

# Cobra Masts



### 4035-R PACIFIC HIGHWAY SAN DIEGO, CALIFORNIA 92110 PHONE (714) 295-8887

Cobra Masts have been out since 1969, since then they have been used on Snipes that have captured almost every major Snipe regatta in North America. They were used by the 1969 and 1971 world champion. In 1971 they dominated with 1st, 2nd, 3rd and 4th places.

They were used in winning the 1969, '70 and '71 U.S. Nationals. In '71 they were 1st, 2nd, 3rd, 4th, 5th and 6th.

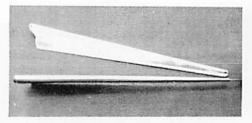
They were used by the winners of the last 2 Jr. Nationals, in '71 they were 1st, 2nd, 3rd, 4th and 5th.

They were used by the 1970 and '71 North American Champ (Cork).

They were 1st, 2nd, 3rd, 4th and 5th in the 1971 Midwinter Circuit (Nassau, Miami and Clearwater).

In 1972 we are introducing the Cobra Boom. It is very light and provides the stiffness required to keep the leech of the main tight on a reach. Bendy booms waste power.

The 1972 Cobras will also have some new equipment —



The spreaders are now of polished stainless steel, they weigh under 8 oz. per pair as compared to 17 oz. of the aluminum type we used before. Price \$12.00 pair



The gooseneck is all stainless steel. It is much stronger than the old aluminum one. Also it will not freeze up when used in salt air. Price \$12.00 MAST PRICES

Unrigged with Hardware — Hardware includes goose neck, spreaders and bands. Bottom cup, main halyard sheave and hound fitting with jib halyard sleave.

### \$200.00

Rigged with shrouds, halyards, halyard locks, bands, bottom of shrouds must be finished by you to fit your boat.



### ELMS SAILS

**Can you buy one set of sails to cover all racing conditions?** Yes if it's an Elms. The new sails that we have been manufacturing the last part of 1971 have proved to be excellent all weather sails. Our 1971 No. 1 model seemed to get faster as the wind increased, so we went to work on it and tried to improve it's light air performance.

We were able to make them considerably faster in light air without hurting the medium and heavy air performance.

The proof comes from the World Championship in Brazil. The conditions were from 45 MPH down to a vacuum. Elms Sails consistently were the best, winning 5 of the seven races and getting 5 of the seven seconds. The over all performance for us was 1st, 3rd and 4th. The second boat used a combination of two sailmakers, main by one, jib by another.

This last year we also got our 5th straight U.S. National Championship. Together with a 4th showing, made our sails the most consistent there. This regatta was very light.

The Juniors had wind up to 20. Elms Sails got 1st, 2nd and 4th.

The Nassau Midwinters were heavy. Elms Sails got 7 straight firsts, capturing 1st and 2nd in the championship.

These sails were all 1971 No. 1's except for the 3 boats that did well in the Worlds. They had 1972 models. Their performance would warrant you buying the new all purpose Elms Sails in 1972. We are calling them the 1972 No. 1.

PRICE — \$185.00 with window and glass battens, bag and no. Plus Royalty (U.S. only) — \$5.00 per sail, \$10.00 per suit

ELMS SAILS

4035-R PACIFIC HIGHWAY SAN DIEGO, CALIFORNIA 92110 PHONE (714) 295-8887

# **GANCEDO WINS AGAIN AT MALLORCA**

This year's traditional Easter Regatta achieved a record entry, with 96 boats lined up for the start of the first race. Together with a massive Spanish participation, there was a notable Scandinavian turnout, headed by the Danish, Norwegian and Swedish champions.

Such a large number of entrants posed problems for the race committee and it was necessary to repeat the start of each race up to three times, despite the application of the lastminute rule.

It proved possible to run only four races, as lack of wind forced cancellation of the fifth race. The winner of all the events, and therefore of the XXII PALMA TROPHY, was Felix Gancedo with "Gran Numa" who, as will be recalled, achieved a magnificent third place in the Worlds in Brazil. Gancedo was accompanied by his present crew, Rafael Parga, as owing to the change of residence of A. Burgos the latter and Gancedo have had to separate.

In Palma de Mallorca he displayed once again his absolute superiority over all other Spanish Snipemen. We would venture to say that, at the present time, he is probably the best European Snipemen. He dominated in all types of winds and imposed himself with complete confidence, even in races in which he did not get off to a particularly brilliant start. It cannot be said that his boat is faster then the others, it is his intuition, his skill in tacking, his faultless racing tactics and case of handling which, added of course to a careful and correct preparation of his Snipe, make him at the present time a very difficult rival to beat in European waters.

After the "number one", the performance of Arturo Delgado, National Snipe Secretary for Spain, was noteworthy on the Spanish side, having been classified second after having practically held the lead throughout the races. On the foreign side, Nils Toftgaard and Jan Person, as was expected, had brilliant performances, although the latter did not reach the standard achieved last year. Niels, on the other hand, gave better performances and in the last race had Gancedo seriously worried.

As regards equipment, all kinds of boats, masts and sails could be seen and above all it was observable that the average standard of equipment used in Spain is now of a truly noteworthy quality.

	GRAN NUMA	F. Gancedo-Parga	SPAIN	0.0
	FADO	A. Delgado-Cervera	SPAIN	27.4
	SKIPPERS	N. Toftgaard-Greiffenberg	DENMARK	33.0
	VIKINGO	Belles-Fondevilla	SPAIN	33.0
5.	SEBASTIAN	Person-Tarsen	DENMARK	33.7
6.	PIGGE LUNK	Rost-Rudberg	SWEDEN	
7.	KATANKANTAS	H. Costas-Felip	SPAIN	37.7
8.	JANI-KUKA	J. Costas-Robles	SPAIN	41.0
9.	MENORCA	Nadal-Cominges	SPAIN	44.0
10.	BLUE NOTE	Christiansen-Gensen	DENMARK	46.0
11.	SCHAULA VI	Oliver-Bibiloni	SPAIN	48.01
12.	BLUE MASCOT	Samuel Sson-Lundh	SWEDEN	50.0
	CURAN	Landreus-Landreus	SWEDEN	51.7
14.	TOPY	Bosch-Cisa	SPAIN	55.0
0.00	TOPY BENASQUE II	Anglada-Vicens	SPAIN	60.7
	MARLON BRANDO POLLUX	Gothlin-Gothlin	SWEDEN	66.0
17.	POLLUX	Domenech-Gomis	SPAIN	68.0
18.	GRECO	Uillen-Bercun	SPAIN	71.0
19.	LA SIERPE II	Svenssen-Fransson	SWEDEN	71.0
	SIRPY	Matheu-Mayol	SPAIN	74.0
		20 0696		





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- \* All Fiberglass for minimal Maintenance
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Levinson

Sails

## SNIPE BULLETIN

SNIPE CLASS INTERNATIONAL RACING ASSOCIATION

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### THE COVER----

Fred Thurston and David Lawson were on hand to help Bermuda celebrate its 350 th anniversary. The photograph shows that they were greeted with heavy winds.

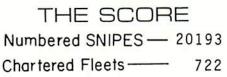
### BAPS

BAPS stands for Building A Plywood Snipe written by Harold Gilreath in 1961 to replace Bill Crosby's book. BAPS is an extremely fine book on building a Snipe as well as a guide to rigging. Many boats have been built with the aid of this book.

With the advent of weight reduction and change in the cockpit configuration as well as new methods of rigging a supplement was needed. Harold provided this to SCIRA with the help of John Call and we are publishing this addenda in this issue. Henceforth, all copies of BAPS will be provided with this addenda. Thanks to Harold and John.

### WORLD CHAMPIONSHIPS

Word has been received from Arturo Delgado, National Secretary of Spain that the World Championships will be held at Malaga in 1973. The dates have not been set but will probably be in October. This will be the first time the World Championships will be held under the new rule increasing the number of contestants from one to two per country.



June was an unusual month in the number department. 166 numbers were issued. Japan took a batch of 150 and this followed the 150 they got last fall. Other numbers issued this month were U.S. 9, Brazil 5, and 1 each to Portugal and England.

### THE COMMODORE SAYS

The U.S. Olympic Trials for the International Finn Class were conducted with boats which were made as identical as possible. Each of the 38 competitors had new identical aluminum masts and booms and new identical sails. Although the helmsmen were permitted to use their own boats, the boats themselves conformed to the letter and intent of the International Finn Class. For all practical purposes, this meant they too were identical, so the trials were as much as possible, a test of sailing skill, rather than equipment or speed.

### THOUGHTS WHILE SAILING

During the past several years there were some indications that the class was not continuing to grow as it had done in the past. However, it appears that activity is now growing by leaps and bounds. One evidence is the numbers being issued. Last year we issued 612 and 401 in the first six months of this year. It is a sellers market in used Snipe. Many areas are in dire need of good used boats. Hopefully, this problem will be solved as more new boat owners put their old ones on the market. Dues are coming in much more rapidly this year and attendance at regattas is way up from last year.

All of which sound like excellent news to us. We hope it strikes you in the same manner.

Of course, everyone knows that in the past there has been a tremendous difference between the very good and good Finn helmsmen, in terms of how much faster the very good helmsman was. Now, except under extreme conditions, this differential has been decreased. This brings me to the point that the International Snipe has always had extremely close competition, in terms of speed differential. At many of the World Championship races for instance, there is little time and distance separating the first from the last boat.

The primary reason for this lies in the boat, not the skipper and crew. TheInternational Snipe must conform to class measurements. This means that portions of the hull or deck must be removed, or added to if necessary. It means that the hull must meet the minimum weight at the time it is built and lead added, if necessary, not to exceed the amount allowed. after the boat is built. Making the boats as identical as possible in this manner is one way of assuring close, one-design competition. It would follow, therefore, that and further weight reduction in the hull would be unwise. Consider the Finn for instance. It was designed in 1951, at an all up weight of 319 pounds. This weight has never been changed and there is no contemplated change. The Snipe, now at 381 pounds is light enough yet strong enough to last many years. Half of the Finns raced in the US Olympic trials were more than 8 years old. This is a significant point. SCIRA measurement rules must continue to assure that all Snipes, new or old, are competitive!

### WAYNE SOARES TAKES BERMUDA RACE WEEK FRED THURSTON 2nd, SONNY DE COSTA 3rd

Unusually high winds and rough seas dominated the 1972 International Race Week in Bermuda, April 24-29. The Snipes performed well in winds that averaged from 18-25 m.p.h. and 3 ft. seas.

Thirteen Snipes, 7 from Bermuda and 6 from the United States competed for the 350th Anniversary Trophy. The trophy, an English Silver Cup with a Bermuda Cedar base, commemorating the 350th anniversary of the colonization of Bermuda, was presented to the Snipe Class by the Royal Bermuda Yacht Club in 1959.

Rugged Bermudian skipper Wayne Soares and his agile crew Larry Lindo placed first in the series with 5 points. Pressing them, Fred Thurston and crew David Lawson both of Sea Cliff, New York had 10<sup>3</sup>/<sub>4</sub> points. Sonny DeCosta of Bermuda finished third with 33 points.

In the first race, sailing the modified Olympic course, Thurston led the fleet to the weather mark. Bermuda's champion Sonny DeCosta took over for the next three legs and Wayne Soares moved up to challenge. In the ensuing battle, both overstood the final mark and Thurston slipped across the finish line ahead.

The second day's 25-knot South-Southwester with gusts in the high thirty's with running seas discouraged most of the Snipe sailors from venturing out. They requested a make-up race the following morning.

Wednesday dawned much the same, with even higher winds. Only three boats heroically finished – Soares first, Thurston second, and Arthur Mullin of Bermuda third. The race committee cancelled the afternoon program for the larger classes.

Wayne Soares captured first again in an exciting third race in which he and DeCosta competed for the lead while Thurston and Tom St. John dueled it out yards behind. The final line-up was Soares, DeCosta, Thurston, and St. John.

In the two races held on Friday, Wayne Soares again mastered the tricky wind conditions and took a commanding lead in the series with two more victories. Fred Thurston followed with a 3rd and a 2nd.



Wayne Soares shares 1st place trophy with his crew Larry Lindo as 2nd place winners Fred Thurston and David Lawson look on. L - R Thurston, Lindo, Soares, Lawson. Photo by Joan Lawson.

Perhaps the most impressive part of the entire week was the warm hospitality of the Bermudian hosts who made every effort to make their guests feel welcome. Many Snipe fleet members opened their homes to the American visitors and the U.S. boats were shipped gratis at the courtesy of the Bermudians.

The Bermudians are looking forward to even greater participation in the regatta next year. The Royal Bermuda Yacht Club is contemplating holding the event in May in hopes of having more moderate winds. International Race Week is a perfect way to combine competition and a holiday.

Joan Lawson

	BOAT	SKIPPER	FLEET	1	2	3	4	5	Pts.	Fin.
	KB19111	Wayne Soares	Sp. Point	2	1	1	1	1	5	1
	US19177	Fred Thurston	Sea Cliff	1	2	3	3	2	10%	2
	KB11777	Sonny DeCosta	Sp. Point	3	NS	2	2	NF	33	3
	KB19708	Raymond Pitman	Sp. Point	10	NS	7	4	3	37	4
	KB16455	Arthur Mullin	Sp. Point	NF	3	11	7	4	38	5
	US19199	Ralph Swanson	Winchester	7	NS	5	5	NF	43	5
	US12021	Herb West	Atlanta	6	NS	9	6	NF	43	0
	US19253	Tom St. John	Quassapuag	5	NS	4	NS	NS	48	0
	KB17237	Stevie Soares	Sp. Point	8	NS	6	NS	NS	53	9
	KB19703	Richard Todd	Sp. Point	4	NF	NF	NS	NF	56	10
	US16551	A. Austin	Bantam Lake	9	NF	10	NS	NS	58	
	KB18881	Carlos Bosch	Sp. Point	11	NS	8	NF		100 C	11
١	US15314	Tom Forrestel	Nedina	12	NS	12	NS	NF NS	58 63	12 13

### Basic Snipe Sailing Manual

Intended for beginning Sniper, crew, and wives, this excellent manual (6"x9") is a glossary of nautical terms with a sketch applicable to Snipe; knots with illustrations; handling the boat; tacking; running; reaching; jibing; heave-to; capsize; all simplified rules; thumb nail tactics; check list; important Snipe measurements. A most valuable handbook - still not complicated. 75c @ copy-10 for \$6.00. From SCIRA only.

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# BUILDING A PLYWOOD SNIPE ADDENDA

It was an interesting experience for me to review BUILDING A PLYWOOD SNIPE almost 10 years after building Snipe No. 12345 and writing this book. There were many gratifying experiences associated with this project and the review permitted re-living some of them.

This review was prompted by the recent rule changes which permit lowering the minimum weight, increasing the size of the cockpit opening and lowering the trunk height. I have provided general comments which will assist the builder in constructing a Snipe to the new lower weight limit.

John Call, Jr. provided the additional drawings which provide the builder with more detailed information. I wish to thank John for his assistance and interest.

Harold L. Gilreath

### GENERAL COMMENTS

- 1. Use minimum thickness plywood. The 3/8" plywood I used in 12345 was approximately 13/32" thick 1/32" thicker than necessary.
- 2. Minimize the deck frame and stringer weights. Do not use 3/4" plywood for deck frames, use sitka spruce.
- 3. Do everything possible within the current rules to minimize the weight of material installed in the bow and transom, and I mean everything. Study every detail carefully You want the weight of your Snipe centered as much as possible and also, as low as possible.

### SPECIFIC REFERENCES

- 1. Add flotation to satisfy the current rules as outlined in paragraph 56 of rules.
- Check the current Measurement Data Sheet for additional dimensions on stem shape. Ref. page 11, plate 2; and page 15, plate 6.
- 3. Cut down the trunk per the revised drawing. Use minimum dimensioned material for all component trunk parts per current rules. Use sitka spruce, well dried, where possible. Ref. page 16, plate 7.
- 4. Make stem as small and light as permissible by the current rules. Ref. page 24.
- 5. Use ¼" plywood frame gussets. Ref. page 29, plate 15; page 30, plates 21 and 22.
- 6. Minimize the cross section of the sheer clamp. Ref. page 60, plate 29.
- 7. Increase the cockpit width and length per the revised drawing. Ref. page 59, plate 28.
- Eliminate the mast step on deck. Install step on keel. Ref. page 61, figure 54.
  Use minimum thickness plywood on deck. Ref. page 64, chapter 9. Also use three
- 4' X 8' sheets. The job is too much trouble with only two sheets.
- 10. Minimize cockpit molding. Ref. page 68 and 69.
- 11. Use No. 8 X 1" flat head, stainless self tapping screws to install deflector rails, maximum spacing to obtain installations of rub rail and deflector rails.
- 12. Minimize the thickness of the spray rail probably  $\frac{1}{2}$ " thick. Use spruce or other light weight wood instead of mahogany. Ref. page 75, plate 36.
- 13. Use a Proctor "E" or similar dimensioned small section aluminum mast, stepped on keel. Ref. page 76.
- 14. Avoid the use of winches in the mast for halyards. Ref. page 28.
- 15. Use sitka spruce for a rudder blade and stiffen with sitka spruce. Minimize fore and aft rudder blade dimensions and minimize entire rudder weight. Ref. page 85, plate 41.
- 16. Use light weight blocks such as the Harken Dinghy blocks for mainsheet and other block applications. Ref. page 84, figures 71 and 72.
- 17. Minimize the mounting structure for mainsheet cam. Ref. page 91, figure 81; page 92, figures 84, 85, and 87.
- 18. Make floor boards according to the weight needed to satisfy the new minimum required weight values.

NOTES

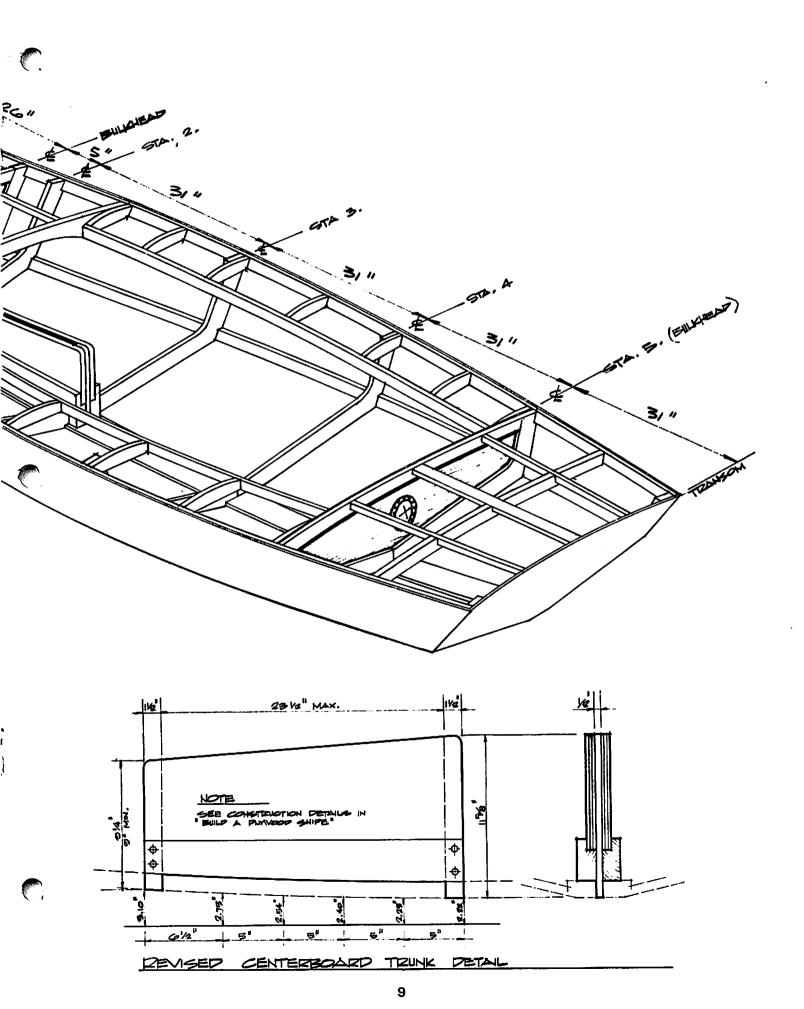
This drawing is for the purpose of making clear the rule changes affecting hull construction effective January 1, 1971. \*

- 1. The forward end of the cockpit shall not be forward of a point 1 inch forward of the forward end of the centerboard slot. (Recommend taking the cockpit opening as far forward as possible).
- 2. The centerboard trunk shall not be less than 9 inches in height measured from the bottom of the keel. (Recommend building the trunk as shown below as experience has shown that a lower trunk tends to slop water aboard at the after end.)
- 3. After being swamped and righted and while supporting an additional weight of 300 pounds, the hull shall float with a minimum of 6 inches freeboard. (Recommend: Install watertight ½ inch plywood bulkheads at station 5 and 5 inches forward of station 2. To prevent ends of hull from filling in the event of capsize as shown in drawing at right. Provide access ports in each bulkhead for bailing, ventilating, etc. Additional floatation in the form of plastic air bags strapped securely to the bottom of the hull under each side deck and running from bulkhead to bulkhead may be required.

STATION

4 470

- 4. Hulls should be built to cope with a future minimum weight of 381 pounds. (Recommend: Finished decked hull with no equipment or hardware should weigh about 305 pounds. Every weight reducing technique allowable under the rules including deck framing shown at right must be used to accomplish this. Use of lightweight "Okume" (Ok-U-May) plywood available from Harbor Plywood Corp., Baltimore, MD., will help a lot.)
- 5. The cockpit shall not exceed 40 inches in width. (Recommend: Some disagree but most prefer maximum width for best appearance, make sidedeck uniform in width. This also simplifies sidedeck construction.)
- These suggestions consider the practical effect of the Rule changes only.
  Consult Rules for the actual wording.



## **1971 POINT SCORE RESULTS - CONTINUED**

							tata Namad CA	10	1201 2
14674	W. Dennes	Grosse Pt, MI	13	1428.9	16289	Jim McFaul	Lake Merced, CA		1381.2 1481
15700	Charles Watts	Crystal Lake, IL	22	1428.8	9310	Jack Michel	Onondaga, NY		1381
10327	J. Ainsworth	Cheshire, England		1428.1	14636	Susan Stafford	Onondaga, NY Chicago, IL		1381
16144	Don Eriminas	Bantam Lake, CT		1428	14655 11752	Lee Shames	Keuka, NY		1380.7
17392	Joel McMinn	Portland, OR		1426.1 1426	16608	Joseph Buck Jerry Peterson	Indianapolis, IN	-	1380.62
13676	Dan Webster	Dallas, TX Mandatack Canada		1426	8200	Andy Zimmerman	Sea Cliff, NY		1380.4
13479	Ronald McClorry	Woodstock, Canada Cheshire, England		1425.5	11108	Tom Ryan	Wall Lake, MI	21	1380.3
15296 14241	R. Totten Ernie Moore	Wall Lake, MI		1425.2	19028	John Knoll	Chicago, IL	9	1380.2
11621	Gary Pierce	Wichita, KS		1424	17676	Houston Mount	Tulsa, OK		1380
14759	William Minzner	North Cove,NH		1423.1	14967	Jim O'Brien	Iowa-NB SA		1380
14379	George R. Ference	St Simons IS. GA	7	1423	10322		Tulsa, OK	7	1377.8
15580	Ken Šplawn	Weatherby Lake, MO	12	1422.2	15505	Bryson Lesley	PYC, TN	24	1377 1377
17924	Hanns Hagen	Weatherby Lake, MO	11	1422	14675	Ron Lewis	Onondaga, NY Acton Lake, OH	21 11	1376
16944	Dan Bockelmann	Iowa-NB		1422	10669 16789	George Kibler George Timoff	Pontiac, MI	5	1375
4164	Julian Cohen	Cranston, RI		1421 1420.4	16224	Herb Dakin	Decatur, IL		1374.6
14973 17679	Jim Wolfard	Portland, OR Cranston, RI		1420.3	14954	Pete Szezebak	Onondaga, NY	11	1373
	Greg Wilson	-			9020	Don McFarland	Dallas, ŤX	19	1372
18423	Lavern Stubberfield			1419.3	11467	Skip Gilbert	Richmond, IN	7	1370.9
16732	Rod Goldstein	Peoria, IL		1419.2	18319	James Noelke	La Crosse, WI		1370.87
15117	Neal Fendig,Jr.	St. Simons, GA	7	1419	16977	W. Cox	Grosse Pte, MI	7	1370.6
17718 10880	Perry Pelley	Wichita, KS Momphic TN	6	1419 1417.5	16199	Jim Smith	Seattle, WA		1369.33 1369
14702	Dease Ryan Alan Robinson	Memphis, TN La Crosse, WI		1417.5	16687	Bill Wilson	Tulsa, OK Onondaga, NY	7	
16824	Robert Wrightman	Keuka, NY		1415.3	17622 16069	Sam Garber R. M. Ridings	Galway Lake, NY	16	1368.9
15509		Lincoln, IL		1414.3		Jerome Furey, Jr.	Euclid, OH	18	1368.5
16181		Lake Mohawk, NJ		1414	17748		Winfield, KS	28	1367
8571	Charles Ulrich	Chautauqua, NY	11	1412.4		D. Elliott	Cheshire, Eng.	22	1365.54
17741		Tulsa, OK		1412	18110	Donna Leber	Chillicothe, IL	6	1365.1
14014		Atlanta, GA		1411.5	17759	Dick Hart	Lake Merced, CA	17	
9985 16837	Mary Ann Rix	Wichita, KS		1411	15579	Jim Uhl	Grand Rapids,MI	-	1363.17
	Charles Nelson Stuart Griffing	Tulsa, OK Cincinnati, OH	9 8		16237		Peoria, IL	5	1362.6 1361.7
12001	Bill Jackson	Dallas, TX		1410	14583 17768		Wall Lake, MI Annapolis, MD		1361.29
16333	Dave Bouckhuyt	Chautauqua, NY		1410	18300		Lake Merced, CA	ii	1361.1
8688	Al Birmingham	Bantam Lake, CT		1410	14144	Rex Ely	Bataváá, OH	7	1361 🧥
10182	Dick Towle	Winchester, MA		1409.9	18067		Indianapolis, IN	37	1360.27 🤍
13361	Delkin Jones	Atlanta, GA		1409.2	18333		Lotawana, MD	38	1360
	Robert Wheeler	Rochester, NY		1408.6	18661	Gordon Cook	Cleveland Hts., O		1360
19257	Sue Tabor	Winthrop, MA		1408.3	12223		Keuka, NY	6	1359.8
12021	Tom Sly, Sr. Herb West	Decatur, IL Atlanta, GA		1407.6 1407.5	14221		Crystal Lake, IL	16	1357.4
	Preston Brammer	Wichita, KS	5			George Schwenk	Middlebury, CT	17 18	1357.2 1357
	Fred Braht	Wichita, KS		1407	19064		Denver, CO		1355.8
	Steve Butler	Chicago, IL		1404.5	7192	•	Dayton, OH	15	
18668	Van Wesley	PYC, ŤN		1402	11559		Clearwater, FL	18	1355
19001	Del Girard	Decatur, IL		1402	12883		PYC, TN		1354
11774	Bud Lorch	Grand Rapids, MI	20		11294	Dick C. Bartlett	Annapolis, MD Sea Cliff, NY	13	1353.77 1352.8
	Dave Kendall	Dallas, TX	48	1401			Annapolis, MD		1352.76
11939 10740		Lincoln, NB Tulsa, OK	14			Ray Miller	Crystal Lake, IL	īέ	1352.5
18627	Ted Kersker	Portage Lakes, OH		1398.77		Theodore Horvath	Rochester, NY	17	
		Crystal Lake, IL		1395.9		Charles Nearing	Sacramento, CA	8	1349.88
16087	Tom Schaberg	Wall Lake, MI	19	1395		Fransis Keany	Dallas, TX	12	1349
13071	Curt Chastain	Muncie, IN		1394.75			Barberton, OH		1348.5
18638	Pennie Davis	Iowa, NB		1394		Al Quirk	Chicago, IL		1348.2
13180	Jim Goetz	Lotawana, MO	12	1392		Arthur Yost Oral Beber	Lincoln, NB Crystal Lake, IL		1348.1 1347.9
12752	Jack Botteron	Quivera, KS Indianapolis, IN	30	1391 1390.76			Indianapolis, IN		1346.9
17693 18629	Bill Collins Tom Dillingham	Portage Lakes, OH		1390.14			North Cove, NY		1346.8
18303	Ken Blenkarn	Tulsa, OK		1390	17336		Jackson, MS	10	
14201	Harold Brammer	Wichita, KS		1390	16159	Bob Gray	Houston TX		1346
17389	Larry Evans	Springfield, IL	5		18313		Denver, CO	10	
17620	John Hook	Portland, OB		1389.64			Onondaga, NY	.7	
16609	Jon Rigdon	Seattle, WA	7		16600		Diamond Lake, MI		1342.9 1342.4
7439	Dave Lawson	Sea Cliff, NY		1388.8 1387.1	13303 12721		Akron, OH Lotawana, MO	23	
4604 17691	Jeff Vetato Bill Laskey	Ponca City, OK Crystal Lake, IL		1385.8		George Nichols	Decatur, IL	11	1340.3
13201		Lake Merced, CA		1385.1	16809		Bow Mar, CO	14	1340
8459	Harold Lyness	Onondaga, NY		1485		Kay Christensen	Wheatridge, CO	12	1040
12222	Ben Ansley	Portage Lakes, OH	16	1383.94	13523	George Newman	Springfield, IL	7	
19366	Jim McDonald -	Indianapolis, IN	27	1383.85	13311	Carl Lauterbach	Rochester, NY	16	1338.9
17461	Dick Dimes	Winthrop, MA		1382.9		Victor Andersen	Portage Lakes, Of	1 23	1338.3
19263	Jack Clodfelter	Lakewood, CO		1382 1382	8598 17514		Clearwater, FL Annapolis, MD	21	1337.76
9541		Galesburg, IL Portage Lakes, OH	6 I 16				Woodstock, Canada	ı 12	1336.6
17169 18116	Dick Hand John Brannan	Indianapolis, IN	35	1381.2	17226		Jackson, MS	15	1336.53

	17231	Geoffrey Chatterton	La Crosse, WI	14	1335.71	12004	Bud Howe	• • •		
	14111	Ron Davis	Lotawana, MO		1335	18836		Peoria, IL	6	1275.6
	17422	John Eilers	Cincinnati, OH		1334.2	9161		Lakewood, CO	10	
	17518		Clearwater, FL		1334	15308		Cheshire, Eng	21	1274.43
	12771		Rochester, NY		1333.4	17766		Wall Lake, MI	20	
	18342	Wayne Doolittle	Muncie, IN		1332.8	16958		PYC, TN	26	1273
C C	11866	John Brinkerhoff	Wooster, OH			9285		Wall Lake, MI	20	1272.5
1	14397	George Howell	Crystal Lake, IL		1331.4	17469		Winchester, MA	9	1272.3
		Jim Flowers	Woodstock, Canada		1330.3	18020	Joe Horn Beton Farmall	Lake Merced, CA	6	
	16881	Tom Kennedy	Clinton, MS		1330.3	12086		Champaign, IL		1271.3
		Fred Hegel	Denver, CO		1329	13486		Cheshire, Eng.	25	1270.21
	17108	Ken Parke	Portage Lakes, OH		1328.68	14394		Englewood, CO	10	
	9331	Nat Swan	Clearwater, FL		1328	19433	Bob Allen	Dallas, TX	14	
	12759	Tom Jones	Grand Rapids, MI		1326.08	10899	Wally Gunkler	Indianapolis, IN		1268.75
	15348	George Siersma	Bow Mar, CO		1326	18653		Chautauqua, NY	10	
	19007	Bob Lane	Annapolis, MD		1325.6	14610	Barbara Reusch	PYC, TN Wichith KC		1268
	17227		Lotawana, MO		1325	17164	Richard Gewirtz	Wichita, KS		1268
	10155	Steve Taylor	Lotawana, MO		1324	16658	Dennis Robertson	La Crosse, WI	7	
	15160	Gene Goldman	Lotawana, MO		1324	16237	Ed Grier	Lincoln, NB		1265.4
		Bill Hartshorn	PYC, TN		1324	16415		Peoria, IL Cound Panida WI		1264
	16947	Dick Tumlinson	Wichita, KS		1324	11910	Carmen Pastore	Grand Rapids, MI		1263.76
	12575	John Cory	Portage Lakes, OH		1323.83	18110	Bob Spano	Winthrop, MA		1263.7
	13667	James Lawlor	Waterbury, CT		1322.4	13262	Mike Beebe	Peoria, IL Gull Lake, MI	6	1263.3
	17232	Dick Craig	PYC, TN	28	1321	18047		Green Lake, WI	-	1263.1
	15959	Charles Schrieber	Lake Mohawk, NY		1320	12921		Green Lake, WI		1263
	18245	Jim Hayden	Diamond Lake, MI	21	1319.9	16812	Lee Tautz	Bow Mar, CO	11	1261.91 1261
	16806	Carl Ludvigsen	Bow Mar, CO	16	1319	14293	Bill Mapel	Lakewood, CO	10	1260
	13005	Paul Fopiano	Winchester, MA		1318.5		C. R. Anderson	Acton Lake, OH	7	1257
	16808	Walt Lowrie	Bow Mar, CO	13	1318	14204	Harvey Gossell	Crystal Lake, IL	ú	1254.2
	19255	Bob Ely	Winchester, MA	28	1317.9	19358	Doug Hiner	Iowa-NB SA		1253
	15050	Harold Sienkiewicz	Rochester, NY	13	1317.3	12227	John Balsavage	Woodbury, CT	23	1252.3
	8151	James Lawlor,Jr.	Waterbury, CT	9	1317.1	19180	Jack Baldwin	Springfield, IL	10	1252.3
	14535	Gene Harwell	Dallas, TX	12	1316	15170	E. Richard	Cheshire, Eng.	16	1249.31
	19547	Walter Clark	Iowa-NB SA	34	1313	12221	Richard Todd	Bermuda		1249.2
	15511	S. Rember	Grosse Pte. MI		1311.3	12489	Julie Rife	Decatur, IL	8	1248.9
	10361	Seymour Label	Quassapaug, CT		1310.2	16071	John Heard	Dallas, TX	12	1248
	17137	Bob Donath	Springfield, IL		1308.4	16284	Walt Wittke	Portland, OR	13	1247.85
	16323	Ben Howe	Sea Cliff, NY		1308.1	13873	John Post	Naugatuck, CT	14	1247.3
	17936	Al Bockelmann	Iowa=NB_SA		1307	18837	Ken Greig	Onandaga, NY	7	1243
_	7797	John Day	Granville, OH		1306.5	14929	Bucky Walthour	Grand Rapids, MI	13	1239
	12208	Robert Campbell	Keuka, NY		1305.3	9909	LeRoy Hoffman	Portage Lakes, OH	9	1236.8
<u> </u>	14295	Paul Maier	Portland, OR		1305.1	18848	Donald C. Slocum	Lincoln, NB	25	1235.8
	14600	Jack Bakken	Castle Rock, CO		1305	16851	John Wilkins, Jr.	Iowa-NB SA	10	1234
	18100	Linda Stearns	Annapolis, MD		1304.9	7885	Philip Paul	Naugatuck,_CT	30	1232.3
	19090	John Cole	Winthrop, MA		1304.5	11509	A. Higgins	Cheshire, Eng.		1232.2
	17463	Alice Petrucci	Winthrop, MA		1303.9	17043	Jerry Lawson	Denver, CO		1231
	13037	Charles Parke	Portage Lakes, OH				Mike Bello	Cranston, RI		1230.6
	7370	Ken Simons	PYC, TN	26	1301	7588	Arthur Powell	Cheshire, CT		1230.2
		James Moroney	Galway Lake, NY	10	1299.3		James Nordine	Keuka, NY		1230.1
	15299	Pat Burgess	Dallas, TX		1299	15002	Warren Cox	Dallas, TX	34	1229
			St. Simons, GA		1299	6258		PYC, TN		1226
	16412	Brooks Martin	Bow Mar, CO	7	1299	9136		Bow Mar, CO	7	1226
	17224	Marge Smith	Richmond, IN		1297.8 1297	16327 17466	Bruce Hurst	Tulsa, OK Diamond Lake, MI	7	1225 1224.9
	17046	Dick Saunders William Wieland	Acton Lake, OH		1296.3		Herb Wurster H. Ruff			1224.9
			Lincoln, NB Indianapolis, IN		1296.15	19280	Harold Slutsky	Cheshire, Eng. Diamond Lake, MI		1221.8
	15322	Dick Chastain Warren Trenary	Cincinnati, OH		1295		G. C. Kreuter	Green Lake, WI		1221.66
	16561	Bill Vosburgh	Tulsa, OK		1295	8038	Philip Goldberg	Rochester, NY	31	1220.9
	19264	Bob Ruby	Dallas, TX		1292	18119		Indianapolis, IN		1220.31
	18629	Jeff Dillingham	Portage Lakes, OH		1291.38	16455	Arthur Mullin	Bermuda	18	1220
	9882	Raymond Pitman	Bermuda		1291.1	11530	Ed Kaiser	Lakewood, CO	10	1220
	13448	Lee Shapiro	Lotawana, MO		1291	13844	Dick Walker	Tulsa, OK	6	1219
		Art Lippit	Wichita, KS	7	1289	19363	Nancy Norton	Indianapolis, IN		1216.87
	18042	Herb Carpenter	Grand Rapids, MI		1288.92		Ginny Turner	Wintrhop, MA	21	1215.8
	16400	Jack Kirkbride	Dayton, OH		1288.3	7796	Roy Terwilliger	Annapolis, MD	21	1214.3
	19336	Bill Kreig	Indianapolis, IN		1287.76	13900	Edward Metzger	Akron, OH	9	1213.9
	13365	Bob Feldman	Chicago, IL		1286.6	18403		Iowa-NB SA	28	1209
	8643	Rodney Taylor	Rochester, NY		1286.2	11599	Doug Rendall	Chautauqua, NY	6	1208.8
	14384	Fritz Barnard	Wichita, KS		1286	13015	William Kennedy	Winchester, MA	15	1208.6
	18355		La Crosse, WI	10	1286	8383	Bill Durbin	Portage Lakes, OH	23	1208.35
		Bill Thurston	Sea Cliff, NY	16	1284.2	16288	Dick Grant	Graad Rapids, MI	7	1207.14
	16245	Martin Emerson	Colorado Springs,C	:010	1283	16879	John Brtel	Acton Lake, OH	10	1207
		Frank Barch	Keuka, NY	11	1282.5	15166	Craft Saunders	Tulsa, OK	5	1207
	18501	Paul Levinson	Indianapolis, IN		1281	16330	Tom West	Atlanta, GA	20	1206.3
	9100	John Elliot	Winchester, MA		1279.4	16733		Springfield, IL	6	1205.6
	16657	Charlie Kuder	Springfield, IL		1279.2	19337	Emmy Kohler	Atlanta, GA	24	1204.8
	16548	Collins Orton	Lake Merced, CA		1278.9	12028	Wade Redding	Chautauqua, NY	9	1204
	7371	Janika Vandervelde	Green Lake, WI		1277.25	17585	Reed Hampton	Cranston, RI	7	1200.14
	13058	Jerry Sams	Dallas, TX	6	1277	17734	Harold Tenney	Decatur, IL	5	1198.6
	13456	Arthur Kenat	Lakewood, OH	14	1276.4	17560	Ralph Townsend	Indianapolis, IN	30	1197.23
	16698	G.R. Caggiano	Winchester, MA	19	1275.6	16766	Bill French	Atlanta, GA	23	1197.1
	10070	<b>JJ</b> • •								

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	Stephen Benner	Cowan, OH	17	1197.1	19357	Al Hartman	Iowa-NB SA	34	1087
				1194	11900	Larry White	Annapolis, MD	12	1086.4
	Tom Cheek	Dallas, TX				Tom Jetton	Iowa-NB SA	28	1086
	Gene Rex	St. Simons, GA		1194			Springfield, IL	-5	1079.2
13207	John Hotch	St. Simons, GA		1194	18433				1070 75
14375	Thomas Athanas	Diamond Lake, MI	21	1193.7		Tom Robberson	Grand Rapids, MI		1078.75
	Gene Tragus	Dallas, TX	53	1192	15221	Scott Maddox	Diamond Lake, MI	20	1077.7 🧥
	Bo Cline	PYC, TN		1192	18312	Terry Loughlin	Green Lake, WI	7	1077.42
			6	1191.8	18939		Iowa-NB SA	17	1072
	Jim Robertson	Diamond Lake, MI					PYC, TN		1070
12567	H. Roskell	Cheshire, Eng.		1189.26		Dean Hearns			
19425	Tom O'Flaherty	Cowan, OH	6	1188.8	9869	Cam Blazer	Lotawana,MO	6	1070
	Bob Henry	Dallas, TX	12	1188	17550	Floyd Hughes	Iowa-NB SA	7	1069
				1186.6	8085	Linda Becker	Sea Cliff, NY	5	1063
	Jay Cahill	Atlanta, GA			9315		Lincoln, NB	8	1061
16409	John Keefe	Chicago, IL		1185.5					
17136	Walt Forsha	Denver, CO	- 5	1185	12712		Bow Mar, CO	7	1061
	Larry Fyffe	Fairview Park, OH	12	1184.3	14123	S. Grime	Cheshire, Eng.	12	1059.42
	Steve Donahue	Rochester, NY	-8	1183.9	17710	Lew Barker	Annapolisk MD	17	1058
					11468		PYC, TN	5	1058
	Geoffrey Wilson	Bermuda	-	1181.61					
14107	Nuel Holman	Tulsa, OK	5	1181	19399		Diamond Lake, MI		1056.4
16294	Dick Frost	Bow Mar, CO	11	1180	16929	Buzz Weirich	Chicago, IL	5	1051.2
	David Broske	Akron, OH	14	1179.6	11660	<b>David Cox</b>	PYC, TN	15	1051
				1177.5	13932	Hal Gifford	Iowa-NB SA	29	1049
	James O'Hara, Sr	Rochester, NY					1040-10 54		1042
	Tom Pfeiffer	Springfield, IL		1177.3	9600	Gary Lorch	Grand Rapids, MI	11	1043.55
18505	Ron Brockett	Atlanta, GA	19	1172.5	16820	Charles Bauer	Lotawana, MO	-9	1032
	Moran	Winthrop, MA	15	1171.7	10224				
				1170.8		Richard Leonard	Naugatuck, CT	5	1027.1
	Ralph Eldridge	Winchester, MA			11832	Bernard Chiama	Keuka, NY	6	1024
	Mac McLish	Bow Mar, CO	11	1169	18838	Kerr Stevens	Lincoln, NB	7	1022.4
9881 0	Charles DeSilva	Bermuda	10	1167.2	11450		Lotawana, MO		1018
	Richard Swanson	Winchester, MA	8	1166.1	10875		••• • • • • •		
	Martin Burnup	Atlanta, GA		1165.9			Cheshire, Eng.		1016.13
					14722	W. Warburton	Cheshire, Eng.	10	1016.1
	Cliff Lynch	Springfield, IL	7	1164.2	13887	Janet Nastess	Annapolis, MD	11	1013.6
11077	Ron Hontert	Portage Lakes, OH		1163.57	12503		Rochester, NY	5	1011.8
12636	Dave Rotz	Decatur, IL	5	1156.8	14982				
		Diamond Lake, MI		1156.5			Indianapolis, IN	17	1009.88
					14312	J. Clarkson	Cheshire, Eng.	26	1002.9
	Nelson Zackin	Middlebury, CT	15	1156.1	16729	Bill Stephenson	Indianapolis, IN	27	1001.96
14978	Donn Manly	Brighton, CO	- 5	1153	14608	Jay Wagener	Lincoln, NB	15	1001
13674	Dennis Craig	Lincoln, NB	13	1152.6	17555				
	George Boyd	Atlanta, GA	6	1151.2		Gerald Toohey	Iowa-NB SA	34	995
				1150	17214		Indianapolis, IN	31	988.96
	Dave Davis	Iowa-NB SA	21		10050	Stanley Levin	Waterbury, CT	7	979.3
8646	Norman Carlson	Naugutuck, CT		1149.4	18852	Don Holmquist	Indianapolis, IN	9	977.66
14288	Bob Martin	Dallas, TX	- 14	1149	13934			-	
15168	Edward Criddle	Cowan, OH	5	1148.6			Denver, CO	8	977
	Dave Dixon	Dallas, TX		1148	17098	James K <b>ł</b> ein	Akron, OH	6	973.8 🌅 🦄
					15109	John Gudas	Annapolis, MD	11	970.1
	Randy Moore	Bow Mar, CO		1146	15304	Charles Chambers	Indianapolis, IN	27	967.85
14307	George Rood	Iowa-NB SA	37	1145	17119	Wolf Goethert		28	967
13188	Donald Johnston III	Grand Rapids, MI	14	1143.14			Iowa-NB SA		
	Jim McMath	Winthrop, MA		1140.3	14690	Skip Armstrong	Diamond Lake, MI	17	961.9
					18114	George McCord	Indianapolis, IN	18	953.44
	H. Ashworth	Cheshire, Eng.		1140.25	17468	George Van Mater	Annapolis, MĎ	5	952.8
11700	Mary Jane Bumby	Green Lake, ŴI	6	1140.16	13208	Don Dolan		22	946
14589	Frank Heinisch	Iowa-NB SA	37	1140			PYC, TN		
	Brian Wasung		13	1140	16081	Kelton Slane	Portage Lakes, OH	5	939.4
							Cincinnati, OH	8	936.9
		Cowan, OH	22	1126 46	18391	Richard Richter			
	Marshal McCuen	Indianapolis, IN	22	1135.45					
			22 6	1133	8438	Joe Arrington	Lincoln, NB	8	933.1
16413	Marshal McCuen Paul Tuerk	Indianapolis, IN Indianapolis, IN		1133	8438 18395	Joe Arrington Perry Williams	Lincoln, NB Iowa-NB SA	8 21	933.1 927
16413 18330	Marshal McCuen Paul Tuerk Bob Christensen	Indianapolis, IN Indianapolis, IN Crystal Lake, IL	6 9	1133 1132.3	8438 18395 17178	Joe Arrington Perry Williams R. Bootherton	Lincoln, NB Iowa-NB SA Cheshire, Eng.	8 21 6	933.1 927 918.83
16413 18330 18248	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Daamond Lake, MI	6 9 11	1133 1132.3 1128.3	8438 18395 17178 11634	Joe Arrington Perry Williams R. Bootherton Chris Kibler	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN	8 21 6 12	933.1 927 918.83 916
16413 18330 18248 17465	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Daamond Lake, MI Diamond Lake, MI	6 9 11 17	1133 1132.3 1128.3 1127.9	8438 18395 17178	Joe Arrington Perry Williams R. Bootherton Chris Kibler	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN	8 21 6 12	933.1 927 918.83 916
16413 18330 18248 17465 17681	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Diamond Lake, MI Diamond Lake, MI Dallas, TX	6 9 11 17 11	1133 1132.3 1128.3 1127.9 1124	8438 18395 17178 11634 18833	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI	8 21 6 12 11	933.1 927 918.83 916 905.5
16413 18330 18248 17465 17681 16111	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Daamond Lake, MI Diamond,Lake, MI Dallas, TX Lincoln, NB	6 9 11 17	1133 1132.3 1128.3 1127.9 1124 1122.3	8438 18395 17178 11634 18833 11815	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr.	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA	8 21 6 12 11 9	933.1 927 918.83 916 905.5 903
16413 18330 18248 17465 17681 16111	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Daamond Lake, MI Diamond,Lake, MI Dallas, TX Lincoln, NB	6 9 11 17 11	1133 1132.3 1128.3 1127.9 1124	8438 18395 17178 11634 18833 11815 18636	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr. Ed Connors	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA Iowa-NB SA	8 21 6 12 11 9 12	933.1 927 918.83 916 905.5 903 898
16413 18330 18248 17465 17681 16111 9007	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston Kathy Bronaugh	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Diamond Lake, MI Diamond Lake, MI Dallas, TX Lincoln, NB PYC, TN	6 9 11 17 11 13 24	1133 1132.3 1128.3 1127.9 1124 1122.3 1122	8438 18395 17178 11634 18833 11815 18636 7881	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr. Ed Connors Bob Harris	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA Iowa-NB SA Annapolis, MD	8 21 6 12 11 9 12 7	933.1 927 918.83 916 905.5 903 898 887.7
16413 18330 18248 17465 17681 16111 9007 16345	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston Kathy Bronaugh John Bollinger	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Diamond Lake, MI Diamond Lake, MI Dallas, TX Lincoln, NB PYC, TN Portage Lakes, OH	6 9 11 17 11 13 24 9	1133 1132.3 1128.3 1127.9 1124 1122.3 1122 1120.44	8438 18395 17178 11634 18833 11815 18636 7881 10663	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr. Ed Connors Bob Harris Bob Boxley	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA Iowa-NB SA Annapolis, MD Indianapolis, IN	8 21 6 12 11 9 12 7 11	933.1 927 918.83 916 905.5 903 898 887.7 887.18
16413 18330 18248 17465 17681 16111 9007 16345 17459	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston Kathy Bronaugh John Bollinger Bill Clayton	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Diamond Lake, MI Dallas, TX Lincoln, NB PYC, TN Portage Lakes, OH Indianapolis, IN	6 9 11 17 11 13 24 9 13	1133 1132.3 1128.3 1127.9 1124 1122.3 1122 1120.44 1118.84	8438 18395 17178 11634 18833 11815 18636 7881	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr. Ed Connors Bob Harris Bob Boxley	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA Iowa-NB SA Annapolis, MD	8 21 6 12 11 9 12 7	933.1 927 918.83 916 905.5 903 898 887.7 887.18
16413 18330 18248 17465 17681 16111 9007 16345 17459 16482	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston Kathy Bronaugh John Bollinger Bill Clayton Jack Randall	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Daamond Lake, MI Dallas, TX Lincoln, NB PYC, TN Portage Lakes, OH Indianapolis, IN Springfield, IL	6 9 11 17 11 13 24 9 13 14	1133 1132.3 1128.3 1127.9 1124 1122.3 1122 1120.44 1118.84 1117.7	8438 18395 17178 11634 18833 11815 18636 7881 10663 12959	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr. Ed Connors Bob Harris Bob Boxley Bob Hallisey	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA Iowa-NB SA Annapolis, MD Indianapolis, IN Winchester, MA	8 21 6 12 11 9 12 7 11 5	933.1 927 918.83 916 905.5 903 898 887.7 887.18 885.2
16413 18330 18248 17465 17681 16111 9007 16345 17459 16482	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston Kathy Bronaugh John Bollinger Bill Clayton	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Diamond Lake, MI Dallas, TX Lincoln, NB PYC, TN Portage Lakes, OH Indianapolis, IN	6 9 11 17 11 13 24 9 13	1133 1132.3 1128.3 1127.9 1124 1122.3 1122 1120.44 1118.84 1117.7 1117	8438 18395 17178 11634 18833 11815 18636 7881 10663 12959 15946	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr. Ed Connors Bob Harris Bob Boxley Bob Hallisey Pat Toohey	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA Iowa-NB SA Annapolis, MD Indianapolis, IN Winchester, MA Iowa-NB SA	8 21 6 12 11 9 12 7 11 5 11	933.1 927 918.83 916 905.5 903 898 887.7 887.18 885.2 880
16413 18330 18248 17465 17681 16111 9007 16345 17459 16482 16308	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston Kathy Bronaugh John Bollinger Bill Clayton Jack Randall Michael Craig	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Daamond Lake, MI Diamond Lake, MI Dallas, TX Lincoln, NB PYC, TN Portage Lakes, OH Indianapolis, IN Springfield, IL PYC, TN	6 9 11 17 11 13 24 9 13 14	1133 1132.3 1128.3 1127.9 1124 1122.3 1122 1120.44 1118.84 1117.7 1117	8438 18395 17178 11634 18833 11815 18636 7881 10663 12959 15946 18347	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr. Ed Connors Bob Harris Bob Boxley Bob Hallisey Pat Toohey Gene Hains	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA Iowa-NB SA Annapolis, MD Indianapolis, IN Winchester, MA Iowa-NB SA Diamond Lake, MI	8 21 6 12 11 9 12 7 11 5 11 20	933.1 927 918.83 916 905.5 903 898 887.7 887.18 885.2 880 878.4
16413 18330 18248 17465 17681 16111 9007 16345 17459 16482 16308 18912	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston Kathy Bronaugh John Bollinger Bill Clayton Jack Randall Michael Craig Mike Glauberman	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Daamond Lake, MI Diamond Lake, MI Dallas, TX Lincoln, NB PYC, TN Portage Lakes, OH Indianapolis, IN Springfield, IL PYC, TN Indianapolis, IN	6 9 11 17 11 13 24 9 13 14 23 21	1133 1132.3 1128.3 1127.9 1124 1122.3 1122 1120.44 1118.84 1117.7 1117 1116.47	8438 18395 17178 11634 18833 11815 18636 7881 10663 12959 15946 18347 11174	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr. Ed Connors Bob Harris Bob Boxley Bob Hallisey Pat Toohey Gene Hains Robert Dobson	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA Iowa-NB SA Annapolis, MD Indianapolis, IN Winchester, MA Iowa-NB SA Diamond Lake, MI Cincinnati, OH	8 21 6 12 11 9 12 7 11 5 11 20 6	933.1 927 918.83 916 905.5 903 898 887.7 887.18 885.2 880 878.4 840.7
16413 18330 18248 17465 17681 16111 9007 16345 17459 16482 16308 18912 16804	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston Kathy Bronaugh John Bollinger Bill Clayton Jack Randall Michael Craig Mike Glauberman Jim Emrick	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Daamond Lake, MI Diamond Lake, MI Dallas, TX Lincoln, NB PYC, TN Portage Lakes, OH Indianapolis, IN Springfield, IL PYC, TN Indianapolis, IN Bow Mar, Co	6 9 11 17 13 24 9 13 14 23 21 12	1133 1132.3 1128.3 1127.9 1124 1122.3 1122 1120.44 1118.84 1117.7 1117 1116.47 1112	8438 18395 17178 11634 18833 11815 18636 7881 10663 12959 15946 18347 11174 15761	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr. Ed Connors Bob Harris Bob Boxley Bob Hallisey Pat Toohey Gene Hains	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA Iowa-NB SA Annapolis, MD Indianapolis, IN Winchester, MA Iowa-NB SA Diamond Lake, MI	8 21 6 12 11 9 12 7 11 5 11 20	933.1 927 918.83 916 905.5 903 898 887.7 887.18 885.2 880 878.4 840.7 831
16413 18330 18248 17465 17681 16111 9007 16345 17459 16482 16308 18912 16804 7617	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston Kathy Bronaugh John Bollinger Bill Clayton Jack Randall Michael Craig Mike Glauberman Jim Emrick Robert Eddy	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Diamond Lake, MI Diamond Lake, MI Dallas, TX Lincoln, NB PYC, TN Portage Lakes, OH Indianapolis, IN Springfield, IL PYC, TN Indianapolis, IN Bow Mar, Co Winchester, MA	6 9 11 17 13 24 9 13 14 23 21 12 6	1133 1132.3 1128.3 1127.9 1124 1122.3 1122 1120.44 1118.84 1117.7 1116.47 1112 1111.5	8438 18395 17178 11634 18833 11815 18636 7881 10663 12959 15946 18347 11174	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr. Ed Connors Bob Harris Bob Boxley Bob Hallisey Pat Toohey Gene Hains Robert Dobson	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA Iowa-NB SA Annapolis, MD Indianapolis, IN Winchester, MA Iowa-NB SA Diamond Lake, MI Cincinnati, OH	8 21 6 12 11 9 12 7 11 5 11 20 6 26	933.1 927 918.83 916 905.5 903 898 887.7 887.18 885.2 880 878.4 840.7 831
16413 18330 18248 17465 17681 16111 9007 16345 17459 16482 16308 18912 16804 7617 16684	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston Kathy Bronaugh John Bollinger Bill Clayton Jack Randall Michael Craig Mike Glauberman Jim Emrick Robert Eddy J.C. O'Donnell	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Diamond Lake, MI Dallas, TX Lincoln, NB PYC, TN Portage Lakes, OH Indianapolis, IN Springfield, IL PYC, TN Indianapolis, IN Bow Mar, Co Winchester, MA Atlanta, GA	6 9 11 17 11 13 24 9 13 14 23 21 22 6 13	1133 1132.3 1128.3 1127.9 1124 1122.3 1122 1120.44 1118.84 1117.7 1116.47 1111.5 11109.8	8438 18395 17178 11634 18833 11815 18636 7881 10663 12959 15946 18347 11174 15761 14689	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr. Ed Connors Bob Harris Bob Harris Bob Boxley Bob Hallisey Pat Toohey Gene Hains Robert Dobson Tom Fortune Bob Jones	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA Iowa-NB SA Annapolis, MD Indianapolis, IN Winchester, MA Iowa-NB SA Diamond Lake, MI Cincinnati, OH Iowa-NB SA Iowa-NB SA	8 21 6 12 11 9 12 7 11 5 11 20 6	933.1 927 918.83 916 905.5 903 898 887.7 887.18 885.2 880 878.4 840.7 831 829
16413 18330 18248 17465 17681 16111 9007 16345 17459 16482 16308 18912 16804 7617 16684	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston Kathy Bronaugh John Bollinger Bill Clayton Jack Randall Michael Craig Mike Glauberman Jim Emrick Robert Eddy J.C. O'Donnell	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Diamond Lake, MI Diamond Lake, MI Dallas, TX Lincoln, NB PYC, TN Portage Lakes, OH Indianapolis, IN Springfield, IL PYC, TN Indianapolis, IN Bow Mar, Co Winchester, MA	6 9 11 17 13 24 9 13 24 23 14 23 21 12 6 13 8	1133 1132.3 1128.3 1127.9 1124 1122.3 1122 1120.44 1118.84 1117.7 1116.47 1116.47 1111.5 1109.8 1109	8438 18395 17178 11634 18833 11815 18636 7881 10663 12959 15946 18347 11174 15761 14689 17930	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr. Ed Connors Bob Harris Bob Boxley Bob Hallisey Pat Toohey Gene Hains Robert Dobson Tom Fortune Bob Jones Jeff Coppes	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA Iowa-NB SA Annapolis, MD Indianapolis, IN Winchester, MA Iowa-NB SA Diamond Lake, MI Cincinnati, OH Iowa-NB SA Diamond Lake, MI	8 21 6 12 11 9 12 7 11 5 11 20 6 25 9	933.1 927 918.83 916 905.5 903 898 887.7 887.18 885.2 880 878.4 840.7 831 829 822.6
16413 18330 18248 17465 17681 16111 9007 16345 17459 16482 16308 18912 16804 7617 16684 18644	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston Kathy Bronaugh John Bollinger Bill Clayton Jack Randall Michael Craig Mike Glauberman Jim Emrick Robert Eddy J.C. O'Donnell Charles Kenney	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Diamond Lake, MI Dallas, TX Lincoln, NB PYC, TN Portage Lakes, OH Indianapolis, IN Springfield, IL PYC, TN Indianapolis, IN Bow Mar, Co Winchester, MA Atlanta, GA Springfield, IL	6 9 11 17 11 13 24 9 13 14 23 21 22 6 13	1133 1132.3 1128.3 1127.9 1124 1122.3 1122 1120.44 1118.84 1117.7 1116.47 1111.5 11109.8	8438 18395 17178 11634 18833 11815 18636 7881 10663 12959 15946 18347 11174 15761 14689 17930 16490	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr. Ed Connors Bob Harris Bob Boxley Bob Harris Bob Boxley Bob Hallisey Pat Toohey Gene Hains Robert Dobson Tom Fortune Bob Jones Jeff Coppes Jim Fisher	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA Iowa-NB SA Annapolis, MD Indianapolis, IN Winchester, MA Iowa-NB SA Diamond Lake, MI Cincinnati, OH Iowa-NB SA Diamond Lake, MI Annapolis, MD	8 12 11 9 12 7 11 5 11 20 6 25 9 9	933.1 927 918.83 916 905.5 903 898 887.7 887.18 885.2 880 878.4 840.7 831 829 822.6 816
16413 18330 18248 17465 17681 16111 9007 16345 17459 16482 16308 18912 16804 7617 16684 18644 18644	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston Kathy Bronaugh John Bollinger Bill Clayton Jack Randall Michael Craig Mike Glauberman Jim Emrick Robert Eddy J.C. O'Donnell Charles Kenney Carl Levinson	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Diamond Lake, MI Dallas, TX Lincoln, NB PYC, TN Portage Lakes, OH Indianapolis, IN Springfield, IL PYC, TN Indianapolis, IN Bow Mar, Co Winchester, MA Atlanta, GA Springfield, IL Indianapolis, IN	6 9 11 13 24 9 13 14 23 21 12 6 13 8 7	1133 1132.3 1128.3 1127.9 1124 1122.3 1122 1120.44 1118.84 1117.7 1116.47 1112 1111.5 1109.8 1109 1108.71	8438 18395 17178 11634 18833 11815 18636 7881 10663 12959 15946 18347 11174 15761 14689 17930 16490 15510	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr. Ed Connors Bob Harris Bob Boxley Bob Harris Bob Boxley Bob Hallisey Pat Toohey Gene Hains Robert Dobson Tom Fortune Bob Jones Jeff Coppes Jim Fisher Geoff Hogan1	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA Iowa-NB SA Annapolis, MD Indianapolis, IN Winchester, MA Iowa-NB SA Diamond Lake, MI Cincinnati, OH Iowa-NB SA Iowa-NB SA Diamond Lake, MI Annapolis, MD	8 12 11 9 12 7 11 5 11 20 6 25 9 9 5	933.1 927 918.83 916 905.5 903 898 887.7 887.18 885.2 880 878.4 840.7 831 829 822.6 816 790.8
16413 18330 18248 17465 17681 16111 9007 16345 17459 16482 16308 18912 16804 7617 16684 18501 15208	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston Kathy Bronaugh John Bollinger Bill Clayton Jack Randall Michael Craig Mike Glauberman Jim Emrick Robert Eddy J.C. O'Donnell Charles Kenney Carl Levinson Berg Keshian	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Diamond Lake, MI Dallas, TX Lincoln, NB PYC, TN Portage Lakes, OH Indianapolis, IN Springfield, IL PYC, TN Indianapolis, IN Bow Mar, Co Winchester, MA Atlanta, GA Springfield, IL Indianapolis, IN Winchester, MA	6 9 9 11 17 11 13 24 9 13 14 23 21 12 6 13 8 7 5	1133 1132.3 1128.3 1127.9 1124 1122.3 1122 1120.44 1118.84 1117.7 1116.47 1112 1111.5 1109.8 1109 1108.71 1108	8438 18395 17178 11634 18833 11815 18636 7881 10663 12959 15946 18347 11174 15761 14689 17930 16490 15510 17509	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr. Ed Connors Bob Harris Bob Boxley Bob Hallisey Pat Toohey Gene Hains Robert Dobson Tom Fortune Bob Jones Jeff Coppes Jim Fisher Geoff Hogani Dave Pitchenik	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA Iowa-NB SA Annapolis, MD Indianapolis, IN Winchester, MA Iowa-NB SA Diamond Lake, MI Cincinnati, OH Iowa-NB SA Diamond Lake, MI Annapolis, MD	8 12 11 9 12 7 11 5 11 20 6 25 9 9 5 6	933.1 927 918.83 916 905.5 903 898 887.7 887.18 885.2 880 878.4 840.7 831 829 822.6 816 790.8 786
16413 18330 18248 17465 17681 16111 9007 16345 17459 16482 16308 18912 16804 7617 16684 18644 18501 15208 19006	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston Kathy Bronaugh John Bollinger Bill Clayton Jack Randall Michael Craig Mike Glauberman Jim Emrick Robert Eddy J.C. O'Donnell Charles Kenney Carl Levinson Berg Keshian Bud Sipe	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Diamond Lake, MI Dallas, TX Lincoln, NB PYC, TN Portage Lakes, OH Indianapolis, IN Springfield, IL PYC, TN Indianapolis, IN Bow Mar, Co Winchester, MA Atlanta, GA Springfield, IL Indianapolis, IN Winchester, MA PYC, TN	6 9 9 11 17 11 13 24 9 13 14 23 21 12 6 13 8 7 5 23	1133 1132.3 1128.3 1127.9 1124 1122.3 1122 1120.44 1118.84 1117.7 1116.47 1112 1111.5 1109.8 1109 1108.71 1108 1107	8438 18395 17178 11634 18833 11815 18636 7881 10663 12959 15946 18347 11174 15761 14689 17930 16490 15510 17509	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr. Ed Connors Bob Harris Bob Boxley Bob Hallisey Pat Toohey Gene Hains Robert Dobson Tom Fortune Bob Jones Jeff Coppes Jim Fisher Geoff Hogani Dave Pitchenik	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA Iowa-NB SA Iowa-NB SA Diamond Lake, MI Cincinnati, OH Iowa-NB SA Iowa-NB SA Diamond Lake, MI Annapolis, MD Annapolis, MD Indianapolis, IN	8 12 11 9 12 7 11 5 11 20 6 25 9 9 5 6	933.1 927 918.83 916 905.5 903 898 887.7 887.18 885.2 880 878.4 840.7 831 829 822.6 816 790.8
16413 18330 18248 17465 17681 16111 9007 16345 17459 16482 16308 18912 16804 7617 16684 18644 18501 15208 19006 17166	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston Kathy Bronaugh John Bollinger Bill Clayton Jack Randall Michael Craig Mike Glauberman Jim Emrick Robert Eddy J.C. O'Donnell Charles Kenney Carl Levinson Berg Keshian	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Diamond Lake, MI Diamond Lake, MI Dallas, TX Lincoln, NB PYC, TN Portage Lakes, OH Indianapolis, IN Springfield, IL PYC, TN Indianapolis, IN Bow Mar, Co Winchester, MA Atlanta, GA Springfield, IL Indianapolis, IN Winchester, MA PYC, TN Lincoln, NB	6 9 9 11 17 11 13 24 9 13 24 9 13 21 12 6 13 8 7 5 23 14	1133 1132.3 1128.3 1127.9 1124 1122.3 1122 1120.44 1118.84 1117.7 1116.47 1112 1111.5 1109.8 1109 1108.71 1108 1107 1106	8438 18395 17178 11634 18833 11815 18636 7881 10663 12959 15946 18347 11174 15761 14689 17930 16510 15510 17509 18637	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr. Ed Connors Bob Harris Bob Boxley Bob Hallisey Pat Toohey Gene Hains Robert Dobson Tom Fortune Bob Jones Jeff Coppes Jim Fisher Geoff Hogan Dave Pitchenik Br Miller	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA Iowa-NB SA Iowa-NB SA Diamond Lake, MI Cincinnati, OH Iowa-NB SA Diamond Lake, MI Annapolis, MD Indianapolis, IN Iowa-NB SA	8 21 6 12 11 9 12 7 11 5 11 20 6 25 9 9 5 6 15	933.1 927 918.83 916 905.5 903 898 887.7 887.18 885.2 880 878.4 840.7 831 829 822.6 816 790.8 786 767
16413 18330 18248 17465 17681 16111 9007 16345 17459 16482 16308 18912 16804 7617 16684 18644 18501 15208 19006 17166	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston Kathy Bronaugh John Bollinger Bill Clayton Jack Randall Michael Craig Mike Glauberman Jim Emrick Robert Eddy J.C. O'Donnell Charles Kenney Carl Levinson Berg Keshian Bud Sipe George David	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Diamond Lake, MI Diamond Lake, MI Dallas, TX Lincoln, NB PYC, TN Portage Lakes, OH Indianapolis, IN Springfield, IL PYC, TN Indianapolis, IN Bow Mar, Co Winchester, MA Atlanta, GA Springfield, IL Indianapolis, IN Winchester, MA PYC, TN Lincoln, NB	6 9 9 11 17 11 13 24 9 13 14 23 21 12 6 13 8 7 5 23	1133 1132.3 1128.3 1127.9 1124 1122.3 1122 1120.44 1118.84 1117.7 1116.47 1112 1111.5 1109.8 1109 1108.71 1108 1107	8438 18395 17178 11634 18833 11815 18636 7881 10663 12959 15946 18347 11174 15761 14689 17930 16490 15510 17509 18637 15704	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr. Ed Connors Bob Harris Bob Boxley Bob Hallisey Pat Toohey Gene Hains Robert Dobson Tom Fortune Bob Jones Jeff Coppes Jim Fisher Geoff Hogan1 Dave Pitchenik Br Miller Mark Reitz	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA Iowa-NB SA Annapolis, MD Indianapolis, IN Winchester, MA Iowa-NB SA Diamond Lake, MI Cincinnati, OH Iowa-NB SA Diamond Lake, MI Annapolis, MD Indianapolis, IN Iowa-NB SA Annapolis, MD	8 21 6 12 11 9 27 7 11 5 11 20 6 25 9 9 5 6 15 6	933.1 927 918.83 916 905.5 903 898 887.7 887.18 885.2 880 878.4 840.7 831 829 822.6 816 790.8 786 767 713.3
16413 18330 18248 17465 17681 16111 9007 16345 17459 16482 16308 18912 16804 7617 16684 18644 18501 15208 19006 17166 18397	Marshal McCuen Paul Tuerk Bob Christensen Bert Perry Jill Gore Don Frank John W. Bengston Kathy Bronaugh John Bollinger Bill Clayton Jack Randall Michael Craig Mike Glauberman Jim Emrick Robert Eddy J.C. O'Donnell Charles Kenney Carl Levinson Berg Keshian Bud Sipe George David Dick Nerad	Indianapolis, IN Indianapolis, IN Crystal Lake, IL Diamond Lake, MI Diamond Lake, MI Dallas, TX Lincoln, NB PYC, TN Portage Lakes, OH Indianapolis, IN Springfield, IL PYC, TN Indianapolis, IN Bow Mar, Co Winchester, MA Atlanta, GA Springfield, IL Indianapolis, IN Winchester, MA PYC, TN Lincoln, NB Diamond Lake, MI	6 9 9 11 17 11 13 24 9 13 14 23 21 12 6 13 8 7 5 23 14 8	1133 1132.3 1128.3 1127.9 1124 1122.3 1122 1120.44 1118.84 1117.7 1116.47 1112 1111.5 1109.8 1109 1108.71 1108 1107 1106 1104.1	8438 18395 17178 11634 18833 11815 18636 7881 10663 12959 15946 18347 11174 15761 14689 17930 16490 15510 15510 15510 15510 15509 18637 15704 18444	Joe Arrington Perry Williams R. Bootherton Chris Kibler Dave Miller Byron Oberst, Jr. Ed Connors Bob Harris Bob Boxley Bob Hallisey Pat Toohey Gene Hains Robert Dobson Tom Fortune Bob Jones Jeff Coppes Jim Fisher Geoff Hogan Dave Pitchenik Br Miller Mark Reitz Mike Ciegelski	Lincoln, NB Iowa-NB SA Cheshire, Eng. PYC, TN Diamond Lake, MI Iowa-NB SA Iowa-NB SA Annapolis, MD Indianapolis, IN Winchester, MA Iowa-NB SA Diamond Lake, MI Cincinnati, OH Iowa-NB SA Diamond Lake, MI Annapolis, MD Indianapolis, IN Iowa-NB SA Annapolis, MD Iowa-NB SA	8 21 6 12 11 9 27 11 5 11 20 6 26 25 9 9 5 6 15 6 22	933.1 927 918.83 916 905.5 903 898 887.7 887.18 885.2 880 878.4 840.7 831 829 822.6 816 790.8 767 713.3 713
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AUGUST 1972

#### GADGETS

Buzz Lamb remarked a while back that he could remember when the boom vang was the ultimate in go-fastsand wondered if the 747 type control consoles we now have are really all that good. I think they are. At least, they give you plenty of opportunity to relieve nervous tension while racing by fiddling with things - and they really do add interest to racing and allow skilful use to contribute to unproved racing performance.

The boom vang has progressed from just a piece of line subjecting the boom to slight restraint to the present where at least a three part system in considered necessary, and a four part system is highly desirable. My latest mod program has a two part dacron line system on the end of a four part steel system. It really holds the boom down without much effort on the part of skipper or crew.

The jib halyard is an adjustable go-fast to a degreesome people go so far as to adjust the mast rake this way. I leave the mast rake constant, but have a four part system hooked to the end of the halyard. A crank and screw system or a winch can be used tightening enough to keep the luff wire straight. A winch will also work, of course.

The reacher was chronologically probably the next gofast, the original reacher being only a hook at the sheer. The only problems with these simple systems are that the crew can get pants hung up (unless the hooks are retractable) and it is difficult to get the sheet on or off of the hook in high winds when needed most. I solved this problem long ago by running the sheet through a glass awning ring just before it goes through the fairlead. The awning ring was attached to a line through the deck to a convenient cleat. A better system is a nylon thimble spliced into  $\frac{1}{4}$ " line, which attaches to 1/16" cable after going through the deck. The cables lead to the bottom of the centerboard trunk, where they are spliced to a small block. A piece of  $\frac{1}{4}$ " line runs from the top of the trunk or main sheet cleating post down through this block and back up to a cleat. This gives a two to one advantage and pulls both sides on at once. Leaving the reacher on results in very poor pointing ability when you forget it before the beat.

The next gadgets added were, I think, cloth downhauls to result in adjustable luff jibs and mains - the socalled "Cunningham hole" rig providing the latter, while the tack of the jib just slides up the luff wire or is pulled down against a stop to provide the latter. Don't try a Cunningham type rig on the jib it isn't legal and doesn't work very well either. These rigs do not require too much mechanical advantage - depending on the individual sail, a two to one advantage will be adequate generally - certainly no more than four to one.

Some time ago, people got very excited about pulling the mast forward, necessitating setting a limiting height at which the forward puller could be attached (Option #12 under paragraph 8). After a while, it dawned on everybody that in a high wind the mast went forward by itself when running before the wind with the pole out, and in light winds the main function was as an anti-rattler which could be accomplished either by the crew sitting against the mast, or with no more than a two-part system attaching not far above the deck. Simultaneously with this realization came the idea of pulling the mast aft on a reach. This is sort of a double go-fast - the luff of the jib is kept from saggin off to leeward, and the leeward stay does not cut into the main. The mast aft puller can be left on when going to windward, serving as an anti-rattler in light winds while it also keeps the jib luff straight, and it will re-duce mast bending somewhat in high winds. Present mast aft pullers generally have eight to one mechani-cal advantage or greater. This apparatus is subject to great stress if left on when going dead before the wind. Fortunately, the line generally pops out of the cleat before any damage can be done.

Quite a while ago, it was considered essential to let the tack of the jib go flying up a couple of feet in the air when running before the wind. I haven't seen this done for a long time.

None of these go-fasts are very complex or expensive and I believe they are worth the effort. It just occurred to me - the adjustable mainsheet bridle is another simple go-fast. Perhaps the Editor can remember when Dick Tillman (right?) wrote an article on it and tell where to find it.

Editor's note: I should have known better than to ask an engineer a question like that. Equal time will be given to any cost accountant. See November 1971 BULLETIN for Tillman's article on travelers.

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## PROPOSED AMENDMENTS TO CONSTITUTION com

In accordance with section 23 of the Constitution, the following amendments have been received:

AMENDMENT TO SECTION 29. RULES AND INTERNATIONAL RULES COMMITTEE

Wording: Add as a second sentence under Section 29 of the Constitution:

"One of the members of said committee shall be a professional boat builder."

AMENDMENT TO SECTION 23. BOARD OF GOVERNORS

Wording: Add as the second paragraph of Section 23 of the Constitution:

"The six members-at-large of the Board of Governors shall be from the USA and shall be elected by the districts containing the fleet of which they are members. They shall be elected for three-year terms, on the following schedule: To be elected in 1972 to serve from January 1. 1973 to December 31, 1975 by Districts 1 & 2. To be elected in 1973, to serve from January 1, 1974 to December 31, 1976 by Districts 3 & 4. To be elected in 1974, to serve from January 1975 to December 31, 1977 by Districts 5 and Districts 6 & 7 combined."

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### SEPT. 9-10 N LILLY OR CALL - SERIES -D INDIANAPOLIS 0 FLEET Write : Jerry Peterson A 5844 Eastview Ct. N Indpls. 46250 A PEN

### Cont. from Page 4

A secondary reason for the close competition enjoyed by those who race Snipes, is the amount of sail area. It is neither too much nor too little. The Snipe can be sailed by two average size people and not be overpowered in a blow. Conversely, the boat performs equally as well in light air more or less regardless of crew weight. Examples of other boat performances are:

Soling - requires two gorillas.

Tempest - requires one gorilla. 470 - needs skipper and crew at 150 pounds.

Lido 14 - limited to 300 pounds (heavy man should be forward.)

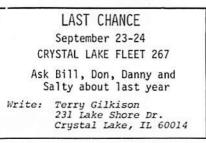
Finn - needs skipper of at least 170 pounds.

Some Snipe sailors would like to see an increase in sail area and a spinnaker. This would require larger crews much the same as the boats mentioned above, which could be a detriment to the class in so far as popularity is concerned. As far as the spinnaker is concerned, this has been tried years ago with little popular support.

The IYRU is currently considering, as an Olympic class, a tactical 2 man centerboarder such as the Snipe. The reason the Snipe is a great boat from the tactical standpoint is because it is not over canvassed or underweight. Shouldn't it be kept that way?

The IYRU Class Policy and Organization Committee who met in May in Denmark, made no recommendation to the IYRU Permanent Committee on what 2 man centerboarder should be added to the 1976 Olympics. It appears that the Snipe is being seriously considered, but the International 470 is perhaps the favored choice. Other classes recommended were Soling, Tempest, Flying Dutchman, Finn, and perhaps the Laser. It is up to the Permanent Committee, meeting in November following the 1972 Olympics at Kiel, to make the final selection. Regardless of whether Snipe is selected, let's keep our boat as a tactical one and a simple and fun boat to race.

> Dick Tillman Commodore



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NOTICE, DAYSAILORS: We are closing out our fiberglass covered, plywood center keel stepped spruce masts – \$77. Prepaid. Varnished, laminated Vee shaped spruce booms \$22.50 packed F.O.B. Pre paid with order for \$65. or more. Post Woodworking Shop, 2020 E 1st St., Tempe, AR 85281.

FOR SALE – SNIPE 9999 Varalyay glass covered red cedar hull, stainless board and bilge pump, compass, laminated spruce spars, wire halyards, top and bottom covers, steel trailer \$700. Tom Frost, Box 150, Ventura, CA 93001

FOR SALE – New Custom Built Snipe 18396. 1½ years in building, raced only 12 times, minimum weight, Lofland fiberglass, Bahama Blue hull, Custom built African mahogany deck and floor, Flush mounted compass, all Harken ballbearing blocks, Proctor EX, Levinson inland lake sails, mast raker and puller, jib downhaul, special traveler, aluminum daggerboard, custom full cover. This boat has everything. \$1600. Bob Kagel, 15 Balsam Parkway, Sparta, NJ 07871. (201) 729-5036

SNIPE 10073, MILLS hull. White hull with varnished mahogany deck. New Proctor EX keel stepped mast and cut down aluminum board. Also a fantastic big wheel trailer. John Herlihy, 5810 Beechcrest Court, Jackson, MS 39211 (601) 956-2290.

CLOSE OUT PRICES on Snipe fittings; halyards S.S. slings, winches, hiking sticks, misc fittings, Tillman Teller like new. W. G. Chase, Olean, NY (716) 372-0328.

SNIPE 16220. North sails, full cover, all mahogany finish. Used two years. W. F. Stackhouse, Ashville, NY. (716) 763-9714.

FOR SALE – CHUBASCO SNIPE 18009. Self rescuing. Compass. Trailer. Two Covers. Two suits Levinson sails, one medium, one full. Excellent condition. \$1800. Robert Jarasek. 1909 Hines Hill Rd., Hudson, OH 44236. (216) 653-9527.

FOR SALE – SNIPE 8053. Good condition, ready to sail. Dacron sails. \$400. John Bowen, 723 Woodside, Ripon, WI. (414) 748-6745.

FOR SALE – Grampian Fiberglass Snipe 13078. Red deck, white hull. Deck-stepped wood mast, foam flotation compartments. Always dry sailed, Boston dacron sails, trailer. Complete \$850. Norm Garofano, 416 Newcastle Rd., Syracuse, NY 13219, (315) 488-8582.

WANTED – Used Snipes and trailers for refinishing purposes. Port Snipe, Robert Munyon, Shore Rd, North Brookfield, MA 01535, phone (413) 867-2711 atter 5 PM. FOR SALE – Lofland Snipe 18310. Self-rescuing, tan hull, white deck. Proctor E keelstepped with winch. Vector sails, Elvstrom bailer and tailer. Excellent condition, dry sailed, seldom used. A sacrifice at \$1000. Dan Novak, 1255 N. Sandberg, Chicago, IL 60610. (312) 822-3642 day, 337-7391 night.

FOR SALE – Old style Cobra spreaders \$4.00 pair; old style Cobra gooseneck \$4.00. Include \$1.00 postage Earl Elms, 4035-R Pacific Highway, San Diego, CA 92110.

### Sanctioned Snipe Regattas

AUGUST 2-6 EUROPE AND AFRICA JUN-IOR SNIPE CHAMPIONSHIP. Real Club Natico of Alicante, Spain. 5 entries from each country-free lodging at local hotels.

AUGUST 5-6 ONTARIO OPEN, Oakville YS, Anne Crook, P. O. Box 144, Oakville, Ontario, Canada.

AUGUST 5-6, PROVINCE OF ONTARIO CHAMPIONSHIP, Anne Crook, 263 Sandwell Dr., Oakville, Ontario, Canada.

AUGUST 5-6, DIAMOND LAKE JUNIOR OPEN, Bud Leonard, 9750 S. Utica, Evergreen Park, IL 60642

AUGUST 11-13, INTERNATIONAL RE-GATTA OF PORTOROZ, Yacht Club "Pirat," 66320 Portoroz, Yugoslavia.

AUGUST 11-12 U. S. JUNIOR NATIONAL CHAMPIONSHIP, Ft. Gibson, Oklahoma. Jack Zink, P. O. Box 7388, Tulsa, OK 74105.

AUGUST 13-17 U. S. NATIONAL CHAM-PIONSHIP, Ft. Gibson, Oklahoma. Measuring Aug. 10-12. Crosby, Heinzerling and Wells starting August 13. Jack Zink, P. O. Box 7388, Tulsa, OK 74105

AUGUST 19-20, BOARD OF GOVERNORS INVITATIONAL, Quassapaug Yacht Club, Edmund J. Daly, 193 Clough Rd., Waterbury, CT 06700.

AUGUST 20-25 CANADIAN NATIONAL CHAMPIONSHIPS, Barrie Yacht Club, Aug 20-21 measuring and tune up, Aug 22-24 5 race championship series. Aug 25 spare day. Dr. Bill Evans, 7 Vine Crescent, Barrie, Ontario, Canada.

AUGUST 26-27, CHAMPAGNE REGATTA, Robert Wightman, 135 E. William St., Bath, NY 14810

AUGUST 26-27 HOOSIER HARVEST, Muncie Fleet, Steve Barb, 400 Chinquiapin Way, Muncie, IN 47304

AUGUST 26-27, DEVIL'S NEST ANNUAL, Lewis and Clark Lake, Daniel Bockelmann, 5610 Nicholas St., Omaha, NB 68132. SEPTEMBER 9-10, HOSPITALITY REGAT-TA, Weatherby Lake Snipe Fleet, Hanns H. Hagen, 9909 NW 74th, Kansas City, MO 64152.

SEPTEMBER 9-10 INDIANA OPEN, Indianapolis Fleet, Jerry Peterson, 5844 Eastview Ct, Indianapolis, IN 46250.

SEPTEMBER 16-17, MASSACHUSETTS BAY OPEN, Mass Bay Fleet, R. F. Wood, 36 Sagamore Ave., Winthrop, MA 02152.

SEPTEMBER 16-17, JOE RAMEL MEM-ORIAL Regatta, Lotawana Snipe Fleet, Marian Petersen, L-12 Lake Lotawana, Rt. 1, Lee's Summit, MO 64063.

SEPT. 16-17 CHICAGO INDIAN SUMMER, Louis Spencer, 8635 S. 84th Court, Hickory Hills, IL 60457

SEPTEMBER 23-24, LAST CHANCE, Crystal Lake, Terry Gilkinson, 231 Lake Shore Dr., Crystal Lake, IL 60014.

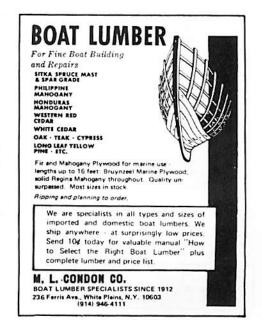
OCTOBER 7-8 OXFORD INCIDENT and OHIO OPEN CHAMPIONSHIP, Acton Lake, Robert L. Hill, 11422 Pippin Rd, Cincinnati, OH 45231.

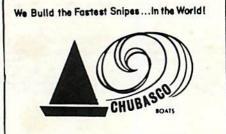
OCTOBER 21-22, GEORGIA STATE OPEN, John T. Friis, Box 2551, Valdosta, GA 31601

OCTOBER 28-29, HOSPITALITY REGAT-TA, John L. Whitfield, Jr., Box 4282, Jackson, MS 39216

NOVEMBER 4-5, HALLOWEEN REGATTA, J. H. West, 685 Fair Oak Manor NW, Atlanta, GA 30327.







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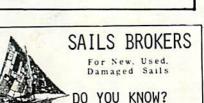
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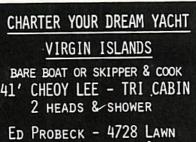
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