey
N9NWO	Greg Dean
N9QAP	Steve Scherer
KD9SF	Brad Lovett
WB9SGP	Steve Belter
WB9SWD	Curtis Sherwin
WA9TGO	Jim Canarecci
KA9TJB	Jack Bessler
KF9UP	Jeff Stewart
WB9USL	Margret Weber
N9VCO	Mike McDonald
N9VLW	Charlie William
KA9VXS	Kevin Crow
W9WQS	Rex Thomas
KF9WX	Tim Gennett
N9XTL	Brenda Williams
N9XTM	Mike Kaiser
N9XTN	Mark Conner
W7YE	Bob Martin

WB9YPG	Mike Osborne
N9YTE	Ed Deip
N9YTF	Ralph Kelley
N9ZFH	Bob Lively
N9ZND	Jim Darling
	Scott Gresser
	Deb Jakes
	Diane McDonald
	Kevin McDonald
	Graeme Mason
	Randy Nacke
	Matt Phelps
	Judy Roberts
	Kathy Shepard
	Kathy Stewart
	Wendell Solomon
	Chris Ward
	Mr. ? Ward
	Amy Higgins (J&C)
	Ali Broach (Leader)

Field Day 1995 Report (continued)

Submitted by: KF9UP

This year the Field Day site was once again located on the bluff at the Indiana Veteran's Home on North River Road, in West Lafayette, IN. This is a very good site. The grounds are well cared for and an open field surrounded by tall trees provides a great place to hang a large loop and several other wire antennae. There is plenty of parking available and it's a public place (100 bonus points).

The weather cooperated pretty well this year. Rain Friday night made the ground wet Saturday morning, but mostly sunny skies and warm temperatures prevailed during the daylight hours and the evening storms went around us for a change.

Setup started on Friday afternoon and ran into the evening. Antenna placement and construction were the major projects undertaken. Curtis, WB9SWD, practiced his archery skills by shooting arrows into the trees and Dave, KE9IT, was seen dragging around a step ladder and slinging lead weights into the air. Both methods seem to work well when the fishing line didn't get tangled.

Glenn Ward's father and brother had volunteered to deliver the TARA trailer, but ran into problems when one of the tires decided not to cooperate. They removed the blown tire, no small feat in itself, and Mike Kaiser, N9XTN, picked up a new tire which he helped them install. Mike then pulled the trailer to the Field Day site.

Saturday morning, several people met at Christo's for an early breakfast and setup resumed just after 7:00am as the tower was erected, radio equipment was installed and final preparations were made.

It was decided that the TARA trailer would be used for the SSB operation utilizing the Club's Corsair and the horizontal loop. Unfortunately, the Corsair had problems and had to be replaced by W7YE's Yaesu. Curtis, WB9SWD, supplied a deep cycle battery which had been charged from solar cells to provide power for most of the operating period.

W7YE, Dr. Martin, brought his operating trailer out for the CW operation. Two Lazy-H antennas were constructed for the CW station and installed 90 degrees to each other. Tim, KF9WX, provided his Kenwood rig for CW when Bob's Yaesu was moved to the SSB station.

The Club's packet and Yaesu all-mode were used for UHF/VHF operations using antennae mounted on the crank-up tower and a 6 meter dipole. Several 2 meter and 6 meter contacts were made as band conditions seemed to be favorable.

Satellite operations were restricted this year. The 2m/70cm satellite wasn't available and we were unable to make any contacts via satellite.

The main power source for operations came from gasoline powered generators. Mike, N9XTM, was in charge with help from Jack, KB9KUQ, Dave, WB9CZC, Steve, WB9SGP, and maybe some others as well.

Computers, loaned to us by Mike, N9XTN, and Bob, W7YE, were used for logging during the competition. The software "CT" by Ken Wolf, K1EA, was used again this year. It seems to do a very nice job; however, some of the functions were not obvious and additional instructions on its use probably need to be provided.

Bruce, N9GKE, and his wife, Kathy took charge of the nourishment for this year's event. The main meal consisted of steak, corn on the cob, potatoes au gratin, a variety of drinks and excellent service. Several desserts were also available, provided by assorted Club members (or their spouses). Jim, K9LYA, once again supplied biscuits and sausage gravy for the Sunday morning meal.

After the evening meal, a TenTec Triton IV belonging to KF9UP was set up on one of the picnic tables. Using the Lazy-H not currently in use by the CW station, WB9SWD, ran a Novice station on 10 meter SSB. Although rain threatened, he worked well into the evening making several contacts before shutting down for the night. Sunday morning, the station was back on the air and more operators made more contacts.

Several visitors attended again this year and we may be seeing some new faces at the next testing session. A visitor's log and sign-up sheet was located at the TARA trailer, but few operators actually signed it. Therefore, the attendance list was mostly made from memory — I hope I didn't miss too many people.

Operations ended Sunday at 13:00 with over 1200 contacts having been made. The clean up followed and several people stayed around to help. With the exception of one rope which had to be coaxed GENTLY out of the trees, things went smoothly and the site was vacated.

Business Meeting Attendance - July 11

K9AHX	John Ott	KF9CT	Jack Freeman
N6CXB	Bob Finch	WB9CZC	Dave Azpell
WD6DSJ	Jon Wiggin	N9GKE	Bruce Stewart
KE9IT	Dave Roberts	WD9JLN	Charles Bressler
K9JWI	Clyde Mauck	K9KF	Tom Kuespert
KB9KNR	Mike Budzinski	KB9KUQ	Jack Kueberth
K9LYA	Jim Collison	N9MIH	Glenn Ward
W9NSY	Roger Airgood	N9NWO	Greg Dean
WB9SWD	Curtis Sherwin	KF9UP	Jeff Stewart
N9XPZ	Sam Brummett	N9XTN	Mark Conner
W7YE	Bob Martin	N9ZND	Jim Darling
WB9VAL	Robert Smith		

4H Model Rocket Shoot - July 14

KB9JDJ	Gene Rausch	N9ZVM	Adam Rausch
WB9CZC	Dave Azpell	WD9CJS	Dick Collison
KB9JIK	Jon Crispen	KF9UP	Jeff Stewart
	Jason Collison		

Antenna height and communications effectiveness

By Ron Moorefield, WBILC and ARRL

Amateur radio communications between two distant points on the earth rely on signals propagating through the ionosphere. Acting as somewhat of a mirror at heights in the order of 150 miles, the ionosphere returns signals to the earth a thousand or more miles away.

The vertical angle of radiation is the key factor in determining effective communications distances beyond line of sight. For the greatest possible communications distance, the energy from the transmitter must be radiated at angles close to the horizon. For this to take place, a horizontal antenna must be placed high above the ground in terms of wave-lengths. The length of a radio wave is inversely related to its frequency.

A beam type antenna at a height of 70 feet or more will provide greatly superior performance over the same antenna at 35 feet, all other factors being equal. To a distant receiving station, a transmitting antenna at 70 feet will provide the effect of approximately three to four times more transmitter power than the same antenna at 35 feet. Depending on the level of noise and interference, this performance disparity is often enough to mean the difference between making a distant radio contact with fairly reliable signals, and being unable to make distant contact at all. Thus the antenna at 35 feet is unsatisfactory, while the same antenna at 70 feet is quite satisfactory. The 70-foot height is used only for the purpose of illustration, however, and should not be construed as the optimum height for antennas. Heights above 100 feet will give significantly better performance than that at 70 feet.

If an amateur radio operator is restricted to the use of low antennas, it is reasonable to assume he will obtain more powerful transmitting equipment to compensate for the loss of antenna effectiveness. For example, he might increase his transmitter power from 500 watts to 1.5 kilowatts to compensate for a three-fold loss in antenna effectiveness because of height limitations. This increase in power, in turn, increases the possibilities for his signal to overload nearby television and radio receivers, creating interference for viewers and listeners.

A high amateur antenna provides a greater degree of immunity from television interference than does a low antenna. The solid source of radiated RF energy from the amateur radio station is its antenna. Raising that antenna to an increased height, well above the level of existing antennas for television reception, will reduce the possibility of interference to television reception from fundamental overload.

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The back door slammed and the little boy came into the kitchen, threw his baseball glove down on the floor and stood there on the verge of tears. "What in the world is the matter?" his mother asked. "Did you lose the game?"

"Worse than that," the little fellow sobbed. "I was traded."

"Now, now," his mother said. "That's all part of the game. Sometimes even the world's greatest baseball stars are traded. Why should being traded upset you so?"

"Because," the little boy said. "I was traded for Harry's 6-year-old-sister."

President's Column

Okay, I'll declare Field Day 1995 a success. There were a few problems, but the result was a terrific Field Day. Lots of contacts, great fellowship and terrific weather. I want to thank everyone who participated this year. Whether you helped set up, operate, log, clean up or just stopped by to visit, it was good to have your support. I also want to thank Bob Martin, W7YE, who took care of organizing this year pulling it all together. Also, thanks to Bob Finch, N6CXB, Curtis Sherwin, WB9SWD, and Dave Roberts, KE9IT, who spent time experimenting with antenna setups prior to Field Day to find out what would work. And finally, a big thank you to Kathy and Bruce Stewart, N9GKE, for purchasing, delivering and preparing the food for Field Day. Everything was terrific. A lot of work goes into Field Day and the more everyone participates, the better everyone feels about the results.

Someone lost a watch at Field Day. I expected someone to contact me about it, but haven't heard anything yet. If you lost a watch or know someone who might have, let me know. I'm sure someone would like to have it back.

This month's program meeting will be a discussion of this year's Field Day activities. If you have ideas about what we can do better or ways to improve for next year, try to make it to the meeting on July 26th.

I want to thank Tim, KF9WX, for taking care of ordering the Club shirts. They look great. It was nice to see them at Field Day and will be nice to see them again at the Hamfest. If you didn't get a chance to order a shirt and would still like one, let Tim or I know. If there is enough interest, we might be able to place another order before the Hamfest.

At the last Club meeting, I convinced Glenn, N9MIH, to climb the tower and free the dipole. Thanks Glenn. I hope to get the dipole ends back in the air later this week.

The TenTec Corsair had a problem which Bob Finch, N6CXB, agreed to look at. Bob has looked at the rig, fixed a problem, and done some alignment. There are a couple things he still wants to look at, but it sounds like the rig may be in pretty good shape again.

It's not clear what caused the problem with the Corsair. It might have been caused by operating into a bad antenna or it might have been caused by static discharge. Someone said they have found the antenna still connected when they've opened the room. If you use the Club station, please be sure to kill the power and disconnect the antennas when you leave. Also, if you have questions about operating any of the equipment, please ask. And, if you find a problem with any of the equipment, please let a Club officer know as soon as possible so it can be looked into.

And finally, the Hamfest is next month. We'll need people on Saturday to help set up, and on Sunday to man the gates and help clean up. Be ready to sign up at the next meeting and I'll see you there.



KF9UP

W 9 A S X
Glen Rogers

As you probably known by now, our one (& only) Honorary Member passed away last week. We hope to print a summary of his life's accomplishments in the next issue.
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NEW MEMBERS

] Bradley Al Clayton KB9KCH
103-6 Married Student Courts
West Lafayette 47906 743-3307

David Hoppes
Route 1, Box 14 385-2305
Pine Village 47975 358-2937

Kivin Mc Donald
2540 Plains Drive
Lafayette 47905 474-6939

Gordon L Amos KB9KNP
704 Paradise Avenue
Lafayette 47905 447-6470

John (Jack) Kueberth KB9KUQ
1404 Holloway Drive
Lafayette 47905 477-6345

Mike Budzynski

Bob Smith WB9VAL
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I have not confirmed this, but I suspect that Carole, WB9WLL, had as much, or more, to do with the Sunday morning breakfast than did K9LYA. My apologies to Jim if I am incorrect. K9KRE

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A young sentry, on guard for the first time, had orders not to admit any car unless it had a special I.D. seal. The first unmarked car the sentry stopped contained a general. When the officer told his driver to go right on through, the sentry politely explained, "I'm new at this, sir. Who do I shoot first, you or the driver?"