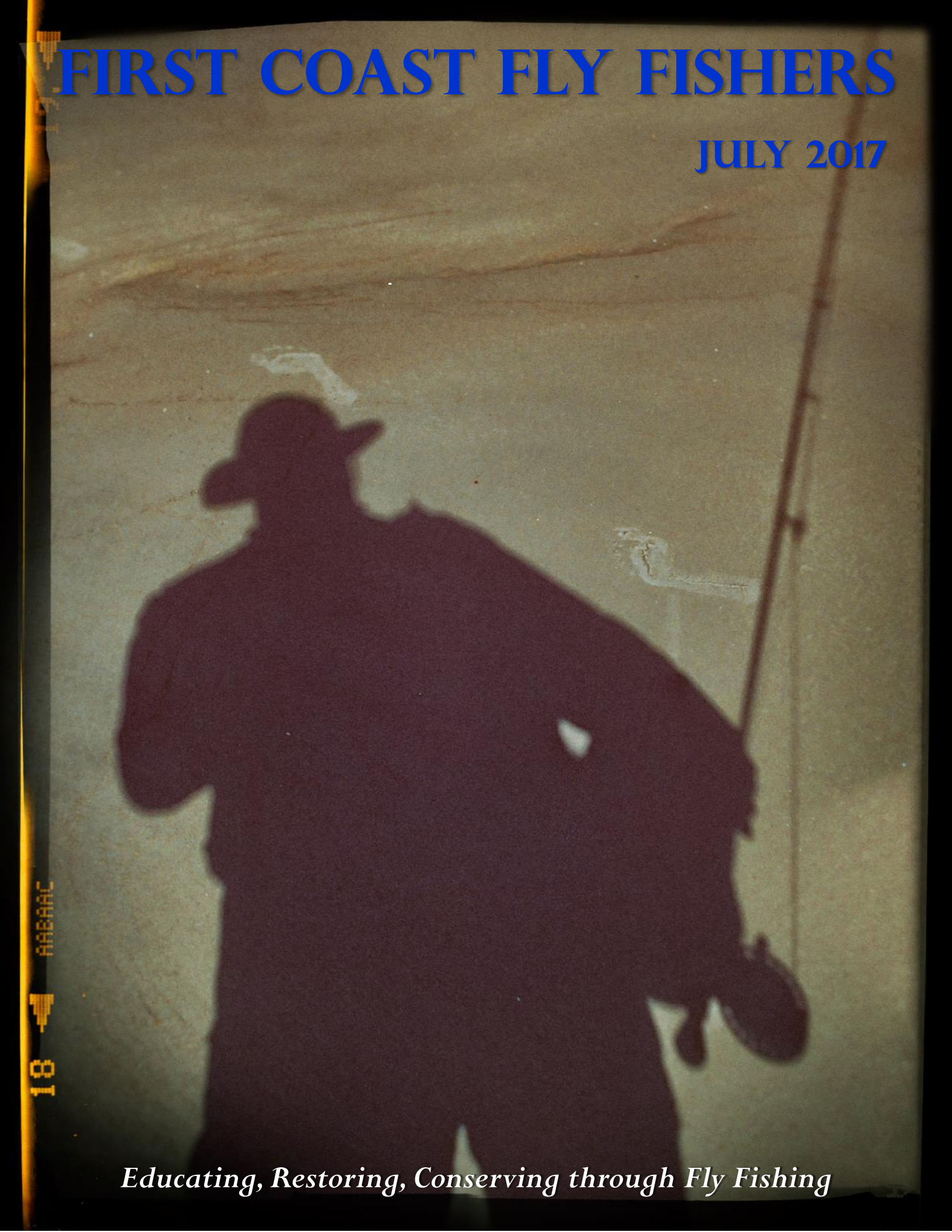
FIRST COAST FLY FISHERS

JULY 2017



Educating, Restoring, Conserving through Fly Fishing

FCFF Meeting 7 PM July 10, 2017
Southpoint Marriott

The Oceans are Changing. How do we keep up?

Cameron Jaggard
Pew Charitable Trust

Environmental issues have long been a political football. Those of us who have spent any measurable amount of time on the water are quick to realize that the natural environment is constantly changing due to both natural and manmade forces. One person who has been on the forefront of policy making for our nation's fisheries has been Cameron Jaggard. Join us as we welcome Cameron to the First Coast Fly Fishers on Monday July 10th. Cameron will be speaking about our every changing ocean and what can be done to ensure our fisheries remain a sustainable resource for years to come.

Cameron is a Principal Associate with The Pew Charitable Trusts, U.S. Oceans, Southeast Team. During his more than seven years with Pew, Cameron has worked on a variety of campaigns to reduce bycatch in the U.S. pelagic longline fishery, protect Florida's forage fish, and otherwise advance ecosystem-based fishery management. Before joining Pew, Cameron worked on salmon conservation at the Institute for Fisheries Resources in San Francisco, CA and as an environmental consultant in Florida. Cameron holds a BA in Environmental Policy from Rollins College and an environmental science certificate from Florida Atlantic University. In his free time he likes to surf, fish, hike, and mountain bike near his hometown of Tequesta, FL.

The weather is hot and so is the fishing. If you have not been on the water in a while what are you waiting for? If you are a little rusty and need a little help with your casting, bring your rod to Monday's meeting and spend a little time tuning up with one of our casting instructors. It's free and it is why you joined the club!

Reminder...If you are planning to attend the July 21 and 22 outing in Stuart, be sure to call the River Palms Cottages (772) 334-0401 to see if rooms are still available.

On the Cover:
Beach Walker
Photograph by Jason Sheasley

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Another year has gone by and we felt there were enough new and exciting 9' 5-weight rods on the market, that it was time to give you our 2017 5-weight Shootout.

Although we have tested 6-weight versions of the Winston Air, Sage X, Douglas Sky, and G. Loomis Asquith last fall, we thought anglers would be interested to see how their 5-weight partners compare. Five weight rods are still the most popular and usually the most important fly rod for fresh water anglers, especially for dry fly fanatics who want the ultimate in presentation and accuracy in the 25-45 foot range.

Everyone wants to know how the new Sage X stacks up, as well as the G. Loomis Asquith. Other new 5-weights that were especially impressive are the new Thomas and Thomas Avantt, and the Douglas Sky. After having the Douglas Sky win our 6-weight Shootout, we were chomping at the bit to see if this 5-weight was as good. It didn't win, but it did very well against some stiff competition.

We also had other new rods to test from Sage, Scott, Orvis, Winston, Loop, Edge and the Livingston Rod Company.

We knew going into the shootout that it was going to be difficult for a rod to knock off our all-time favorite reigning champion – the G. Loomis NRX Lite Presentation. For five years in a row now this has been our favorite all-around 5-weight rod. The NRX LP can not only throw the entire line, but also feels insanely light, smooth, and deadly accurate at short to medium distances, where most people will fish a 5-weight rod. The NRX LP is also a nymphing machine, something that has become important in a world where incredible dry fly fishing doesn't always exist.

Part of the reason no other rod has been able to take over as king of the hill, is that we simply love its action. This is a fast action rod but with a softer tip than most other 5-weights (as you'll see in our deflection charts). That softer tip combined with good butt and mid-section power is what gives the NRX LP such great feel and accuracy at short to mid-range.

We are seeing slightly stiffer rods in this 5-weight class each year, and this isn't necessarily a bad thing, especially if you are doing a lot of nymph fishing. But the fact remains that stiffer rods just do not have the best feel at short range. You can force them to be accurate by altering your casting stroke slightly to get more velocity, but this makes getting a delicate presentation more difficult.

Those who love fast action rods with tons of power will prefer the G. Loomis Asquith, Douglas Sky, Hardy Wraith, and the Thomas and Thomas Avantt. It really boils down to everyone's personal preference for rod actions. At the shorter distances that most of us use a 5 -weight rod, the G. Loomis NRX LP has best blend of power, incredible feel and superb accuracy. In a world of constant change, we applaud G. Loomis for keeping this rod in the lineup. "If it ain't broke don't fix it" is a motto we wish other major rod companies would endorse. Newer isn't always better as far as rods go, even though it might be better for sales and market share.

2017 5-Weight Shootout Results Summary

1. The G. Loomis NRX LP wins again with its unmatched feel and performance at short to medium distances.

2. The higher priced G. Loomis Asquith finished a disappointing 8th overall but 2nd in the performance only category.

3. A new rod from Thomas and Thomas, the "Avantt," put in a terrific performance and finished 4th overall.

The Reviewers

Click the photographs or use the to read each reviewer's complete casting notes and finishing order.

4. Loop dropped their price on the Opti-Steam to $429, making it our new mid-priced pick, and finished in 5th place overall.

5. No one can match the Fenwick Aetos as the best performing inexpensive rod at $189.95.

5-Weight Rods Keep Getting Better Each Year

This is a trend we see each year, as other manufacturers try to catch up with the leaders in design and performance. Remember that our shootouts give you *OUR* personal opinions and preferences. But we know from the comments we get from anglers reading our Shootouts, that the substantial majority are in general agreement with our findings.

When I look at the top twelve rods in this shootout, they are all exceptional rods, and any angler should be totally satisfied and delighted with any of them. If you had the time to try them all, you might find that your personal taste is slightly different than ours. You'll get a flavor of this when you read comments from our staff, which often differ from mine.

My son James (Jamie) and the rest of the staff here at the Yellowstone Angler that contributed to this Shootout, are all expert casters and anglers. We feel that relying upon less experienced anglers in a comparison like our Shootouts serves no useful purpose. Moreover, it is impossible to do a blind test on rods. We want to see who is producing the best craftsmanship, using the best components and doing the best finish work.

Why a 5-Weight?

A 9' 5 weight rod is probably the most versatile fly rod for freshwater anglers. It can handle everything from trout, to bass, bluegills, grayling, whitefish, walleye, perch, burbot, sauger, carp, and even catfish. A good 5 -weight rod is delicate enough to cast small dry flies and protect 6X-7X tippet, yet will also have enough power in the butt and mid-sections to turn over a strike indicator, split shot, and 2 weighted nymphs. The best

5-weight fly rods can handle a substantial amount of wind and cast woolly buggers and small streamers with ease. In short, the 5-weight rod has become the single quiver rod for many freshwater anglers.

At the Yellowstone Angler we stock a huge variety of rods for fresh and saltwater. If you are looking to specialize in a specific realm of fly-fishing we can help you find the right rod for your needs. For tiny dry fly fishing on spring creeks, a shorter 3 or 4-weight rod might be the perfect tool. For throwing large articulated streamers on a 300 grain sinking line you should look at a 7 or 8-weight fly rod. For larger saltwater species, 9-12 weight rods are the best choices. But for most anglers, and especially if you are just getting start-

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If fly rods and actions were all the same, buying a fly rod would be as much fun as buying Q-tips.

ed in fly fishing, there is no question a good 5-weight is the way to go.

Different Strokes for Different Folks

Everyone has their own personal preference for fly rod actions in the same way that we all have our own favorite colors, foods, vehicles, etc. No one is either right or wrong for liking what they like, and with fly rods it is no different. There are a tremendous number of 5-weight fly rods on the market and our job is to sort through these by doing a valid comparison, and make our recommendations of what we consider to be the best rods. You'll be able to read our analysis of each rod, which we hope will help you decide which is right for you.

Rod Actions Make A Difference

You will hear anglers talking about fast action rods, medium fast, medium and even slow action rods. Most rods today have gravitated to medium fast or fast action, which we feel are best for anglers at all levels of experience.

Fast action doesn't always mean stiff. Examine our charts and you'll see how these 5-weight rods bend. Nearly all of the top rods have a relatively stiff butt and mid section and bend much more progressively in the tip. A medium action rod bends more evenly throughout. As you will see, the medium fast and fast action rods are the best scoring rods. The stiffest rods in our Shootout are closer to a 6-weight rod, while the softer ones are closer to a 4-weight. We give you our recommendations for line size with each rod.

The rod we like the best, the Loomis NRX LP, has about the same amount of butt and mid-section power as other 5-weights, but a softer tip, which allows for better feel and accuracy at short range. Rods with stiffer tips, like the Sage X, don't feel or perform as well at short distances but come into their own when you put more line in the air. Thus their scores at 45 and 70 feet are much better than they are in close at 25 feet.

Today's fly rodder has a huge choice of rods and actions in each line weight category; multiple choices, however breed confusion. It is tough for anyone to take the time to try out all these various rods. Our Shootouts are designed to reduce this confusion and guide the reader/angler to the perfect rod for his/her needs. If fly rods and actions were all the same, buying a fly rod would be as much fun as buying Q-tips.

Why Trust Our Opinions?

After nearly 50 years, in the fly fishing business as guide, shop manager and shop owner, I've learned a lot about what it takes for a fly rod to perform well. I've helped many manufacturers with their rod design process and have built a reputation as a top angler in both fresh and saltwater fly-fishing. My son Jamie is also a fanatical fly fisherman and a great caster, and has been a very important and integral part of our Shootouts and tackle comparisons over the years. He's also responsible for all the great accompanying photographs.

In addition to my comments in the main Shootout, you'll want to read the comments from Jamie and our other Yellowstone Angler staff, JG (Josh Green) and Logan Brown. These guys are also expert casters and experienced anglers. Their choices often differ from

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mine but we are almost always in general agreement on the top 4-6 rods.

A Great Fly Rod is Not Always the Most Expensive One

As you will see when you check our Shootout Performance Scores, there are some extremely good rods in the low to mid-price range, and often they have outperformed rods that are many times more expensive. Good examples are the Fenwick Aetos at $189.95 in the low price category, and the mid-priced Douglas DXF at $349, the Loop Opti Stream at $429, and the Orvis Recon at $425. Even the Echo Base at $89.99 had a very respectable showing. But if you want the best, be prepared to spend $750 to $1000.

For experienced anglers who can afford the best rods, it makes a lot of sense to plunk down the big bucks. Our advice to both beginners and experts is to buy the best you can afford and you will never regret it. If you are only just getting started in fly-fishing, buying one of the best performing rods makes sense, and will allow you to advance much more rapidly. Even if what is the best fit for you is a little out of your original your price range, you don't want an inferior rod holding you back.

I've always felt that the key to catching big fish on dry flies is casting accuracy. And having a nice light rod (in swing weight) in your hand all day pays big dividends in terms of fatigue, especially when you are doing a lot of false casting. This is why we put such a big emphasis on swing weight. The lightest rods are invariably the best performing rods.

The best rods have that wow factor that will impress your buddies. Are you comfortable showing up with a $200 rod when everyone else has one of the hotshot $750 to $1000 rods in their hands? It's also nice to look down at your rod and appreciate the craftsmanship as well as its performance. Is that high priced rod really $400-$600 better? Only you can make that decision. With the inexpensive warranties that most manufacturers offer now, you are going to use your new rod for many years, which makes it easier to justify buying a more expensive rod.

Experience has shown us that novices entering the sport of fly-fishing often opt for less expensive rods, hoping to economize, but over time come to realize that the ease of casting a better higher priced rod will allow them to progress their casting skills more rapidly. The result: the cheaper outfit is mothballed, sold for a loss on e-bay, or handed down to a skeptical relative. Don't make this common beginners mistake! Avoid it by purchasing the best fly rod you can, and shorten your casting learning curve. We think that our Shootouts can help you make the best decision when you go to purchase your new favorite rod!

Keeping it Apples to Apples

As in our prior Shootouts, it is critical to eliminate as many variables as possible. This means that we will set up each rod we test with the exact same reel, line, amount of backing and identical leader.

This year we have decided to use our favorite 5/6 weight reel, the Galvan Torque 5, which won our recent 5/6 Reel Shootout. We combined the T-5 with our favorite line, the Scientific Anglers MPX Mastery, but in the new Amplitude version in WF-5-F. For the softer rods we had a Mastery Trout in WF-5-F on hand to try, but few rods cast better with it.

Leaders are an important part of the set-up and for this Shootout we used our own hand tied leaders in 12-foot 4X. A 9 foot leader is actually easier to turn over, but any rod can do this. Using a 12 foot leader let us know which rods performed effortlessly and which rods couldn't quite get it done.

By setting up all the rods identically, it becomes easy to take a few casts with one, lay it down and pick up another rod and do the same at each specific distance. Just taking the time to adjust the amount of line you're casting or stripping all the line off the rod, then loading up another affects your ability to process your impressions of one rod after another. We strive to make the impressions seamless.

In this fashion, we can test 2-4 rods at a specific distance quickly in sequence. This is the best way to determine subtle differences between rods. It was always good to have what we felt was the best rod in the category (low, mid and high price) there on hand to make an immediate head to head comparison.

Cutting Through the Marketing B.S.

The purpose of our Shootouts has always been to cut through the massive amount of marketing B.S. you'll see from the manufactures and in the magazines and to give you our honest opinions. Some of our comments are going to be negative, and you won't ever find reviews like ours in fly-fishing magazines. Magazine editors need to protect their clients from negative publicity, not create it, if they want the manufacturers to continue their advertising.

Our primary goal is to provide you - the consumer -with honest reviews that will help you pick the best fly rod for your fishing needs. Like a good restaurant or movie critic, we are simply trying to give you our honest opinions.

Reels

This year we decided to switch things and use the Galvan T-5 reels in our Shootout. This is the reel that won our 2016 5/6 Reel Shootout. These have proven to be terrific reels - light and durable, with a very smooth and highly adjustable drag. They are basically maintenance free - using rulon bushings that require no maintenance or lubrication. We used Galvan's T-5 with a capacity of 115 yds. of 20 lb. Micron backing with a WF-5-F line. The T-4 will work fine too, if you prefer a slightly smaller and lighter reel, but then you are limited to about 70 yards of backing and a WF-5-F line, (which is also plenty for most trout).

Lines

As in the past, we chose our favorite Scientific Angler's WF-5-F MPX taper line. This year however, we decided to try Scientific Angler's new MPX "Amplitude" line, which has a low friction textured coating rather than the original Scientific Angler's MPX Mastery series, which has a smooth coating.

The Amplitude incorporates SA's new AST PLUS slickness additive, allegedly for superior shooting capability and increased durability. This impregnated additive is designed to emerge time, which means little to no line cleaning to keep the line shooting well and resisting tangles.

So we'll see if these claims bear up over time. Like the mastery MPX, the Amplitude MPX is a half size larger line but it is textured and does make a little more noise going through the guides. If the Amplitude proves to perform better and hold up better, the extra sound and higher price are something that we will live with. Otherwise, for now our favorite line continues to be the smooth, silent casting Mastery MPX or Trout lines.

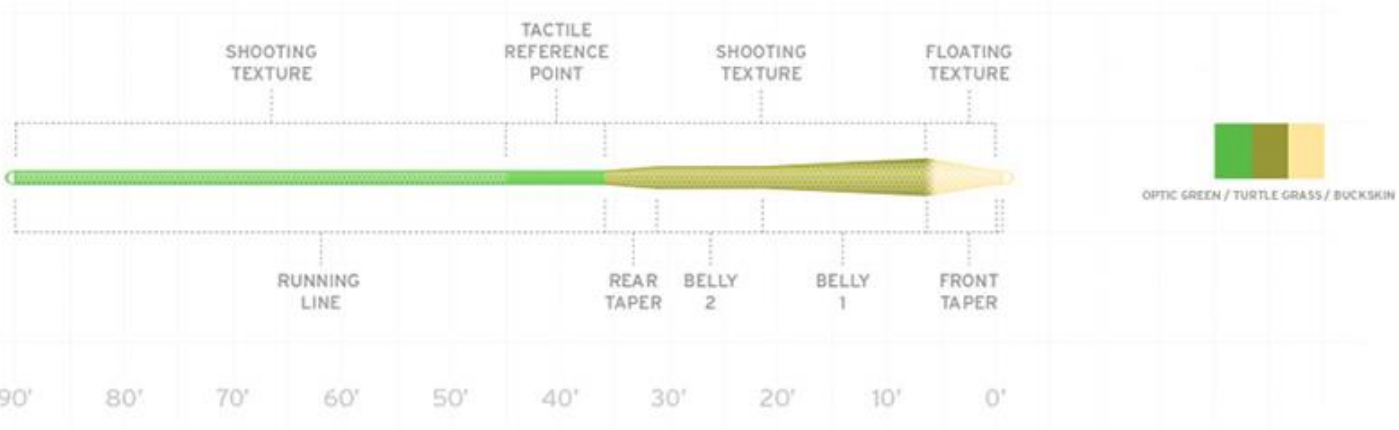
Like the MPX, the Amplitude is a multi-colored line with the head a different color than the running line but it comes with three colors rather than two. This makes it easier to judge exactly how much belly you have out in the air while false casting, a big help when you need to double haul and cast long. The Amplitude lines we used in our Shootout had a light green shooting line, an olive head with the last six feet a buckskin color. The final six feet are designed for the ultimate in floatation.

On some of the softer rods in the Shootout, we also tried the SA Trout Taper, a standard sized line. But in the final analysis most rods did perform better with the MPX, which is a half size larger than the Trout Taper. We note the correct line size in the write-ups with each rod.

In casting and fishing, it is important for the line to shoot well in order to achieve maximum performance. As you are fishing, if the line isn't shooting as well as you would like, take the time to clean and dress you line with a good silicone line dressing like Scientific Anglers, Agent X, or Russ Peak's. Tournament casters have used Russ Peak's line dressing for years. Our suggestion is to even dress this new Amplitude line after a week or so of fishing to maintain the best performance.

Leaders

Leaders are extremely important, particularly ones that will turn over well at short distances with so little fly line in the air, especially at 25 feet. As in our past 5-weight Shootouts we are again using our own Yellowstone Angler hand tied Clear Butt leaders in 12-foot 4x. These simply turn over better and more accurately than any of the knotless leaders on the market.



Just about any rod will turn over a 9-foot leader easily. But having to turn over a 12-foot leader forces the rods to perform at a higher level, and mirrors the leaders we actually fish with most of the time in critical situations.

On my own 5-weight rods, I normally use a 12-14 foot leader unless I'm fishing much more wind-resistant flies like a hopper, and then I'll cut the leader down to 9 feet or less and end up with a 3X-4X tippet. When I'm nymph fishing I often switch to one of our Hot Butt Leaders that has five feet of fluorescent red Amnesia for the butt section followed with the same clear Maxima we used on our Clear Butt leaders.

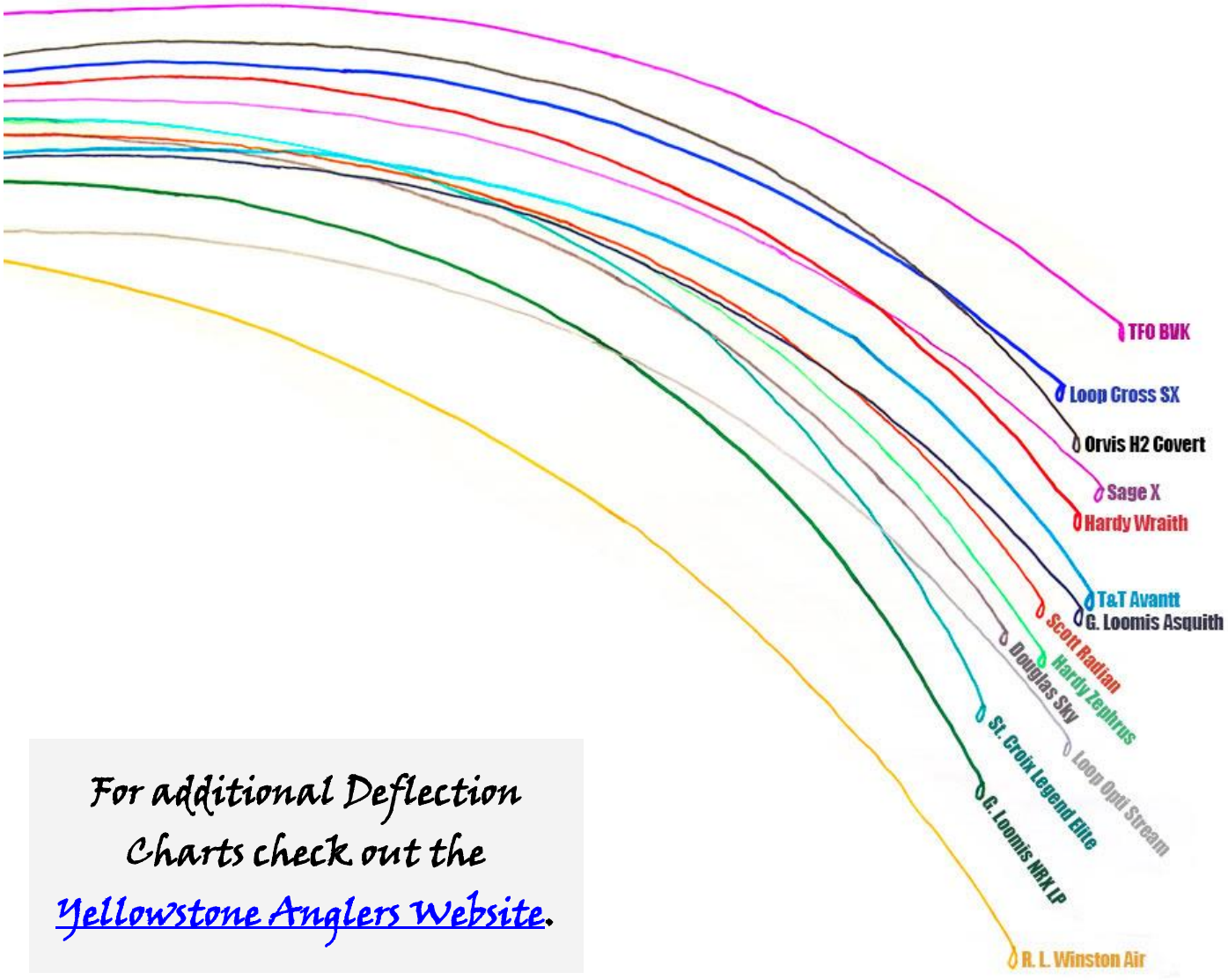
To make it easy to judge the turnover and fly placement we tie on a small fluorescent yarn indicator at the end of the leader that approximates casting a medium size dry fly.

Deflection Charts

Our deflection charts have been so popular in the past that we decided to give you more this year. This makes it easy to compare how these rods bend compared to one another. It is especially interesting to see how the rods compare in stiffness and how they bend in the tip section. You can easily see which rods have a faster action (the tip bends more) and the more moderate actions (the tips bend much less).

In making the deflection charts, we placed the rods at approximately a 45-degree angle and then hang a lead weight of 3.9 oz. (this seems just right for 5-weight rods) from the tiptop. Then we trace the outline of each rod in different colored sharpies.

Keep in mind that *fast* action rods are not necessarily *stiff* rods. The tips on the faster action rods bend



For additional Deflection Charts check out the [Yellowstone Anglers Website](#).

more, and if examine the top rod's deflection, you will see that they tend to be either medium fast or fast action rods. We have found that this soft tip action is the key to getting good accuracy in close. On the other hand the best rods must have enough butt and mid-section power to throw longer distances with ease.

Explanation of Points Categories

If you've read our Shootouts before, you may wish to skip this part and go right to the final results and write-ups on the rods in their finishing order. For first time readers of what follows, here is a guide to the categories listed in our charts, and an explanation of the methodology for how we scored each category. Some categories, like price, overall rod weight and swing weight are objective, while most others are subjective and represent our own opinions.

Price in US $ - 10 Points Available

This is simple – the least expensive rods get the highest points. The Echo Base at $89.99 gets the perfect score of 10. The most expensive rod, the $1000 Asquith got the lowest score of 4.9. The rest of the rods were placed in logical order. Most of the expensive rods, in the $825-$895 range were given 5's. Rods from $695 to $795 were scored 6's and the mid-priced rods from $350 to $475 received 8's. Rods in the $180-$300 range were in the 9's.

Overall Weight – 10 Points Available

As in the past we are using our reliable digital postage scale, and round off to .01 of an ounce. This year we are using a new Brecknell scale, which achieves identical weights to our old scale. You can compare weights of rods appearing in our past Shootouts and they will be very close to what we list in this Shootout.

We don't take the manufacturer's word for stated weight. Lighter is better here, but overall weight is not nearly as important as swing weight. In the past we've seen manufacturers cut overall weight by reducing the weight of the butt section only. This actually hurts the rod's swing weight.

Swing Weight – 20 Points Available

You know about swing weight, if you play golf. It is the relationship of the club head to the shaft when you wiggle the club. Rods with a light swing weight are pleasant and effortless to cast. Rods with a heavy swing weight feel tip heavy or "clubby" in your hand and will wear you out casting them all day.

Made in the USA?

We didn't award any points for rods made here in the United States, although perhaps we should have. In the chart below you'll see which rods are made in the USA and which ones aren't. The G. Loomis Asquith blanks are rolled in Japan but the rest of the rod is "built" here in the US. Likewise the Livingston Rod Company rods are built here in the US, but the blanks are rolled and baked in New Zealand.

How We Measure Swing Weight

Swing weight refers to the weight you feel out ahead of your hand when the rod is held in a horizontal position. Measuring swing weight is easy to do yourself with a little practice. First, use a good digital postage scale (we now use a Brecknell scale, with a max of 11 lbs in .1 oz. increments). Zero out the scale. Then place a foam-packing pellet that will act as the fulcrum, on the center of the scale. The reel seat rings and band should be placed at the bottom of the reel seat. Position the grip of the rod precisely on the pellet while the rod is held in a horizontal position with fingernail pressure. Position the grip over the foam pellet so that the pellet is about half way up the grip – but more importantly over the center of the swell, where your hand will rest when you grip the rod. For most rods this is close to the center of the grip, and at the center of the swell. With the Scott Radian, the swell was slightly farther up the grip.

Use pressure from your index finger to hold down the butt cap of the rod and keep it horizontal. Then when you have the rod parallel to the floor, read the pressure of the weight in oz. and you have the swing weight.

We repeat this for each rod a half dozen times, zeroing out the scale each time. We take the average of these measurements and this becomes the swing weight. We have found that to obtain accurate measurements, all this must be done the same day, at the same temperature, and within a period of two hours or less.

Yes, for all you engineers out there, this may not seem precisely accurate, but as a practical way to measure swing weight it works fine. The most important thing here is not the actual figures, but how the rods compare with each other.

Swing weight is such an important category; we now

give it 20 points and consider it a performance category.

Warranties: 10 Points Available

Every manufacturer now has some kind of "Lifetime Warranty". Lifespans may be increasing, but Orvis' is now merely 25 years. Nearly all are charging a "handling" fee of $35-$100 to repair or replace your rod. But then it is also going to cost you $15 or more to ship the rod in for repair or have your dealer do it. We looked at all the warranty policies in detail and updated those that have changed.

To my way of thinking, the most important thing when you break a rod is getting it back quickly, not so much the price you'll have to pay. In this regard, G. Loomis continues to utilize their popular Expeditor policy. For most Loomis rods other than the Asquith, Loomis will charge your credit card $100 but you get a brand new rod back in 3-4 days. I'd gladly pay another $50 to get this kind of service. Since the Asquith blanks are much more expensive to produce, the Expeditor service for the Asquith rods is $250. So Loomis gets the perfect score of 10 but the Asquith was only 7.5. Most of the other rods where repair charges were $25-$100 got 9's.

Most of these rod manufactures repair your rod, and don't give you a brand new replacement. Some companies like Winston are going to charge you as much as $150 to repair the rod if you are not the original owner. We gave Sage and R.L. Winston 8's because of the length of time it took for most repairs, based on our shop's experience, especially during the busy summer months. Often it took a month and a half to get a rod back from repair. To us this is unacceptable. If you live in Montana or happen to be fishing near Dillon, at least Winston offers a "lender" program. Be sure to look at our section that explains the various warranties in detail.

Craftsmanship – 10 Points Available

One thing that impressed us again this year was how good the craftsmanship has become over the past several years. Most everyone was awarded 9's or 8's in this category. Again this year there were no 7's. Even the inexpensive rods have surprisingly good cork, guides and wraps. We didn't give out many 10's and downgraded some otherwise excellent rods slightly for sloppy epoxy coatings on the guide wraps. In terms of beautiful coatings over guide wraps, Thomas and Thomas and Tom Morgan Rodsmiths are in a class by themselves. Their wraps and coatings are simply perfect. Most companies are now using one-coat finishes, and these are difficult to apply without getting an excess of epoxy on the wraps. Multiple coats are much more time consuming but look far better.

Fun to Fish/Got to Have – 10 Points Available

If the rod looks like a million bucks and casts like it too, any normal fly-fishermen will lust after it. For many, more expensive rods are a status symbol. Others observe how a rod performs in their guide's hands, and think that it is going to make them great anglers or at least take them to the next level. Surprisingly enough, they are often right. Great rods don't make great casters, but they can sure help an average caster get a lot better in a hurry. Don't let price slow you down. You'll find a way to sneak it into your stash without your significant other finding out.

Performance at 25 feet – 20 Points Available

A rod's ability to make delicate and accurate presentations with small flies and long leaders is the key to scoring well here. Casting accuracy is one of the biggest factors we use in rating these rods, and at short distances accuracy is critical. A big part of the score at short distances is a combination of accuracy and the feel you get through the handle that imparts the confidence to put the fly exactly where you want it. The key to catching more trout and especially larger trout, is

casting accuracy. Fly selection is far less important.

Does the tip of the rod load well enough in close, to give you the feel and accuracy you need with little line and only the leader out of the guides? At short range I like to cast off the tip of the rod, using mostly my wrist and very little arm movement to power the tip of the rod through the stroke. The best rods in this category are almost always the lightest in swing weight, especially if you are doing a lot of false casting when fishing dry flies.

Performance at 45 feet – 20 Points Available

Here is the most important of all the distance casting categories for picking the best all around 5-weight rod. At 45 feet you want a rod that will be light and pleasant enough to do a lot of false casting, fishing smaller dry flies all day long, yet have the power to launch more wind resistant hoppers and big attractor dries into a 20 mph wind and turn your leader over. You shouldn't have to double-haul at 45 feet to get the rod to perform. The best rods will throw very tight loops at this range with consistent accuracy, and will feel totally solid with perfect line tracking. With these rods, a good caster can place a dry fly within a foot of the target on most casts.

The best 5-weight rods need to have excellent loop control and the ability to throw very tight loops to get the best accuracy and presentations. But they should also be able to form the more open loops you'll want fishing nymphs. Again, we've found the rods that seem to do this best are nearly always faster action rods.

Performance at 70 Feet – 10 Points Available

This year we reduced the points available at 70 feet, for 5-weight rods to 10 points. We all felt that most anglers fishing a 5-weight rod today are going to be using it in that 20-50 foot range 90% of the time. Our scoring now puts more emphasis on short to medium distance accuracy rather than long distance.

We don't normally ask a 5-weight to cast seventy feet and beyond, but the best rods, with an expert caster at the controls, can easily cast all the line – ninety to one hundred feet. But this also requires an angler to double-haul well and form good, long, tight back cast loops.

There are not many instances that call for this kind of long range casting, with a 5-weight rod. Firing hoppers to a big fish rising along a far bank would be one good example. At 70 feet, a good caster with one of the best 5-weights should be able to put the fly within 3 feet of the target most of the time. The best rods will load well and produce consistently tight loops at long range. If they can do that, the accuracy is almost always excellent.

On big rivers, fishing nymphs at long range using an indicator, might be tempting with a 5-weight, but most of us would then shift to a 6-weight or even a 7-weight rod. Still, the best 5-weight rods have enough power in the butt and mid-section to get the job done.

Another reason you'll appreciate performance at long range is chucking steamers. Sure, a 6, 7, or 8-weight rod would be better, but a good 5-weight works surprisingly well as long as you limit your streamers to smaller sizes. Either stick a BB size split shot right on the head of your streamer and fish it with your floating line, or better yet switch off to a WF-6-F/S 15 foot type 6 sink tip line. Now you'll be able to launch a medium sized streamer seventy-five feet with ease. The rods in this Shootout that gave me the best long distance performance were the Hardy Wraith, the T & T Avantt, and the Loomis Asquith with the Scott Radian not far behind.

"Perfect 5-weight Performance" – 20 Points Available

We felt that this category was needed to reward the best 5-weight rods for their superior performance and that special feel that gives you total confidence in putting your fly just where you want it at any distance.

The best 5-weight rods make superb rods for nymph fishing, both at short and long range. But to do this, the rod needs to have enough butt and mid-section power to drive a couple of nymphs, maybe a split shot or two, and also a big, wind resistant indicator, and then put the cast where you need it at 25-50 feet. Picking one of the lightest rods with a low swing weight will give you more sensitivity and the rod's faster reaction time will help you set the hook more quickly. A good strong butt and mid-section will help you mend line, especially if you are fishing at longer distances like 35-50 feet, using an indicator. Faster action rods with good butt and mid-section power will also help you play larger fish more quickly, allowing you to release them in perfect shape.

We're looking here for rods that can do it all, and do it well, at any distance, with a 5-weight line.

That lowers the score for rods that are only good at

short to medium distances or others that are only good at medium to long range. We also downgraded rods we felt are just too stiff to be called all around 5-weight rods.

Warranties Explained; Manufacturer by Manufacturer
Here is a short recap of each manufacturer's policy and what we have experienced for repair time required.

Beulah - Original owner lifetime warranty for defects. Must be registered within 30 days. Breakage from misuse or negligence will be repaired at reasonable cost. $50 handling fee. Usually takes 2 weeks.

Douglas – Lifetime warranty. $35 handling fee. Rods are repaired, not replaced. Usually takes one to two weeks.

Edge – No-faultlifetime warranty for the original registered owner. Does not cover accidental breakage or normal wear and tear. Repairs to be quoted and usual time 2-3 weeks.

Echo - Lifetime warranty for original owner. $35 handling fee. Rods are replaced. Usual time 2-4 weeks

Fenwick- Lifetime warranty. $35 handling fee. Rods are replaced. Usual time 2-4 weeks.

Hardy - Lifetime warranty to original owner. $35 handling fee. Rods are repaired. Shipping is from their US warehouse, usually about 10 -14 days.

G. Loomis - Lifetime warranty to original owner. You send in rod and their warranty dept. examines it. If rod is broken because of a defect, or while fishing, replacement is free. No handling fee. If from neglect or any other cause, you must use the Expeditor service, which charges your credit card $100 but you get a brand new rod in 3-4 days. The Expeditor service for the Asquith rods is $250.00. AK or HI shipping add another $25.

Livingston Rod Company – to replace any of the top 3 sections charges are $75 per section. Butts are $125. Any other work will be quoted. Usually takes 3 weeks.

Loop - Lifetime warranty to original owner. $60 handling fee. Rods are repaired. Same day or next day shipping if they have the parts in stock, if not, usually takes 2 weeks.

Mystic - Lifetime warranty to original owner. $50 handing fee. Rods are replaced. Usually takes 1-2 weeks.

Orvis - 25 year warranty to original owner. $30 handling fee. Rod is repaired, not replaced. Usually takes 2-4 weeks.

R.L. Winston – Lifetime warranty to original owner, $50 handling fee. Older rods not under warranty cost $120 or more. Rods are repaired, not replaced. Usually takes 4-6 weeks. Winston does offer a "lender" program while your rod is being repaired but this is still somewhat of a hassle.

Sage – Lifetime warranty to original owner. $60 handling fee. Rods are repaired, not replaced. Usually takes 4-6.

Scott – Lifetime warranty to original owner, $50 handling fee. Rods are repaired, not replaced. Usually takes 2-4 weeks.

St. Croix – Lifetime warranty to original owner, $60 handling fee. Rods are repaired, not replaced. Usually takes 2-4 weeks.

Temple Fork Outfitters (TFO) - Lifetime warranty to original owner. $35 handling fee. Rods are either replaced with a new rod or the broken section is replaced. Usually takes 1-2 weeks.

Thomas and Thomas - $55 repair charges for the original owner, includes shipping. Non-original owner $150 per section. You must register the new rod within 30 days.

Results

And the winner is…

#1 G. Loomis NRX LP 9' 5-Weight - $755

It's hard to believe, but the NRX LP steamrolled the competition once again to win our 2017 5-Weight Shootout. This is the **fourth consecutive** Shootout that this rod has won!

With all the great new 5-weight rods on hand, we were

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904-535-6323
www.saltwaterflytyers.com

convinced that at least one would dislodge the LP from the throne but it wasn't to be. There are several rods that cast as well if not better at long range, but **nothing** beats this rod at the short to medium distances, that we fish most of the time. The NRX LP scored perfect 20's at both 25 and 45 feet. At 45 feet the only rod that performed as well for me was the Scott Radian, with the Hardy Zephrus, the Sage X, the Loomis Asquith, the Douglas Sky and the new T&T Avantt all close on Loomis' and Scott's heels.

When I put this rod in my hand it gives me the confidence that I can put the fly just where I want it, and do it time after time. It conveys the sense that I have the ability to steer the cast throughout the stroke. This is a nice light rod in swing weight and it has a progressively softer tip than most of the other rods in our Shootout, and this gives an angler the utmost in feel as well as accuracy. An added bonus is the price, which is $100 under most of the other high-end rods.

This is definitely one of Steve Rajeff's best efforts as a rod designer. Not only is this a marvelous rod for fishing dry flies, but it's also a wonderful rod for fishing nymphs. It has enough backbone in the butt and mid – sections to chuck a double nymph rig along with some split shot, and enough power on tap to cast small to medium sized streamers. If you need to reach out, you'll find some explosive power on tap. But to utilize this power your cast timing and stroke need to be precise.

The LP has been my go-to 5-weight rod ever since it hit the market. I love to fish dry flies with light tippets, and this is a rod that can handle 6X and even 7X without breaking many fish off when you set the hook a little too hard.

The NRX LP rods are now only available in a dark green color, which has been my preference all along for G. Loomis' freshwater rods. I absolutely love the dark colored single foot nickel/titanium guides. They will flex but never break. The wire recoil stripping guides are not my favorites but they do seem to work well and you'll never break one.

The Perfect line: S.A. Amplitude MPX in WF-5

Performance at 25 feet: 20 points out of 20
Absolutely the best feel of any of the 5-weights, combined with terrific accuracy. It cast off the tip extremely easily, and was nice and light in my hand.

Performance at 45 feet: 20 points out of 20
Nothing beat the feel or accuracy of this rod at mid-distance. Forming tight loops that provide the ultimate in accuracy was so easy. As good as it gets.

Performance at 70 feet: 9.2 points out of 10
Still good but at long range, the stiffer rods like the Avantt, the Asquith and the Radian have the edge.

Editors Note:

The 2017 5-Weight Shootout originally appeared on the Yellowstone Anglers website. To read the article in its entirety, which includes detailed reviews and comments for each of the rods featured in the shootout, please go to there website:

https://www.yellowstoneangler.com/gear-review/2017-5-weight-shootout-fly-rod-review-best-5-weight-rod-best-fishing-pole-best-fly-rod-g-loomis-nrx-lp-scott-radian-g-loomis-asquith-t-t-avantt-thomas-and-thomas-avant-edge-by-gary-loomis-orvis-h2-covert-winston-air-sage-x

Capt. Lawrence Piper
And
The Angler's Mark

(904) 557-1027

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www.theanglersmark.com

Final Results	Best in Test		Number of Pieces	Price $	Overall Weight	Warranty	Craftsmanship	Fun to Fish "got to have"	Swing Weight	Performance at 25 feet	Performance at 45 feet	Performance at 70 feet	Perfect 5 Performance	Grand Total
Rank	Maximum points available in category		0	10	10	10	10	10	20	20	20	10	20	140
1	G. Loomis NRX LP 9'#5	$755	4	6.5	9.2	10	9	10	19.3	20	20	9.2	20	133.2
2	Scott Radian 9'#5	$795	4	6.2	9.4	9	10	9.5	18.8	19.5	20	9.5	19.5	131.4
3	Hardy Zephrus FWS 9'#5	$699	4	6.9	9.2	9	9	9.5	19	19.6	19.7	9.2	19.5	130.6
4	Thomas & Thomas Avantt 9'#5	$825	4	5.9	9.2	8.5	10	9.7	19.2	19.1	19.5	9.8	19.5	130.4
5	Loop Opti Stream 9'#5	$429	4	8.7	8.8	9	9	9	19.7	19	19.4	8.9	19.2	130.2
6	Douglas Sky 9'#5	$695	4	6.9	9.4	9	9	9.2	19.3	19	19.5	9.3	19.5	130.1
7	Orvis Helios 2 Covert Tip Flex 9'#5	$850	4	5.7	10	9	9	9.5	19.5	19.1	19.2	8.9	19	128.9
8	G. Loomis Asquith 9'#5	$1000	4	4.9	9.4	7.5	10	9.5	20	19.2	19.6	9.6	19.5	128.7
9	Orvis Recon 9'#5	$425	4	8.3	9.6	9	9	9	18.5	18.6	19.3	8.9	18	128.2
10	Douglas DXF 9'#5	$349	4	8.7	9.4	9	9	8.5	18.7	19.1	19.4	8.5	18	127.8
11	Hardy Wraith FWS 9'#5	$849	4	5.7	9.4	9	9	9.5	18.5	18.2	19.2	10	19	127.5
12	Sage X 9'#5	$895	4	5.5	9.4	8.5	9	9	17.5	19	19.7	9.3	19.1	125.9
13	St. Croix Legend Elite 9'#5	$460	4	8.3	9.2	9	9	8.5	17.2	19	19.1	8.5	18	125.8
14	Fenwick Aetos 9'#5	$189.95	4	9.5	8.4	9	8	8	18.8	18.8	18.5	8.4	18	125.4
15	Beulah Guide Series II 9'#5	$295	4	9	8.8	9	9	8	17.5	18.8	19.2	8.5	18	125.3
16	Livingston Rod Co. YS Fast 9'#5	$745	4	6.5	9.4	8	10	9	17.8	19	19	8.4	18	125.1
17	Beulah Platinum 9'#5	$425	4	8.3	8	9	9	8.5	18.3	18.9	18.9	8	18	124.9
18	Loop Cross SH 9'#5	$759	4	6.5	8.2	9	9	8	18	18.5	19.4	9.4	18.5	124.5
19	Edge Alpha 9'#5	$855	4	5.7	9.2	9	9	8.5	17.5	18.9	19.3	8.5	18	123.6
20	Mystic Reaper 9'#5	$279	4	9.2	9	9	8	7	17.8	18.5	18.5	8.5	18	123.5
21	Scott Flex 9'#5	$475	4	8	9.2	9	9	8	16.8	18.5	19.1	8.6	17	123.2
22	R.L. Winston BIIIx 9'#5	$845	4	5.7	8.4	8.5	10	8.5	17.8	18.8	18.6	8.5	18	122.8
23	Echo Base 9'#5	$89.99	4	10	8.2	9	8	7	16.3	18	18.5	8.5	17	120.5
24	R. L. Winston Air 9'#5	$945	4	5.3	8	8.5	10	8.5	17.2	18.4	18.5	8	17	119.4
24	Sage Pulse 9'#5	$450	4	8.2	9.2	8.5	9	7	17.2	17.5	18.4	7.9	17	119.4
26	TFO BVK 9'#5	$259.95	4	9.3	8.8	9.5	8	6	15	17.1	18.2	9.2	16	117.1

First Coast Fly Fishers
2017 Outings

Meeting Date	Location/Species
January 13 - 15, 2017	**St Johns River, Osteen, FL** *Shad*
February 1, 2017	**St Johns River - C.S. Lee Ramp** *Shad*
March 2017*	**Night Fishing, Clapboard Creek - Jacksonville, FL** *Seatrout, Redfish*
April 2017*	**Camping and Fishing Tomoka State Park - Ormond Beach** *Redfish, Seatrout, Snook, Flounder*
May 2017*	**Matanzas Inlet** *Redfish, Seatrout, Flounder, Snook*
June 2017*	**St Johns River - Green Cove Springs** *Largemouth Bass and Bream*
July 2017*	**Indian River - Stuart, FL** *Snook, Tarpon*
August 2017*	**Little Talbot State Park - Jacksonville, FL** *Redfish in the Surf*
September 2017*	**Flood Tide Cedar Point - Jacksonville, FL** *Redfish, Sheepshead*
October 2017*	**Flood Tide Palm Valley - Ponte Vedra** *Redfish, Sheepshead*
November 2017*	**Clapboard and Simpsons Creeks - Jacksonville, FL** *Redfish, Flounder*
December 2017*	**Guana River - South Ponte Vedra** *Redfish, Seatrout*

** Exact dates to be based on weather and tides*

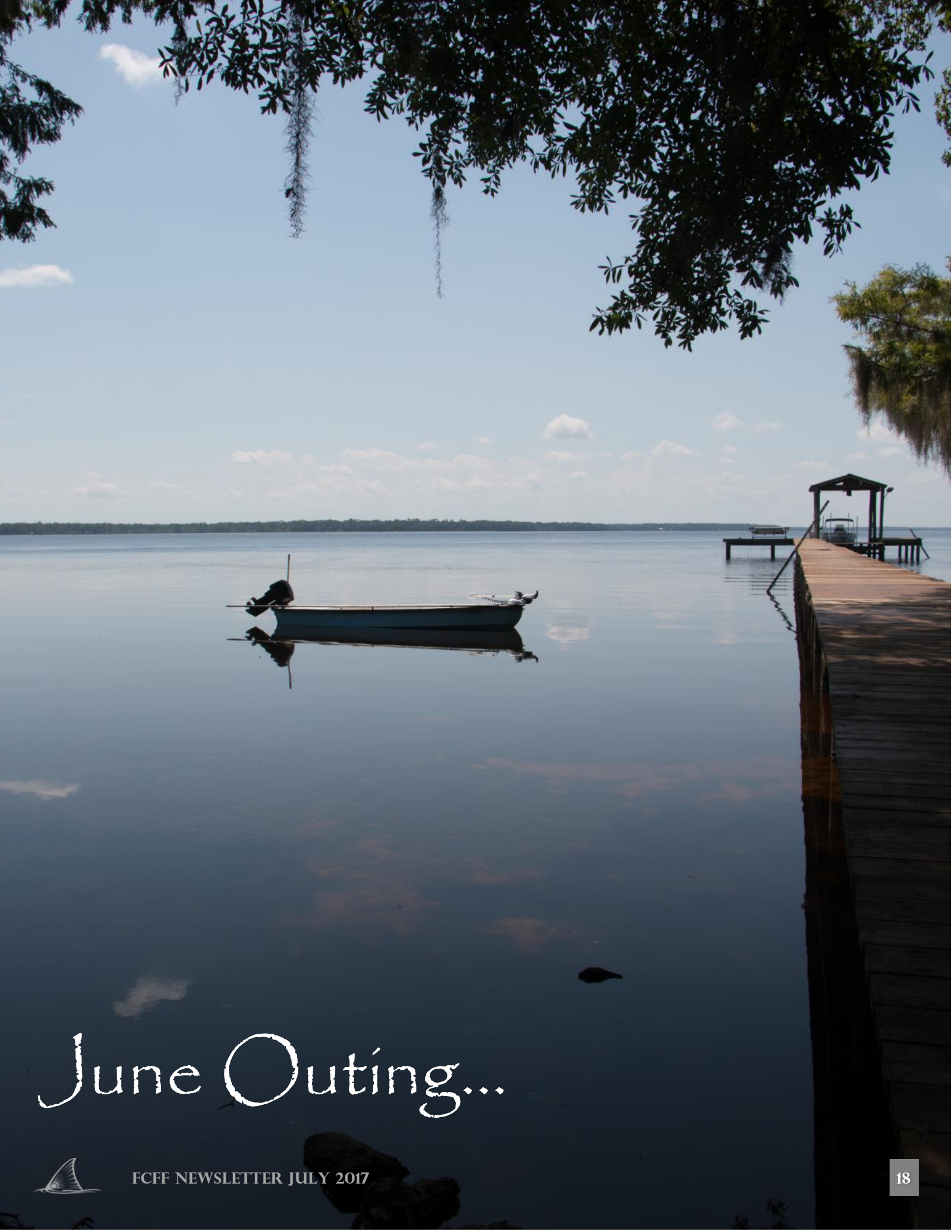
First Coast Fly Fishers
2017/2018 Programs

Meeting Date	Program/Speaker
March 6, 2017	**Tarpon Fishing, Baja Honda Tarpon Lodge** ✓ *Trevor Luce*
April 3, 2017	**Offshore Kayak Fishing** ✓ *Pam Wirth*
May 1, 2017	**Sport Fishing Statistics** ✓ *Rob Southwick, Southwick Associates, Inc.*
June 5, 2017	**Surf Fishing Little Talbot** ✓ *Capt. John Bottko*
July 10, 2017	**Our Oceans are Changing** *Cameron Jaggard, Pew Charitable Trust*
August 7, 2017	**FCFF Swap Meet (Food and Drinks Provided)** *FCFF Members*
September 11, 2017	**Fly Tying** *Staff from 239Flies.com*
October 2, 2017	**Fishing Photography with DSLR and Drones** *Robwil Valerdy*
November 6, 2017	**Fisheries Conservation** *Nick Pectol, Costal Conservation Assoc.*
December 4, 2017	**Secret Santa and Pot Luck Dinner** *Santa and FCFF Members*
January 8, 2018	**Fishing in the Digital Age** *Tom Swick, Fishbrain*
February 5, 2017	**Fishing the Upper Keys** *Capt. Honson Laui*

**Speakers and programs are subject to change*

"The angling fever is a very real disease and can only be cured by the application of cold water and fresh, untainted air."

-Theodore Gordon
Writer, Fly Fisheman

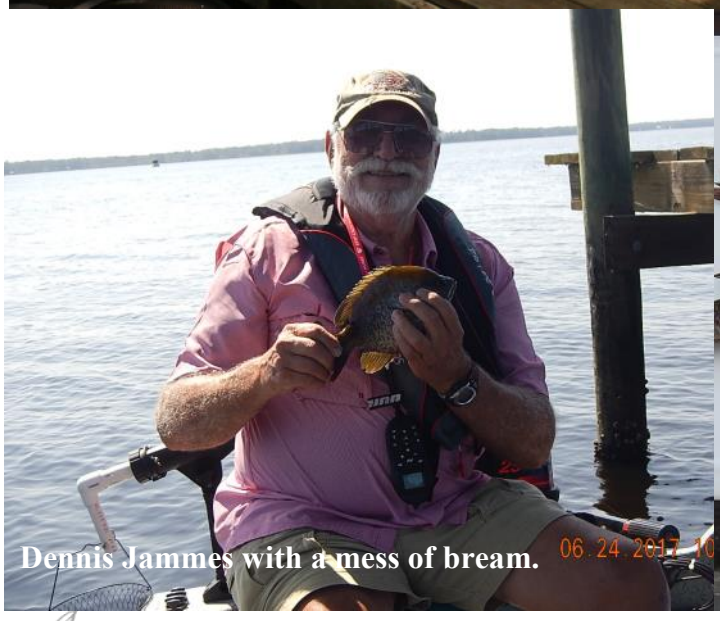


June Outing...

Last month, Tom White, Gavin Glover's grandfather, graciously invited the Club to his house in Green Cove Springs for an outing on the St. Johns River. The day turned out to be a hot one, but that didn't deter several adventurous anglers from hitting the water early in the morning. Afterward, members and their guests were treated to a fantastic lunch which included ribs from three of the best pit masters to hold a fly rod. The days activities culminated in hand feeding Gavin's pet largemouth bass, which he keeps in a neighbors pond.

The Club would like to extend its deepest gratitude and tanks to Gavin and his family for their hospitality and for opening their home to us. We would like to thank all the members and guests to joined us and brought a side dish. **Thank you very much!**

Ribs for your pleasure...



Dennis Jammes with a mess of bream.

Mike Harrigan hand-feeding Gavin's pet bass.

Setting the Record Straight

July 12th marks the bicentennial of Henry David Thoreau's birth. The American essayist, poet and philosopher is best know for his beliefs in Transcendentalism and civil disobedience. On July 4, 1845, he moved into a small house he had build on the shores of Walden Pond. For the next two years, two months and two days he dedicated his life to living deliberately. His experiences in the wilderness would culminate in his master work *Walden*. A century and a half later, author John Updike would call *Walden* "a totem of the back-to-nature, preservationist, anti-business, civil-disobedience mindset, and Thoreau so vivid a protester, so perfect a crank and hermit saint, that the book risks being as revered and unread as the Bible."

When it comes to fishing, Thoreau is often remembered by the classic quote, ***"Many men go fishing their entire lives without knowing it is not fish they are after."*** It is difficult to recall a more transcendental quote about fishing. As eloquent and thought provoking as this quote may be, Thoreau never wrote those words.

The closest Thoreau came to that sentiment was a journal entry from January 26, 1853:

> *It is remarkable that many men will go with eagerness to Walden Pond in the winter to fish for pickerel and yet not seem to care for the landscape. Of course it cannot be merely for the pickerel they may catch; there is some adventure in it; but any love of nature which they may feel is certainly very slight and indefinite. They call it going a-fishing, and so indeed it is, though perchance, their natures know better. Now I go a-fishing and a-hunting every day, but omit the fish and the game, which are the least important part. I have learned to do without them. They were indispensable only as long as I was a boy. I am encouraged when I see a dozen villagers drawn to Walden Pond to spend a day in fishing through the ice, and suspect that I have more fellows than I knew, but I am disappointed and surprised to find that they lay so much stress on the fish which they catch or fail to catch, and on nothing else, as if there were nothing else to be caught.*

According to the Thoreau Institute, there are two possible sorces of the misquote. In his the 1995 book, *A River Seen Right,* Michael Baughman clearly paraphrases Thoreau writing, "I think it was in *Walden* where he wrote that a lot of men fish all their lives without ever realizing that fish isn't really what they're after." Forty years earlier, E.T. Brown wrote in his book, Not without Prejudice: Essays on Assorted subjects, "When they go fishing, it is not really fish they are after. It is a philosophic meditation."

Regardless of the source, you now know better.

Happy Birthday Mr. Thoreau.

This Month's Outing....

Stuart, Florida

This month the Club is on the road to Stuart Florida for the weekend of July 21 and 22. We will staying at the River Palms Cottages located at 2325 NE Indian River Drive in Jensen Beach. If you want to go and haven't reserved a room for the trip you need to call now (772) 334-0401. We will be using the River Palms as our base camp while we fish the Stuart area docks at night for snook and tarpon.

Boats

You will need a boat or will need to fish with someone who has a boat for this outing. It is possible to fish the outing with canoes, kayaks or paddle boards. No matter what kind of watercraft you take to the outing, be sure to have a set of working lights. Most of the fishing will take place at night. You need to be able to see and be seen.

Flies and Equipment

Seven, eight and nine weight rods with floating lines will be ideal for this outing. You will want the backbone of a larger rod to pull the snook away from the docks and mangroves. Shrimp and baitfish patterns will work best. If you have multiple rods at your disposal, plan to bring at least two rods. This will be combat fishing at its finest. You will want a backup just in case a 20 pound snook decides to test the warranty or your rod.

Tying Night

Gavin will be hosting a tying night at 210 Self Storage (10030 EW Pappy Road, St Johns, FL). He will be tying several patterns that will be ideal for this outing. The date for the tying night has yet to be determined. Keep an eye out for an email detaining the specific regarding the tying night.

Safety

You will be night fishing. So bring headlamps, flashlights and plenty of spare batteries. Make sure the lights are working property on you boat and trailer. The last thing you want to do is spend the day rewiring your boat.

More Information

More information about the outing will be made available later this month via email. If you have questions about the email, or want to secure a ride in a boat with another member, contact Outings Chairman Mike Harrigan at FCFFOutings@gmail.com.

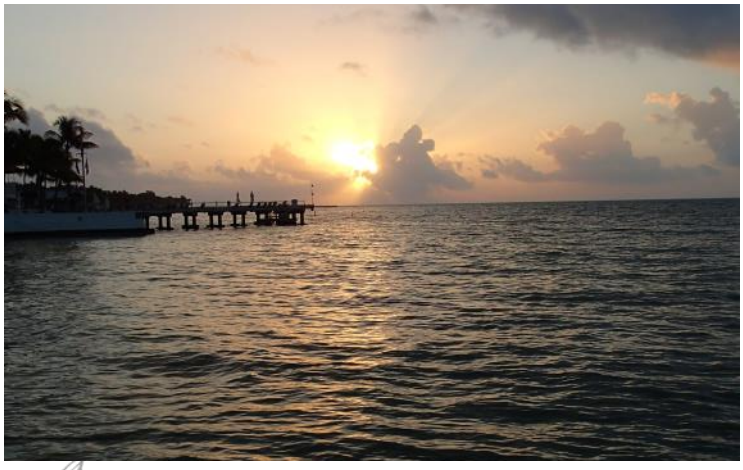
Swap Meet

Time to clear out your closet or garage of all that unused or unwanted fishing gear. Next month, the Club will he holding a swap meet during the August meeting. If you are new to the sport of fly fishing, this is an excellent opportunity to get some "gently used" fishing gear at great prices. Who needs Craigslist when you have the First Coast Fly Fishers?

Capt. John Bottko

the salty feather

(904) 757-5757 Or (904) 997-2220



BLACK CREEK OUTFITTERS

JACKSONVILLE, FLORIDA WWW.BLACKCREEKOUTFITTERS.COM

JULY 2017 TIDES JACKSONVILLE (MAYPORT BAR PILOT DOCK)

DATE	TIME		HEIGHT		DATE	TIME		HEIGHT		DATE	TIME		HEIGHT	
7/1/2017	Sat	3:16 AM	4.4	H	7/14/2017	Fri	1:01 PM	4.4	H	7/23/2017	Sun	9:15 AM	4.6	H
7/1/2017	Sat	9:23 AM	0	L	7/14/2017	Fri	6:35 PM	0.4	L	7/23/2017	Sun	2:54 PM	-1	L
7/1/2017	Sat	4:03 PM	4.5	H	7/15/2017	Sat	1:13 AM	4.7	H	7/23/2017	Sun	9:44 PM	5.6	H
7/1/2017	Sat	9:58 PM	0.4	L	7/15/2017	Sat	7:11 AM	0	L	7/24/2017	Mon	3:38 AM	-0.9	L
7/2/2017	Sun	4:11 AM	4.2	H	7/15/2017	Sat	1:49 PM	4.6	H	7/24/2017	Mon	10:10 AM	4.7	H
7/2/2017	Sun	10:12 AM	0.1	L	7/15/2017	Sat	7:35 PM	0.4	L	7/24/2017	Mon	3:47 PM	-0.9	L
7/2/2017	Sun	4:58 PM	4.6	H	7/16/2017	Sun	2:02 AM	4.6	H	7/24/2017	Mon	10:35 PM	5.5	H
7/2/2017	Sun	10:53 PM	0.5	L	7/16/2017	Sun	8:05 AM	0	L	7/25/2017	Tue	4:28 AM	-0.8	L
7/3/2017	Mon	5:05 AM	4.1	H	7/16/2017	Sun	2:43 PM	4.7	H	7/25/2017	Tue	11:03 AM	4.7	H
7/3/2017	Mon	10:59 AM	0.2	L	7/16/2017	Sun	8:41 PM	0.4	L	7/25/2017	Tue	4:39 PM	-0.7	L
7/3/2017	Mon	5:50 PM	4.7	H	7/17/2017	Mon	2:58 AM	4.5	H	7/25/2017	Tue	11:24 PM	5.3	H
7/3/2017	Mon	11:45 PM	0.5	L	7/17/2017	Mon	9:02 AM	-0.2	L	7/26/2017	Wed	5:18 AM	-0.7	L
7/4/2017	Tue	5:56 AM	4	H	7/17/2017	Mon	3:44 PM	4.8	H	7/26/2017	Wed	11:54 AM	4.7	H
7/4/2017	Tue	11:46 AM	0.2	L	7/17/2017	Mon	9:47 PM	0.3	L	7/26/2017	Wed	5:34 PM	-0.4	L
7/4/2017	Tue	6:37 PM	4.7	H	7/18/2017	Tue	4:01 AM	4.3	H	7/27/2017	Thu	12:12 AM	5.1	H
7/5/2017	Wed	12:35 AM	0.4	L	7/18/2017	Tue	10:00 AM	-0.3	L	7/27/2017	Thu	6:08 AM	-0.4	L
7/5/2017	Wed	6:43 AM	4	H	7/18/2017	Tue	4:50 PM	5	H	7/27/2017	Thu	12:45 PM	4.7	H
7/5/2017	Wed	12:30 PM	0.1	L	7/18/2017	Tue	10:52 PM	0.2	L	7/27/2017	Thu	6:31 PM	0	L
7/5/2017	Wed	7:21 PM	4.8	H	7/19/2017	Wed	5:09 AM	4.3	H	7/28/2017	Fri	12:58 AM	4.9	H
7/6/2017	Thu	1:22 AM	0.3	L	7/19/2017	Wed	11:00 AM	-0.5	L	7/28/2017	Fri	7:00 AM	-0.2	L
7/6/2017	Thu	7:28 AM	4	H	7/19/2017	Wed	5:55 PM	5.2	H	7/28/2017	Fri	1:35 PM	4.7	H
7/6/2017	Thu	1:13 PM	0.1	L	7/19/2017	Wed	11:56 PM	-0.1	L	7/28/2017	Fri	7:30 PM	0.3	L
7/6/2017	Thu	8:02 PM	4.8	H	7/20/2017	Thu	6:16 AM	4.3	H	7/29/2017	Sat	1:45 AM	4.6	H
7/7/2017	Fri	2:06 AM	0.2	L	7/20/2017	Thu	12:01 PM	-0.7	L	7/29/2017	Sat	7:51 AM	0.1	L
7/7/2017	Fri	8:11 AM	4	H	7/20/2017	Thu	6:57 PM	5.4	H	7/29/2017	Sat	2:26 PM	4.6	H
7/7/2017	Fri	1:53 PM	0	L	7/21/2017	Fri	12:57 AM	-0.3	L	7/29/2017	Sat	8:28 PM	0.5	L
7/7/2017	Fri	8:41 PM	4.8	H	7/21/2017	Fri	7:18 AM	4.4	H	7/30/2017	Sun	2:34 AM	4.4	H
7/8/2017	Sat	2:46 AM	0.1	L	7/21/2017	Fri	1:01 PM	-0.8	L	7/30/2017	Sun	8:42 AM	0.3	L
7/8/2017	Sat	8:52 AM	4	H	7/21/2017	Fri	7:55 PM	5.5	H	7/30/2017	Sun	3:19 PM	4.6	H
7/8/2017	Sat	2:30 PM	0	L	7/22/2017	Sat	1:54 AM	-0.6	L	7/30/2017	Sun	9:25 PM	0.7	L
7/8/2017	Sat	9:19 PM	4.8	H	7/22/2017	Sat	8:18 AM	4.5	H	7/31/2017	Mon	3:25 AM	4.3	H
7/9/2017	Sun	3:22 AM	0	L	7/22/2017	Sat	1:59 PM	-1	L	7/31/2017	Mon	9:31 AM	0.5	L
7/9/2017	Sun	9:33 AM	4	H	7/22/2017	Sat	8:50 PM	5.6	H	7/31/2017	Mon	4:14 PM	4.6	H
7/9/2017	Sun	3:05 PM	0	L	7/23/2017	Sun	2:47 AM	-0.8	L	7/31/2017	Mon	10:18 PM	0.8	L
7/9/2017	Sun	9:57 PM	4.8	H										
7/10/2017	Mon	3:56 AM	0	L										
7/10/2017	Mon	10:14 AM	4.1	H										
7/10/2017	Mon	3:40 PM	0	L										
7/10/2017	Mon	10:34 PM	4.8	H										
7/11/2017	Tue	4:29 AM	0	L										
7/11/2017	Tue	10:54 AM	4.1	H										
7/11/2017	Tue	4:16 PM	0	L										
7/11/2017	Tue	11:11 PM	4.8	H										
7/12/2017	Wed	5:02 AM	0.1	L										
7/12/2017	Wed	11:35 AM	4.2	H										
7/12/2017	Wed	4:56 PM	0.1	L										
7/12/2017	Wed	11:49 PM	4.8	H										
7/13/2017	Thu	5:39 AM	0.1	L										
7/13/2017	Thu	12:17 PM	4.3	H										
7/13/2017	Thu	5:42 PM	0.3	L										
7/14/2017	Fri	12:29 AM	4.7	H										
7/14/2017	Fri	6:22 AM	0.1	L										