# NATSNEWS NATS



**RC SOARING | FREE FLIGHT** 

## **RES | NOS | TWO-METER**

he RC Soaring Medley continued Tuesday with pilots again alternating between RES, NOS, and Two-Meter events. Clouds stayed prominent in the air, with an occasional sprinkle of rain, but three rounds of each class were completed.

The RC Soaring Medley—running three events at the same time—was new to pilots this year. Everyone was kept on his or her toes—running to and from the winch lines, launching for 10-minute rounds, and switching to a different airplane in preparation for the next class's flights. Often, the words "We need a timer over here!" echoed across the field as fliers scrambled to time for one another between flights.

The final rounds were complete by mid-afternoon. Pilots began the tedious process of tearing down and safely storing their delicate airplanes as final scores were tallied.

Before announcing the winners, the League of Silent Flight (LSF), an AMA Special Interest Group, completed its membership meeting with reports from officers and discussions for next year's RC Soaring Nats. During the meeting, a special award was presented to Gordy Stahl, recognizing his contributions to the RC Soaring community.

The 2018 RC Soaring Two-Meter Nats winners are Doug Pike, fourth place; Wally Adasczik, third place; Gavin Trussell, second place; and Kent Nogy, first place. In RES, fourth place went to Don Cleveland; third place, David Beach; second place, Amy Pool; and first place went to Randall Everley. In NOS, fourth place was Gavin Trussell; third, Arthur Hill; second, Guy Russo; and first place was Johnny Berlin. The evening concluded with a barbecue dinner sponsored by the LSF.

Today is the start of Unlimited Soaring, which runs through Thursday. This is a popular RC Soaring Nats event, with 50 pilots registered to participate.

-Ashley Rauen



































Plc	Pilot	1	2	3	4	5	6	7	Total
1	EVERLEY, RANDALL	1021.67	1067.00	1053.00	1093.31	1073.00	1061.33	1086.67	7455.9
2	POOL, AMY	1054.33	1035.29	1086.67	1041.00	1067.67	1094.00	1074.31	7453.2
3	BEACH, DAVID	1092.00	1018.67	1046.00	1079.00	996.64	1069.00	1067.00	7368.3
4	CLEVELAND, DON	1075.66	1061.99	1067.33	988.31	1046.66	1066.67	1049.93	7356.5
5	BATES, KENNETH	1000.00	1047.67	993.33	1096.00	1082.33	1076.00	1053.00	7348.3
6	RUSSO, GUY	1070.66	1083.33	998.33	1071.33	1042.00	998.33	1049.00	7312.9
7	NOGY, L KENT	1000.00	1097.00	1072.33	832.36	1075.00	1082.00	1090.00	7248.6
8	SCHLITZKUS, PETER	1031.98	1045.67	1012.33	854.87	1050.33	1023.19	1077.00	7095.3
9	GAUGER, GILBERT	932.52	1009.33	1074.67	1082.00	1053.93	787.00	1037.00	6976.4
L <b>O</b>	SHAPE, J	1000.00	1039.67	1052.67	654.16	1081.00	1000.00	1004.32	6831.8
11	WIMBISH, WAYNE	1051.67	1058.00	988.33	879.61	1084.00	732.33	981.67	6775.6
2	JOHNSTON, RICK	940.53	730.81	1098.00	781.72	1084.00	1086.33	1047.67	6769.0
13	PIKE, DOUG	1054.33	1059.66	1033.00	654.54	988.33	839.66	1076.67	6706.1
4	STROTHER, BERNARD	1021.33	1042.33	1017.00	657.21	940.24	1029.00	996.67	6703.7
L <b>5</b>	ADASCZIK, WALTER	359.80	1047.00	1003.33	1052.00	1046.67	1000.00	1029.66	6538.4
L6	CARR, JEFFREY	937.04	1043.00	1029.99	449.83	1059.33	994.98	998.33	6512.5
.7	RICHMOND, DONALD	1067.00	531.44	731.22	1007.99	1073.00	939.27	1084.00	6433.9
L8	POTI, NORMAN	620.00	1041.67	1052.00	742.36	1073.58	745.33	1034.33	6309.2
9	LINDSAY, JOHN	750.84	1042.33	527.55	731.02	750.00	1046.00	1057.33	5905.0
20	WOMACK, JACKIE	787.04	340.57	998.33	617.90	1065.00	998.33	1000.00	5807.1
21	<b>BOTHELL, RICHARD</b>	1063.00	1000.00	1057.98	681.81	993.33	0.00	862.06	5658.1
22	IMMANUEL, DAVID	108.51	730.64	1013.00	998.33	990.00	710.42	1026.33	5577.2
23	BOICE, THOMAS	512.67	991.64	1005.33	543.67	1068.00	1051.99	402.34	5575.6
24	<b>ROBINSON, ROBERT</b>	685.19	1000.00	1022.33	441.30	1079.00	381.67	666.40	5275.8
25	BROESKI, THOMAS	497.50	801.82	661.10	812.23	498.33	993.33	1000.00	5264.3
26	MCGOWAN, MICHAEL	425.96	1050.33	471.33	676.97	1077.67	450.76	996.67	5149.6
27	MARTIN, JAMES	492.49	586.15	905.38	944.56	406.67	1095.00	300.68	4730.9
28	WALLNER, JACK	1090.33	438.13	896.67	513.10	399.84	595.96	769.33	4703.3
29	SCULLY, TOM	1016.33	530.88	1059.00	1033.07	494.98	300.50	261.67	4696.4
30	HILL, ARTHUR	250.42	510.00	988.31	544.77	479.87	917.65	991.67	4682.0
31	<b>RENNECAMP, RICHARD</b>	309.51	834.72	998.33	766.28	422.40	585.00	668.33	4584.5
32	GRIFFITH, JERRY	623.21	365.61	0.00	747.44	655.81	1056.32	989.98	4438.3
33	BLACK, SCOTT	235.39	366.22	1010.00	553.55	1065.95	421.40	440.00	4092.5
34	ANDERSON, TODD	379.63	495.00	780.24	596.79	354.52	670.33	290.54	3567.0
35	MEEK, ROBIN	978.67	432.39	839.01	714.77	0.00	406.72	189.19	3560.7
36	CUNNINGHAM, WILLIAM	379.93	443.14	618.33	326.92	711.67	355.00	526.67	3361.6
37	MARIEN, JOHN	190.32	306.02	622.67	244.15	354.46	291.67	229.73	2239.0
38	TAMEZ, JULIAN	0.00	993.33	0.00	0.00	0.00	0.00	0.00	993.3

2018 Soaring NATS - RES





	Round / Combined - 0//22/2018								
Plc	Pilot	1	2	3	4	5	6	7	Total
1	NOGY, L KENT	963.40	1074.00	1067.00	1093.00	1060.00	1022.00	1091.00	7370.40
2	TRUSSELL, GAVIN	1059.00	849.14	1082.00	1084.00	1054.00	1070.00	1062.33	7260.47
3	ADASCZIK, WALTER	1081.00	1000.00	1021.15	988.04	1000.00	993.33	1079.00	7162.52
4	PIKE, DOUG	749.45	1081.67	1083.00	1078.00	804.89	1082.66	1086.00	6965.66
5	SHAPE, J	1044.00	931.44	832.77	1035.04	950.34	1071.00	1030.24	6894.83
6	EVERLEY, RANDALL	1066.66	1059.00	803.04	708.47	1096.00	1045.00	911.18	6689.35
7	MYERS, NOAH	1023.00	551.67	1097.00	692.02	1079.00	1058.33	1074.33	6575.35
8	BATES, KENNETH	858.03	705.00	1067.33	824.82	1000.00	998.33	961.36	6414.87
9	BEACH, DAVID	766.78	934.56	411.76	1026.00	1000.00	1066.33	923.88	6129.31
10	SCULLY, TOM	1034.66	1026.32	991.65	590.35	571.88	1035.33	789.25	6039.45
11	CARR, JEFFREY	1043.12	1055.00	695.91	688.73	828.14	1061.00	632.58	6004.47
12	MARTIN, JAMES	1034.00	863.31	682.34	722.71	697.71	1089.00	878.99	5968.06
13	RUSSO, GUY	1089.67	1000.00	563.78	729.00	474.12	1016.63	863.89	5737.09
14	JOHNSTON, RICK	653.00	1034.00	372.78	990.17	493.07	1025.00	1096.33	5664.35
15	POOL, AMY	751.26	306.75	1042.95	836.54	854.64	1032.00	699.50	5523.64
16	BERLIN, JOHNNY	882.72	680.33	988.31	646.61	656.61	689.01	834.72	5378.32
17	MARIEN, JOHN	535.00	895.39	988.31	848.45	751.25	555.67	763.90	5337.97
18	<b>BROESKI, THOMAS</b>	811.74	1061.66	1040.06	822.44	322.12	666.67	527.47	5252.16
19	<b>BOTHELL, RICHARD</b>	288.33	463.21	1081.00	709.68	527.13	994.33	708.59	4772.28
20	RICHMOND, DONALD	589.07	522.33	733.14	791.29	407.35	525.00	1034.00	4602.18
21	MCGOWAN, MICHAEL	630.87	439.93	311.56	1012.07	542.04	1048.66	578.33	4563.47
22	SCHLITZKUS, PETER	465.66	435.98	739.74	636.89	416.02	735.00	608.33	4037.62
23	WALLNER, JACK	888.68	1063.66	367.31	411.37	439.00	326.00	287.67	3783.69
24	ANDERSON, TODD	239.70	365.61	657.04	514.97	611.11	591.67	618.13	3598.22
25	MEEK, ROBIN	444.33	403.01	297.16	766.47	297.16	603.33	351.67	3163.13
26	LINDSAY, JOHN	225.00	612.67	319.63	869.38	0.00	0.00	0.00	2026.67
27	GAUGER, GILBERT	501.98	0.00	315.97	552.07	0.00	0.00	0.00	1370.02

#### 2018 Soaring NATS - 2M

#### Round 7 Combined - 07/22/2018

#### 2018 Soaring NATS - NOS

#### Round 7 Combined - 07/22/2018

					0// 22/1				
Plc	Pilot	1	2	3	4	5	6	7	Total
1	BERLIN, JOHNNY	1021.66	1013.31	858.33	583.65	1000.00	1000.00	1000.00	6476.96
2	RUSSO, GUY	1025.00	279.26	1025.00	1025.00	933.18	969.88	1025.00	6282.33
3	HILL, ARTHUR	506.89	752.23	964.39	1000.00	1000.00	881.08	886.32	5990.91
4	TRUSSELL, GAVIN	1025.00	833.51	1025.00	252.09	1025.00	822.22	1000.00	5982.82
5	SHAPE, J	984.80	1025.00	862.25	295.49	944.40	1025.00	708.01	5844.96
6	BEACH, DAVID	283.81	1000.00	713.24	1025.00	1018.32	776.32	1011.62	5828.30
7	BATES, KENNETH	1023.32	1025.00	872.57	778.33	856.72	875.56	394.99	5826.49
8	CARR, JEFFREY	1021.66	427.38	1025.00	772.91	444.07	1025.00	998.33	5714.36
9	WOMACK, JACKIE	1023.33	264.13	1000.00	1025.00	680.33	1025.00	653.99	5671.77
10	ADASCZIK, WALTER	1000.00	1025.00	816.67	730.20	738.54	526.24	688.40	5525.05
11	STROTHER, BERNARD	899.68	1025.00	819.70	701.52	933.36	656.58	412.33	5448.16
12	WALLNER, JACK	988.98	510.07	678.33	494.30	661.61	1000.00	994.98	5328.27
13	POTI, NORMAN	1025.00	868.79	1025.00	1025.00	877.05	0.00	0.00	4820.84
14	RICHMOND, DONALD	303.18	574.47	1023.33	1016.65	1013.85	839.96	0.00	4771.44
15	SCULLY, TOM	256.28	545.09	622.70	549.43	1025.00	724.57	1000.00	4723.07
16	<b>ROBINSON, ROBERT</b>	1000.00	496.64	1023.33	307.18	542.53	287.63	1000.00	4657.31
17	BOICE, THOMAS	590.51	422.82	734.20	313.81	1025.00	396.05	1000.00	4482.39
18	BOTHELL, RICHARD	518.11	535.71	790.49	528.80	980.39	329.43	783.17	4466.12
19	BLACK, SCOTT	522.36	229.10	500.84	938.23	617.99	742.22	751.63	4302.38
20	GROVES, MARK	597.80	663.12	570.99	488.33	534.18	773.33	588.24	4215.99
21	MARIEN, JOHN	461.89	736.61	829.02	213.69	773.58	673.23	113.68	3801.70
22	MEEK, ROBIN	660.19	591.96	432.84	667.63	546.86	349.50	458.53	3707.51
23	<b>BROESKI, THOMAS</b>	480.18	937.92	695.59	541.67	0.00	672.46	377.25	3705.07
24	MARTIN, JAMES	358.92	382.30	673.24	760.00	551.91	0.00	613.41	3339.78
25	TAMEZ, JULIAN	815.43	495.83	500.79	517.53	0.00	0.00	0.00	2329.58
26	IMMANUEL, DAVID	0.00	0.00	0.00	0.00	629.85	822.22	711.96	2164.03
27	SCHLITZKUS, PETER	592.23	652.48	417.32	0.00	0.00	0.00	0.00	1662.04
28	GAUGER, GILBERT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	<b>RENNECAMP, RICHARD</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### FREE FLIGHT

Il days for staff are early days of getting ready for all of the fliers who are coming. Tasks include setting up flightlines, figuring out where to put the NFFS trailer, getting out the scoreboards, and processing models.

Tuesday morning confronted us with light fog that was lifting slowly. CD Faust Parker released a helium balloon to assess the drift and the balloon disappeared after a few minutes, heading east-southeast. Mist covered the local fields, but the skies were clearing.

The forecast was partly cloudy. The flightline was set up on the very west edge. As the day went on, it turned out to be a good choice; the air was pretty buoyant and airplanes started filling the air.

It's a good thing to have many families and partners attend the Nats too.

C Gas was evident with the screaming engines of 15 fliers. The pilots get that rush of adrenaline with those big models. Guy Mennano cranked out 17 maxes, plus a minute, for a total of 2,100 seconds for first. Wow! Congrats Guy! Gerald Brown did his best with 869 for 2<sup>nd</sup> place, and Jim Demeritte was at 750 for 3<sup>rd</sup>. It seemed like the race was for the 2<sup>nd</sup> and 3<sup>rd</sup> places in this event.

The One-Design Combo event this year was won by Glen Schneider, who bested 13 other fliers with a score of 1,315. That's missing 11 maxes by only 5 seconds! The nearest competitor was Rudy Kluiber at 827. Congrats, Glenn, on your achievement.

A-NOS was no slam dunk either, again with 15 fliers. Seven maxes was the bar. Bob Sowder got 840, besting Simon Blake who had 801. NOS isn't specifically known for high performance over AMA Gas.

Taking first in F1Q was Bob Sifleet at 1,260, seven maxes(!), with Dick Ivers at 1,244 and Jack Murphy 3 seconds behind Dick with 1,241! "Q" has an interesting set of rules. This is an event in which, depending upon your model, the motor run can change. This is determined by the energy of the motor. There is an "energy limiter" on board that controls the power of the motor. It's not unusual to see an F1Q lumbering along in the sky.

On another note, this is an electric event and the rain was a concern. Fortunately, it had no effect on the contest. One has to be impressed with the performance of electric models, which is sometimes better than the gas models. F1C only had four entries with two people flying. Don Chesson and Dick Mathis were tied at the end of the first round. However, Dick's model was lost (later found) and it was decided not to fly again.

Ken Bauer topped F1H as he did last year, with a perfect score of 600. Mike McKeever was a close second at 544, and Mike Fedor was 10 seconds behind at 534. The top Junior was Wes Reuter with some decent flying, too.

Speaking of possible rain or water ... riseoff-water (ROW) had its own challenges. Launching off water is not the usual practice of Power fliers, but three did in Gas. It was challenging to say the least. Mike Fedor took first with a 204 and Dan Berry took second with 157. Entertaining would be a good description of ROW.

Ted Firster won ROW Rubber, another "challenging" event.

Mulvihill had 15 Open fliers, one Senior flier, and three Junior fliers. Again, it took some great flying to win. Chuck Markos won the coveted Mulvihill Trophy with an impressive 1,622 seconds. That's making the 6-minute max flight!

Being that this event is a graduated max event—2, 3, 4, 5 minutes, etc.—it takes real ability. Bud Romak was only about 2 minutes behind Chuck with 1,534 seconds and noted gas flier, Gerald Brown, flew 1,184, with Duncan McBride following at 1,051. Great flying guys!

Not to be shown up, Hailey Mattson scored 264 for first in the Senior class. In the Junior class, the competitors finished as follows: Bradin Powell 1<sup>st</sup> with 288, Elliot Plantner 2<sup>nd</sup> with 148, and William Reuter 3<sup>rd</sup> at 119. Well done!

In the "Pen," 22 fliers tried to max out in OT Catapult, but alas, air picking was tough. The winner, Don DeLoach, repeated his Nats win with a score of 356 seconds! All of the top eight fliers were over 200 seconds, which was good flying considering the heavy, overcast day. One comment made was that later in the day, even with the overcast, the air was pretty buoyant.

Jetex had five fliers. Bobby Hanford, another gas flier, won the event with 240 seconds! Chris Matsuno, last year's winner, took second with 208 and Rudy Kluiber was 3<sup>rd</sup> with a 171. It's a lot of smoke if you are doing it right. Doing it right means having a good fuse. Those models are getting touchy to trim, especially with the shortage of fuel pellets and good fuse material.

OT Rubber Cabin had seven fliers this year—about half of last year's number of contestants. Ray Boyd from Denver—and fairly new at this game—took first with 924 seconds. That's making the four-minute flyoff flight and adding another 144 seconds to confirm his win. Ed Sneed came in second with 750, and Don DeLoach with 734 for 3<sup>rd</sup> was pretty impressive too—all good flying!

Results for the Beat the Vart: The event was flown in two rounds, with the first round having Randall Krystosek doing 156 and Lee Hines over 3 minutes. The flyoff round had Randall edging out Lee 68 to 62. I don't have the total line scores, but if they become available, I will try to find a place for them.

Thermals! 🛲

-Rick Pangell













Debra Hale stretching her Old Time Catapult model to the limit.



David and Jennifer Jones, another family team.



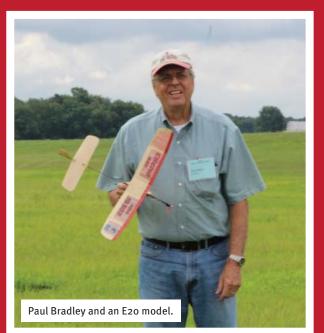
Bradin Powell and his Mulvihill-winning Gollywock.







Ralph Ray and Randall Krystosek, Old Time Catapult Launch Glider (OTCLG).















Chris Matsuno and his many-years-old Jetex. Mike Richards is "assisting."



Many-time world champion, Alex Andruikov.



ROW Rubber winners.



Jetex winners.





A NOS Gas winners.



SAM OT Rubber Cabin winners.



SAM Old Time Catapult winners.



The 1/2A NOS Electric winner.



C Gas winners.



Junior F1H winner Wes Reuter.



Junior Mulvihill winners: Bradin Powell 1<sup>st</sup>, William Reuter 3<sup>rd</sup>, and Elliot Plantner 2<sup>nd</sup>.



F1H winners.



Senior Mulvihill winner Hailey Mattson.



F1Q winners.



ROW Gas winners.



Open Mulvihill winners.

# FREE FLIGHT SCORES

E.

Mulvihill (J)(S)(A)					
А					
Last Name	First Name	Score			
MARKOS	CHARLES	1622			
ROMAK	BUD	1543			
BROWN	GERALD	1184			
MCBRIDE	DUNCAN	1051			
HARDIN	EDWARD	772			
SNEED	ED	742			
VANCIL	MARK	533			
JONES	DAVID	503			
FERWERDA	JAMES	502			
PIVONKA	JACE	481			
JONES	GERALYN	465			
OREILLY	JIM	289			
BOYD	RAY	247			
DELOACH	DON	120			
TOMASCH	WALTER	120			
	S	_			
MATTSON	HAILEY	264			
	J				
POWELL	BRADIN	288			
PLANTNER	ELLIOT	148			
REUTER	WILLIAM	119			
F1Q Ele	ctric Power (J	SA)			

F1Q Electric Power (JSA)					
Last Name	First Name	Score			
SIFLEET	ROBERT	1260			
IVERS	RICHARD	1244			
MURPHY	JACK	1241			
IOERGER	THOMAS	1206			
SCHLOSBERG	ARAM	1198			
RICHARDSON	Μ	91			

JETEX (JSA)					
Last Name	First Name	Score			
HANFORD	ROBERT	240			
MATSUNO	CHRIS	208			
KLUIBER	RUDY	171			
OLIVER	JOHN	79			
PANGELL	RICK	29			

1 DESIGN COMBO (JSA)				
Last Name	First Name	Score		
SCHNEIDER	GLENN	1315		
KLUIBER	RUDY	827		
MARSH	DOUGLAS	669		
SOWDER	BOB	595		
SMITH	ROY	480		
DOCK	DENNY	474		
SPERZEL	HANK	474		
BATZ	THOMAS	333		
SMITH	GENE	329		
ERRIDGE	ROGER	294		
BOYLE	J	262		
KACMARSKY	RICHARD	260		
DARLING	CLARK	183		
SPENCE	STEVE	120		

	Cabin /la + am				
Last Name	Cabin (lg + sm				
	First Name	Score			
BOYD	RAY	924			
SNEED	ED	750			
DELOACH	DON	734			
MCBRIDE	DUNCAN	420			
BROOKS	CLINTON	352			
STOTT	JOHN	316			
POWELL	CHUCK	120			
от с	atapult (JSA)				
Last Name	First Name	Score			
DELOACH	DON	356			
BATIUK	TIM	322			
DALECKI	GEORGE	302			
KRYSTOSEK	RANDALL	287			
PIVONKA	JACE	274			
	JAN	223			
POWELL	CHUCK	-			
		223			
POWELL		215			
SCHLARB	W DEBRA	183			
HALE		180			
BAYS	KIT	148			
FURUTANI	NORMAN	147			
WICKS	WILLIAM	116			
LOOMIS	W	104			
PANGELL	RICK	89			
WICKS	IAN	85			
REUTER	WES	85			
HALE	DAVID	83			
PLANTNER	ELLIOT	82			
KACMARSKY	RICHARD	81			
JONES	DAROLD	72			
LEWIS	JAMES	43			
A No	s Gas (JSA)				
Last Name	First Name	Score			
SOWDER	BOB	840			
BLAKE	SIMON	801			
SMITH	GENE	668			
	RUTH				
BANE		588			
SMITH	ROY	581			
HANFORD	ROBERT	463			
ERRIDGE	ROGER	450			
DOCK	DENNY	360			
MARSH	DOUGLAS	346			
MARSH	P JACK	326			
LAPRAIK	SCOTT	303			
SCHNEIDER	GLENN	246			
KACMARSKY	RICHARD	233			
DAVIDSON	LARRY	104			
DUNHAM	ROBERT	102			
F	IC (JSA)				
	1C (JSA) First Name	Score			
Last Name	First Name	<b>Score</b>			
		<b>Score</b> 180 180			

Mulvihill (J)(S)(A)				
	Α			
Last Name	First Name	Score		
MARKOS	CHARLES	1622		
ROMAK	BUD	1543		
BROWN	GERALD	1184		
MCBRIDE	DUNCAN	1051		
HARDIN	EDWARD	772		
SNEED	ED	742		
VANCIL	MARK	533		
JONES	DAVID	503		
FERWERDA	JAMES	502		
PIVONKA	JACE	481		
JONES	GERALYN	465		
OREILLY	JIM	289		
BOYD	RAY	247		
DELOACH	DON	120		
TOMASCH	WALTER	120		
	S			
MATTSON	HAILEY	264		
	J			
POWELL	BRADIN	288		
PLANTNER	ELLIOT	148		
REUTER	WILLIAM	119		
	(10.1)			
	Gas (JSA)			
Last Name	First Name	Score		
MENANNO	GUY	2100		

First Name	Score					
GUY	2100					
GERALD	869					
JAMES	750					
DANIEL	674					
ROBERT	645					
DICK	581					
P JACK	573					
DENNY	469					
HANK	465					
RONNIE	452					
ROBERT	451					
JIM	347					
H THOMAS	345					
SCOTT	240					
TERRY	71					
	First Name GUY GERALD JAMES DANIEL ROBERT DICK P JACK DENNY HANK RONNIE ROBERT JIM H THOMAS SCOTT					

F1H (JSA)				
Last Name	First Name	Score		
BAUER	KENNETH	600		
MCKEEVER	MIKE	544		
FEDOR	MIKE	534		
HACK	JAMES	475		
REUTER	WES	66		

101-105 ROW GAS (JSO) (JSA)				
Last Name	First Name	Score		
FEDOR	MIKE	204		
BERRY	DANIEL	157		
KELLY	JAMES	6		



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