

**MAD RIVER CANOE**

2009 Product Catalog



Cover Photo: Joshua Compton

The story of Mad River Canoe begins in a patch of ferns, oh so long ago, with friend Rabbit. Native American legend has it that Rabbit was a great hunter and a bit of a trickster, but most of all Rabbit was confident in his abilities. So confident in fact, that even as Lynx circles the fern, planning his attack, Rabbit is free to enjoy his pipe, secure in his abilities to avoid this mortal enemy.

## TRUTH & LEGEND

Within every legend, there is truth. And the truth in the legend of Rabbit is that confidence is a powerful asset when backed up by ability. The confidence you share with your Mad River Canoe will be backed up by our ability to produce the finest craft of its kind. We like to think that every Mad River Canoe is crafted from both truth and legend. For legends inspire us toward greatness, yet only through truth can we achieve it.





## INNOVATE THEN.

Our story continues on a picturesque hillside in Vermont, circa: 1971. In his backyard shed, Jim Henry, the company founder, began his mission to build a better canoe through innovative thought, design and materials. With confidence in his abilities, he designed and built the first Malacite. He then raced in – and won – the Downriver National Championship and the rest, you know. Word spread and demand grew. A tradition of innovation was born.

From the beginning, Mad River Canoe explored new designs and experimented with new materials. We were the first to introduce Kevlar™ to the canoe industry and

among the pioneers to first mold our own Royalex® canoes. We now offer a wider variety of hull designs than any other canoe manufacturer and continue to push ourselves and our designs to new levels of performance. Our efforts have been rewarded with competitions won, accolades earned (including 3 “Manufacturer of the Year” awards from Canoe & Kayak magazine) and, most importantly, a growing base of loyal customers.

After more than 35 years in this industry, we have never lost sight of our founder’s original mission to build a better canoe. Our devotion to that ideal is not

## INNOVATE NOW.

measured by a time clock or marked in a ledger. It is incorporated in every new design and evident in every innovation. We don’t innovate for glory, we innovate for results. And that you can feel with every stroke of the paddle.

The following pages introduce you the realization of our promise and our passion. We invite you to experience our heritage of fine craftsmanship combined with innovative materials and design in the 2009 line-up of truly modern classics.





# VERSATILE

∞ CANOES ∞



In much the same way that Rabbit felt confident on all manner of terrain, our Versatile Canoes will help you feel confident on both flat and white water adventures. The moderate rocker and durable material offer all around performance with minimal compromise: the best design for most water. If your paddling takes you from rivers to lakes, our Versatile Canoes are your best bet.

EXPLORER SERIES

This durable series is equally at home on the river as it is on open water. The Explorer Series tracks well and cruises on flat water and is seaworthy enough to handle chop, wind and waves with confidence.

16<sub>RX</sub>

Crafted with Royalex® for carefree use in rougher, more abusive conditions, it's as close to an "all-purpose" canoe as you'll get.



L 15' 11.25" / 486 cm  
W 35.25" / 91 cm  
Weight 72 lbs / 33 kg  
Capacity 1100 lbs / 499 kg



STANDARD FEATURES

- Shallow Vee Hull
- Moderate Rocker
- Cane Seats (Buckets on IQ)
- Shaped Ash Yoke (Not in IQ)
- IQ Cupholders (2) (IQ & IQ2 Only)

OPTIONS

- Webbed Seats
- Contoured Ash Yoke (Not in IQ)
- Additional Ash Thwart (Not in IQ)
- Slotted Ash Gunwales
- Stained Ash Gunwales
- Flotation Bag Lash System
- Flotation Bag Keeper Strap
- Skid Plates

16<sub>KX</sub>

This lighter and sleeker Kevlar Explorer counterpart offers a touch more speed, acceleration, glide and efficiency.



L 16' 3" / 495 cm  
W 34.5" / 88 cm  
Weight 54 lbs / 25 kg  
Capacity 1100 lbs / 499 kg



STANDARD FEATURES

- Shallow Vee Hull
- Moderate Rocker
- Cane Seats (Buckets on IQ)
- Shaped Ash Yoke (Not in IQ)
- IQ Cupholders (2) (IQ Only)

OPTIONS

- Webbed Seats
- Cane Bucket Seats (Not in IQ)
- Contoured Ash Yoke (Not in IQ)
- Additional Ash Thwart (Not in IQ)
- Slotted Ash Gunwales
- Stained Ash Gunwales
- Flotation Bag Lash System
- Flotation Bag Keeper Strap
- Skid Plates

15<sub>RX</sub>

All the benefits of the original in a compact design. You'll find it to be quite nimble in tighter waters and a spacious, stable solo canoe as well.



L 14' 9" / 449 cm  
W 35.75" / 91 cm  
Weight 62 lbs / 28 kg  
Capacity 850 lbs / 386 kg



STANDARD FEATURES

- Shallow Vee Hull
- Moderate Rocker
- Cane Seats (Buckets on IQ)
- Shaped Ash Yoke (Not in IQ)
- IQ Cupholders (2) (IQ & IQ2 Only)

OPTIONS

- Webbed Seats
- Contoured Ash Yoke (Not in IQ)
- Additional Ash Thwart (Not in IQ)
- Slotted Ash Gunwales
- Stained Ash Gunwales
- Flotation Bag Lash System
- Flotation Bag Keeper Strap
- Skid Plates

EXPLORER SERIES

Manufactured TripleTough™ for years of rugged, maintenance-free reliability, the Explorer TTs also offer versatility and stability for tandem paddlers or the whole family.



14<sub>TT</sub>

Well suited for confined waterways, the classic Shallow V-Hull also offers great tracking and comforting final stability.

L 14' 6" / 442 cm  
W 36" / 91 cm  
Weight 72 lbs / 33 kg  
Capacity 850 lbs / 386 kg



- STANDARD FEATURES**
- Shallow Vee Hull
  - Web Seats
  - Shaped Ash Yoke
  - IQ Cupholders (2) (IQ2 Only)



16<sub>TT</sub>

This durable, full-sized family boat offers capacity, stability and sea worthiness.

L 16' / 486 cm  
W 36" / 91 cm  
Weight 82 lbs / 38 kg  
Capacity 1100 lbs / 499 kg



- STANDARD FEATURES**
- Shallow Vee Hull
  - Web Seats
  - Shaped Ash Yoke
  - IQ Cupholders (2) (IQ2 Only)

FREEDOM SOLO / MALECITE

The Malecite is fast and efficient and accommodates both solo and tandem paddling. And the Freedom Solo is, quite simply, the most versatile solo boat on the market for mixed water conditions and uses.

FREEDOM SOLO

The perfect solo river-running boat for day trips or expeditions.



L 14' 6.75" / 444 cm  
W 30.5" / 78 cm  
Weight 55 lbs / 25 kg  
Capacity 750 lbs / 340 kg



- STANDARD FEATURES**
- Shallow Vee Hull
  - Moderate Rocker
  - Cane Seats (Bucket in IQ)
  - Thwarts (2)
  - IQ Cupholders (2) (IQ & IQ2 Only)

- OPTIONS**
- Webbed Seats
  - Cane Bucket Seats (Not in IQ)
  - Slotted Ash Gunwales
  - Stained Ash Gunwales
  - Flotation Bag Lash System
  - Flotation Bag Keeper Strap
  - Skid Plates
  - Ready-To-Go Outfitting
  - Ready-To-Go Outfitting Upgrade

MALECITE

A sleek, fast traveler with surprising sea-worthiness and stimulating efficiency.

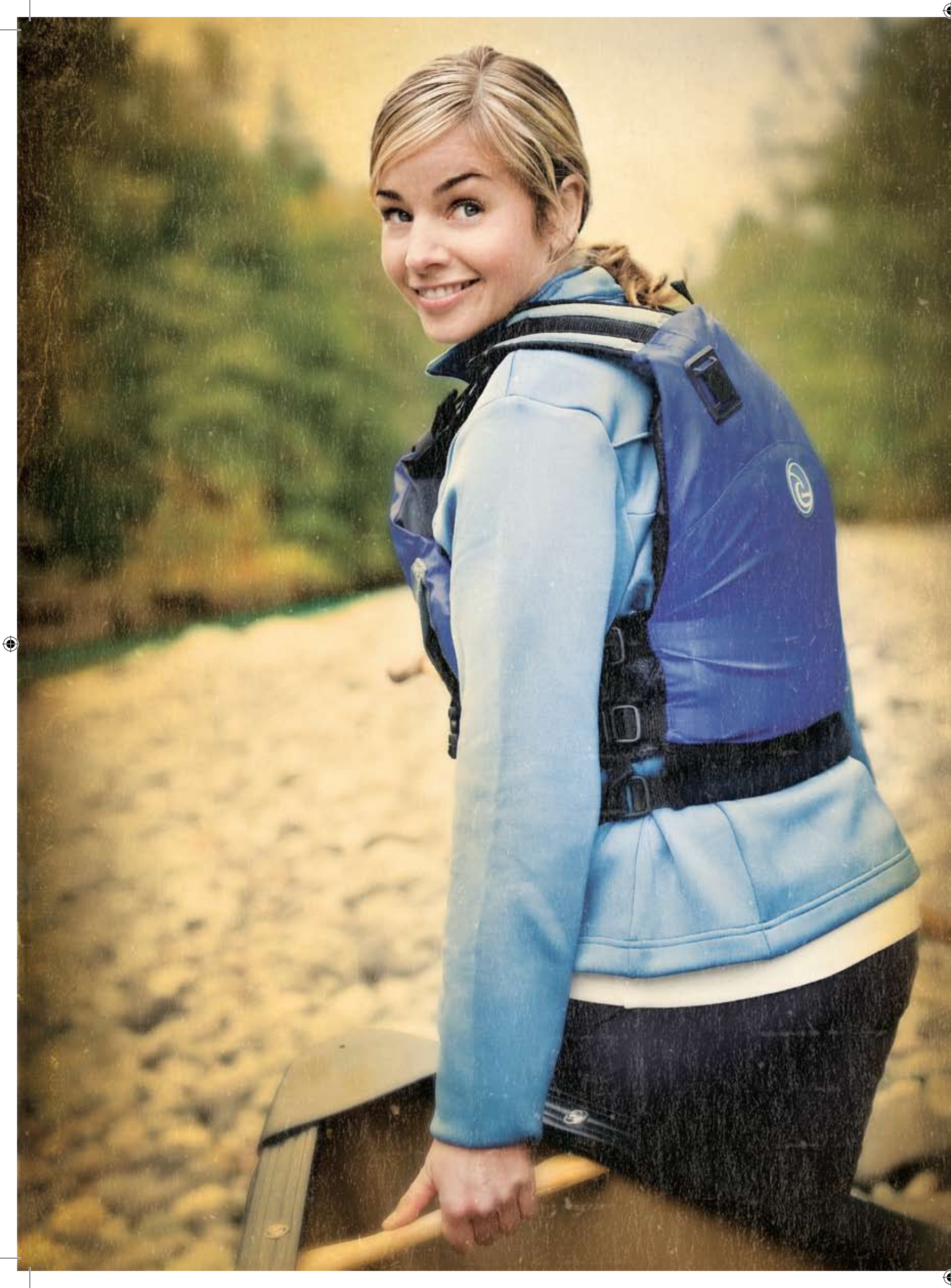


L 16' 5.25" / 501 cm  
W 34.5" / 88 cm  
Weight 51 lbs / 23 kg  
Capacity 850 lbs / 386 kg



- STANDARD FEATURES**
- Shallow Vee Hull
  - Moderate Rocker
  - Cane Seats (Bucket in IQ)
  - Shaped Ash Yoke (Not in IQ)
  - IQ Cupholders (2) (IQ Only)

- OPTIONS**
- Webbed Seats
  - Cane Bucket Seats (Not in IQ)
  - Contoured Ash Yoke (Not in IQ2)
  - Additional Ash Thwart (Not in IQ)
  - Slotted Ash Gunwales
  - Stained Ash Gunwales
  - Flotation Bag Lash System
  - Flotation Bag Keeper Strap
  - Center Seat Lash
  - Skid Plates



# RIVER

## ∞ CANOES ∞



The question is inevitable. And the answer is yes. There is, in fact, a Mad River. Its waters run through Waitsfield, Vermont, where Mad River Canoe was first founded. Our River Canoes are good, adaptable boats designed with added emphasis on performance in moving waters, favoring maneuverability over tracking.

LEGEND SERIES

The shallow arch hull and moderate rocker of these canoes allow for effortless exploration and discovery of your favorite river along with all its treasures.

15<sub>RX</sub>

Class II-III capable. Nimble and capable of negotiating rocky rivers and coastal bayous.



L 15' / 457 cm  
W 33.5" / 85 cm  
Weight 66 lbs / 30 kg  
Capacity 960 lbs / 435 kg



- STANDARD FEATURES**
- Shallow Arch Hull
  - Moderate Rocker
  - Cane Seats
  - Shaped Ash Carry Yoke
  - IQ Cupholders (2) (IQ2 Only)

- OPTIONS**
- Webbed Seats
  - Cane Bucket Seats (Not in IQ)
  - Contoured Ash Yoke (Not in IQ)
  - Additional Ash Thwart
  - Slotted Ash Gunwales
  - Stained Ash Gunwales
  - Flotation Bag Lash System
  - Flotation Bag Keeper Strap
  - Skid Plates

16<sub>RX</sub>

Ideally suited for shallow, boisterous rivers with capacity for extended mixed water trips with or without gear.



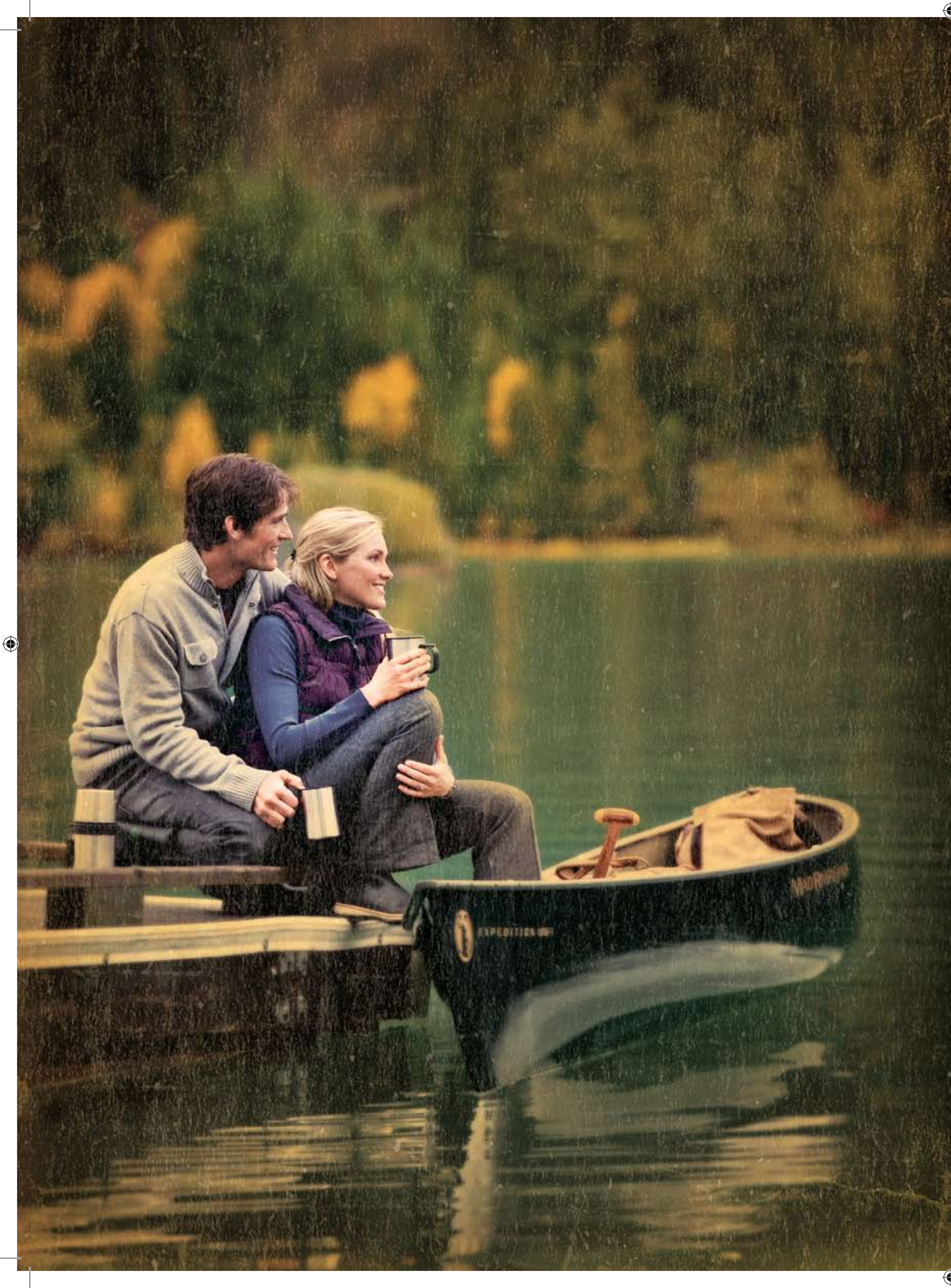
L 16' / 488 cm  
W 33.5" / 85 cm  
Weight 72 lbs / 33 kg  
Capacity 1100 lbs / 499 kg



- STANDARD FEATURES**
- Shallow Arch Hull
  - Moderate Rocker
  - Cane Seats
  - Shaped Ash Carry Yoke
  - Ash Tripping Thwart
  - IQ Cupholders (2) (IQ2 Only)

- OPTIONS**
- Webbed Seats
  - Cane Bucket Seats (Not in IQ)
  - Contoured Ash Yoke (Not in IQ)
  - Additional Ash Thwart
  - Slotted Ash Gunwales
  - Stained Ash Gunwales
  - Flotation Bag Lash System
  - Flotation Bag Keeper Strap
  - Skid Plates





# TOURING

## ∞ CANOES ∞



The process of designing and building boats is as much art as science. And for many of us, the journey can be more rewarding than the destination. If you are one who appreciates the beauty and discovery of the journey, then our Touring Canoes were crafted with you in mind. Designed for cruising on open waters, these hulls and material offer a light weight and maximum paddling efficiency.

EXPEDITION

At 45-48 lbs and 18'6" long, the Expedition is bringing tripping back in a big way. Designed with very little rocker and an asymmetrical hull, this hybrid composite "super" canoe will track true and stay on course throughout your entire journey.

EXPEDITION 186

**NEW** Able to carry substantial gear while maintaining a rapid pace, the Expedition 186 also excels as a comfortable, yet high performance cruising hull when unburdened.



L 18' 6" / 564 cm  
W 34" / 86 cm  
Weight 55 lbs / 25 kg  
Capacity 1250 lbs / 568 kg

**STANDARD FEATURES**

- Shallow Vee Hull
- Moderate Rocker
- Cane Bucket Seats
- Stern Footbrace
- Contoured Ash Yoke
- Ash Thwarts (1)

**OPTIONS**

- Slotted Ash Gunwales
- Stained Ash Gunwales
- Flotation Bag Lash System
- Flotation Bag Keeper Strap
- Skid Plates



REFLECTION SERIES

The Reflection series offers reassuring stability, effortless straight-ahead efficiency and surprising maneuverability for use on lakes or rivers.

NEW 15

This compact responsive tandem sustains speed while remaining nimble on both flat water and river.



L 15' 4" / 467 cm  
W 34" / 86 cm  
Weight 58 lbs / 27 kg  
Capacity 800 lbs / 363 kg

**STANDARD FEATURES**

- Shallow Arch Hull
- Minimal Rocker
- Cane Seats (Buckets in IQ)
- Shaped Ash Carry Yoke (Not in IQ)
- IQ Cupholders (2) (IQ & IQ2 Only)

**OPTIONS**

- Webbed Seats
- Cane Bucket Seats
- Contoured Ash Yoke (Not in IQ)
- Additional Ash Thwart (Not in IQ)
- Slotted Ash Gunwales
- Stained Ash Gunwales
- Flotation Bag Lash System
- Flotation Bag Keeper Strap
- Skid Plates



17

The large capacity and long hull make this an ideal choice for multi-day tripping and family use.



L 17' 4" / 528 cm  
W 35.5" / 90 cm  
Weight 66 lbs / 30 kg  
Capacity 900 lbs / 408 kg

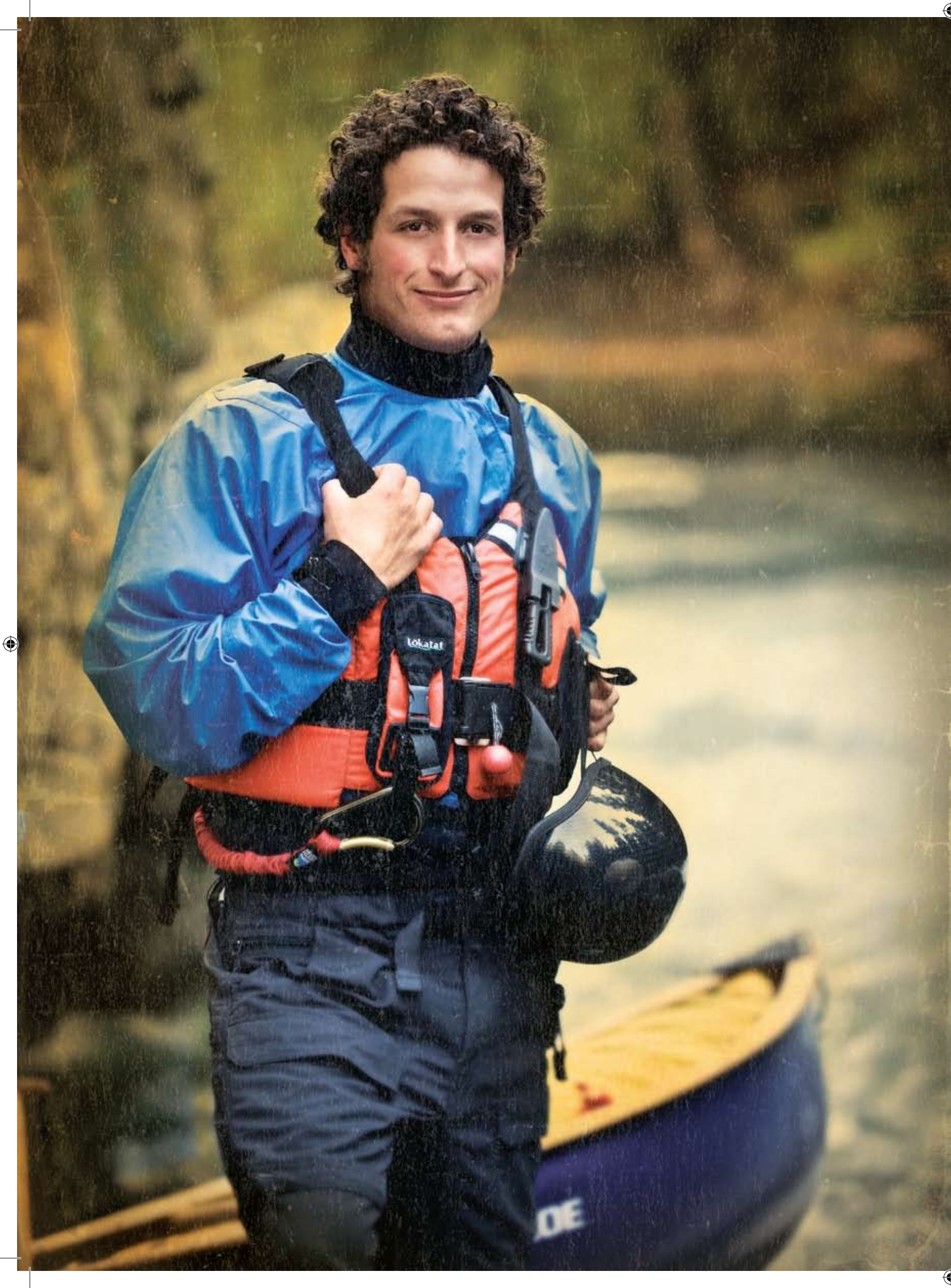
**STANDARD FEATURES**

- Shallow Arch Hull
- Minimal Rocker
- Cane Seats (Buckets in IQ)
- Shaped Ash Carry Yoke (Not in IQ)
- IQ Cupholders (2) (IQ & IQ2 Only)

**OPTIONS**

- Webbed Seats
- Cane Bucket Seats
- Contoured Ash Yoke (Not in IQ)
- Additional Ash Thwart (Not in IQ)
- Slotted Ash Gunwales
- Stained Ash Gunwales
- Flotation Bag Lash System
- Flotation Bag Keeper Strap
- Skid Plates





# WHITEWATER

∞ CANOES ∞



Rabbit's reputation as a trickster reminds us to incorporate an element of play in our days as well as our designs. And always end our day with a smile. We invite you to do the same and offer our Whitewater Canoes to help find the fun. These are very specialized boats for high level whitewater play. These tried and true designs can go anywhere a kayak can go and have won more than their share of whitewater championships.

OUTRAGE / CAPTION

When you say "play boat" the image in your head is the Outrage. Designed for different sized paddlers, select the edition that fits you best. And for tandem performance and agility, Caption is the only name you need to know.

OUTRAGE<sub>RX</sub>

Royalex construction and proven design bring this canoe victories time and again. For the 190lb. and under paddler.



L 12' / 365 cm  
W 28.25" / 72 cm  
Weight 52 lbs / 24 kg  
Capacity 425 lbs / 193 kg

STANDARD FEATURES  
• Shallow Arch Hull  
• Extreme Rocker  
• Ash Thwarts (2)  
• IQ Cupholders (IQ2 Only)

OPTIONS  
• Flotation Bag Lash System  
• Flotation Bag Keeper Strap  
• Skid Plates  
• Ready-To-Go Outfitting  
• Ready-To-Go Outfitting Upgrade



OUTRAGE X<sub>RX</sub>

A high performance play boat for the 190 pound and up paddler.



L 13' / 396 cm  
W 28.75" / 74 cm  
Weight 53 lbs / 24 kg  
Capacity 550 lbs / 250 kg

STANDARD FEATURES  
• Shallow Arch Hull  
• Extreme Rocker  
• Ash Thwarts (2)  
• IQ Cupholders (IQ2 Only)

OPTIONS  
• Flotation Bag Lash System  
• Flotation Bag Keeper Strap  
• Skid Plates  
• Ready-To-Go Outfitting  
• Ready-To-Go Outfitting Upgrade



CAPTION<sub>RX</sub>

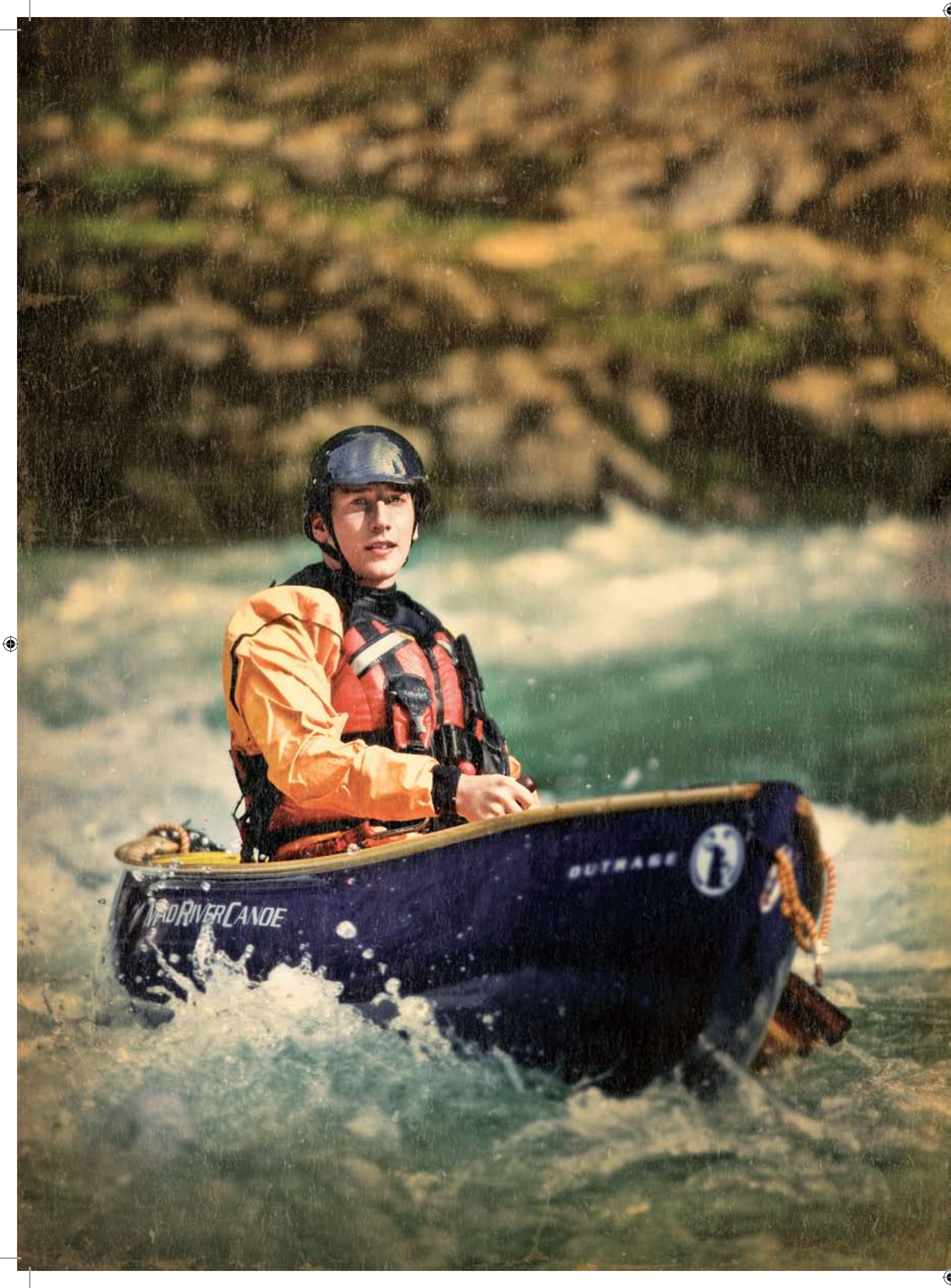
The celebrated benchmark for tandem, open canoe, whitewater play boats.



L 14' / 428 cm  
W 32" / 81 cm  
Weight 58 lbs / 26 kg  
Capacity 850 lbs / 386 kg

STANDARD FEATURES  
• Shallow Arch Hull  
• Extreme Rocker  
• Ash Thwarts (2)  
• IQ Cupholders (IQ2 Only)

OPTIONS  
• Flotation Bag Lash System  
• Flotation Bag Keeper Strap  
• Skid Plates





# RECREATION

∞ CANOES ∞



The innovation we bring to the canoe industry is not limited to design and construction. We're constantly investigating new ways to grow our family of paddlers. For those who are newly introduced to this world or who are looking for a low maintenance solution for getting their family on the water, we offer our selection of Recreational Canoes. Easy paddling, multiple uses and virtually no upkeep, make these the ultimate grab-and-go boats.

ADVENTURE / DESTINY

Our Adventure line offers as versatile and family-friendly an entry level boat as possible. And the Destiny, with its comfort and speed, brings new performance to rotationally molded canoes.

ADVENTURE  
NEW 16

Everything you want - contoured seats, padded adjustable backrests, even cup holders and center seats are standard. New Squareback design supports a trolling motor without any modifications.



L 16' / 488 cm  
W 37" / 94 cm  
Weight 84 lbs / 38 kg  
Capacity 950 lbs / 431 kg



STANDARD FEATURES:

- Multi-chine Hull
- Adjustable Padded Backrest
- Padded Seats
- Padded Center Seat
- Cupholders
- Gear Tray
- Mesh Pockets
- Padded Carry Handles
- Integral Transom for Trolling Motor

ADVENTURE  
14

All the performance and maintenance-free ease of the 16, with added stability and ease of handling.



L 14' / 427 cm  
W 37" / 94 cm  
Weight 75 lbs / 34 kg  
Capacity 875 lbs / 397 kg



STANDARD FEATURES:

- Multi-chine Hull
- Adjustable Padded Backrest
- Padded Seats
- Center Seat
- Cupholders
- Gear Tray
- Mesh Pockets
- Padded Carry Handles

DESTINY

The asymmetrical hull offers increased speed and glide, while the extended stern enhances tracking.

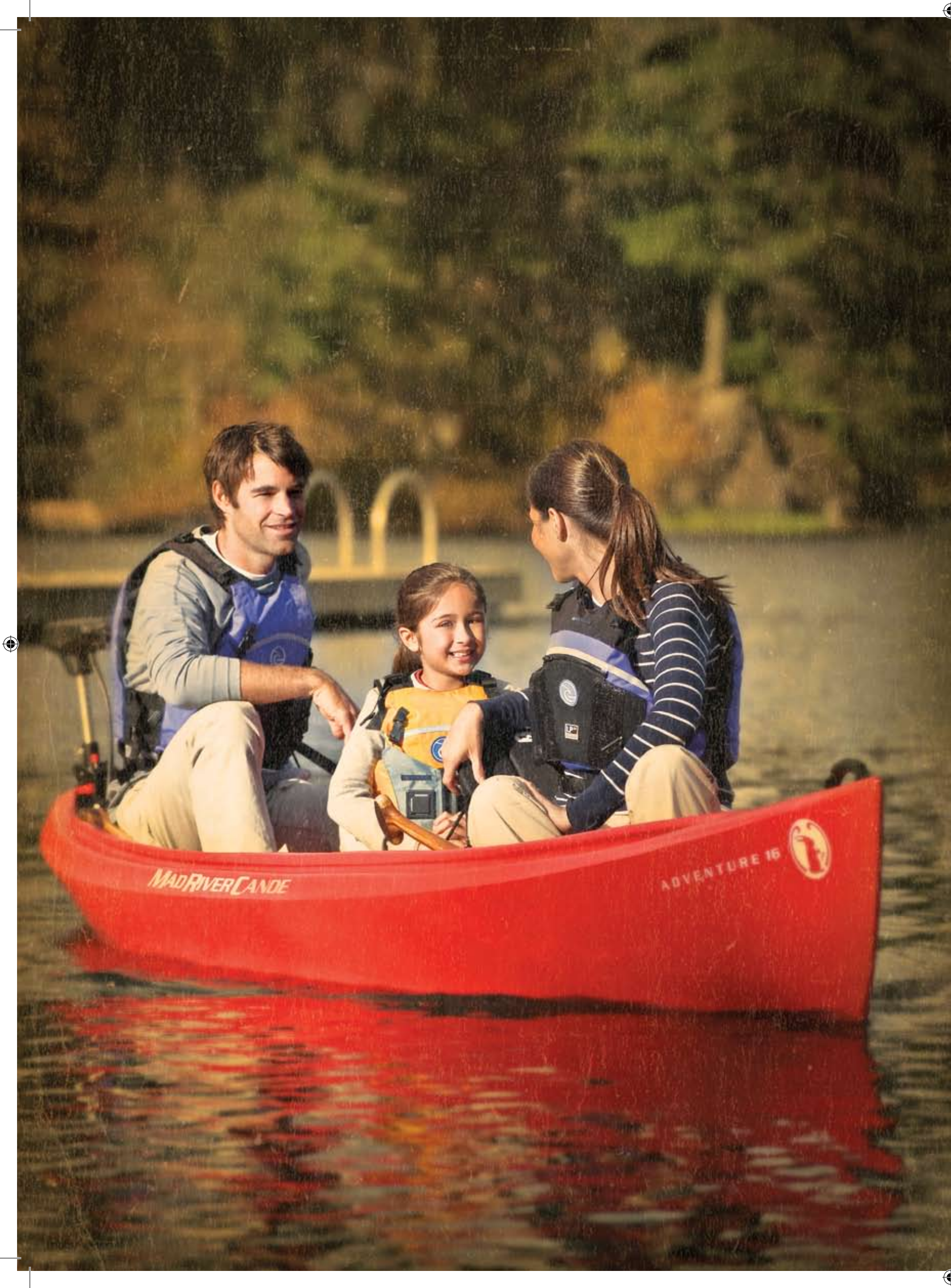


L 16' / 488 cm  
W 35.75" / 91 cm  
Weight 81 lbs / 37 kg  
Capacity 950 lbs / 431 kg



STANDARD FEATURES:

- Multi-chine Hull
- Adjustable Padded Backrest
- Padded Seats
- Center Seat
- Cupholders
- Gear Tray
- Mesh Pockets
- Padded Carry Handles





# SPORTING

∞ C A N O E S ∞



Legend has it, that Rabbit was a great hunter. In fact, he once caught The Man in the Moon. He returned him of course. It was the sporting thing to do. Naturally, any sporting canoe we would put forth would be designed with the sportsman in mind. Our Sporting Canoes offer a high level of stability and easy access to gear, making for enjoyable days on the lake or in the marsh.

ANGLER / DUCK HUNTER

The Duck Hunter offers classic styling paired with uncompromising functionality. And the Angler provides reassuring stability that allows you to focus on your fishing.



L 13' 11" / 424 cm  
W 37.25" / 96 cm  
Weight 56 lbs / 25 kg  
Capacity 750 lbs / 340 kg

- STANDARD FEATURES**
- Flared Shallow Arch Hull
  - Minimal Rocker
  - Cane Seats (Buckets In IQ)
  - Shaped Ash Carry Yoke (Not In IQ)
  - IQ Cupholders (2) (IQ & IQ2 Only)

- OPTIONS**
- Additional Ash Thwart (Not In IQ)
  - Slotted Ash Gunwales
  - Stained Ash Gunwales
  - Flotation Bag Lash System
  - Flotation Bag Keeper Strap
  - Skid Plates

ANGLER  
I4

The lightweight yet durable Royalex® hull design makes this an ideal "poke-around" canoe for lakes and ponds: excellent for fishing and hunting.



L 15' 11.25" / 486 cm  
W 35.25" / 90 cm  
Weight 73 lbs / 33 kg  
Capacity 1100 lbs / 499 kg

- STANDARD FEATURES**
- Shallow Vee Hull
  - Moderate Rocker
  - Cane Seats
  - Shaped Ash Carry Yoke
  - Ash Tripping Thwart
  - Stained Wood Gunwales and Seats
  - Slotted Wood Gunwales

- OPTIONS**
- Flotation Bag Lash System
  - Flotation Bag Keeper Strap
  - Skid Plates

DUCK  
HUNTER

Crafted with an Explorer hull (olive drab in and out), this timeless canoe is fashioned with classic cane seats along with dark stained slotted ash gunwales, thwart and yoke.

SYNERGY SERIES

This hybrid angling boat was designed specifically for anglers. It's a canoe version of a sit-on-top with the added benefit of generous, easily-accessible gear storage.



L 12' / 366 cm  
W 30.75" / 78 cm  
Weight 60 lbs / 27 kg  
Capacity 350 lbs / 131 kg

- STANDARD FEATURES**
- Multi-chine Hull
  - Adjustable Padded Backrest
  - Padded Seat
  - Adjustable Footbraces
  - Molded Cup Holder
  - Recessed Rod Holders (2)
  - Rod Notches (2)
  - Mesh Gear Covers (Bow & Stern)
  - Cockpit Bungee Tie Down

- OPTIONS**
- Angler Package
  - Rudder
  - Weight with Rudder 64 lbs / 29 kg

I2

Deeper and drier than conventional SOTs, its features include rod holders, cargo nets and padded seats with adjustable back rests.



L 14' / 428 cm  
W 30" / 76 cm  
Weight 64 lbs / 29 kg  
Capacity 400 lbs / 149 kg

- STANDARD FEATURES**
- Multi-chine Hull
  - Adjustable Padded Backrest
  - Padded Seat
  - Adjustable Footbraces
  - Molded Cup Holder
  - Recessed Rod Holders (2)
  - Rod Notches (2)
  - Mesh Gear Covers (Bow & Stern)
  - Cockpit Bungee Tie Down

- OPTIONS**
- Angler Package
  - Rudder
  - Weight with Rudder 68 lbs / 31 kg

I4

Get all the benefits of the 12, with added speed and glide, making the 14 a great choice for longer days on the water.



# CANOE DESIGN

## ∞ THE ELEMENTS ∞

### BEAM (width)



Measured at the widest point of the canoe and largely impacts stability and speed. The most common reference is width at the gunwales but an often more telling dimension is width at the waterline as this will determine the amount of effort required to move the boat through the water.

#### NARROW (33" OR LESS):

- Pros
- Speed
  - Paddling efficiency
- Cons
- Lower initial stability

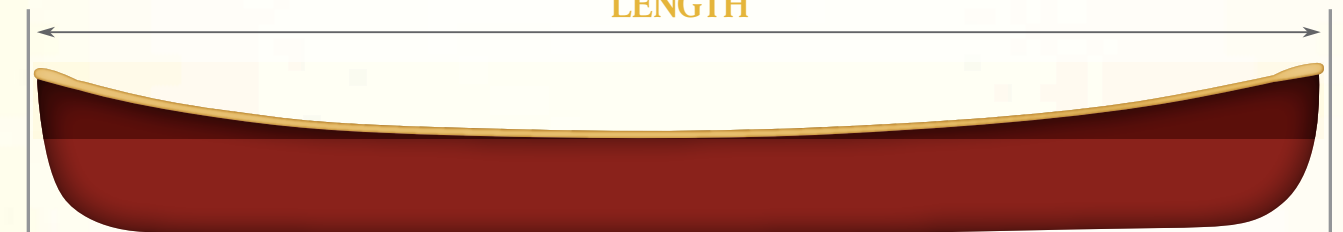
#### MEDIUM (34-37"):

- Pros
- Good blend of speed, stability, and capacity
  - Versatility, can be paddled solo or tandem
- Cons
- Speed/glide falls below narrow canoe
  - Initial stability lower than a wide canoe

#### WIDE (38" OR MORE):

- Pros
- Higher initial stability
  - Stable platform for fishing, photography, etc.
- Cons
- Slow
  - Poor glide
  - Farther reach to water
  - Difficult to paddle solo

### LENGTH



Measured stem to stem and is the most straightforward of all the aspects of canoe design. In terms of versatility, canoes in and around 16' are preferred. Large enough to be paddled tandem with a load or soloed on occasion and fast enough for touring yet nimble enough to work their way down a twisty stream. Canoes with emphasis on cruising speed tend to be longer while whitewater canoes shorter with a premium on maneuverability.

#### SHORT (14' OR LESS):

- Pros
- Increased maneuverability
  - Higher initial stability
  - Nimble and responsive to turning strokes
- Cons
- Slower
  - Less glide or carry
  - Poor tracking

#### MEDIUM (14.5' - 17'):

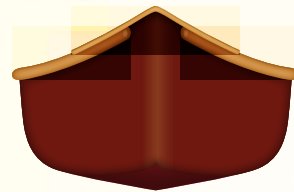
- Pros
- Moderate speed and glide
  - Can be paddled tandem or solo
  - Moderate maneuverability
- Cons
- Slower than long canoes
  - Less nimble than shorter canoes

#### LONG (17.5' +):

- Pros
- Faster on open, flat water
  - Better carry or glide between strokes
  - Increased capacity
- Cons
- Less maneuverable or nimble
  - Heavier than short canoe of same material

## HULL (Cross Section)

To visualize this aspect of canoe design, think about bisecting the canoe from side to side. The hull can impact canoe performance in a number of ways, from stability to maneuverability to speed. Canoes usually feature one of three hull cross sections: Flat, Shallow Arch, and Shallow Vee. Note that both Shallow Arch and Vee can vary in terms of degree or angle.



### SHALLOW VEE

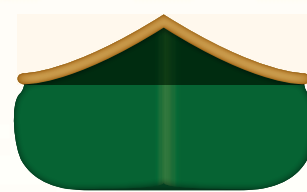
Explorer, Explorer 15, Explorer 16TT & 14TT, Freedom 17, Malecite, Expedition 186

#### Pros

- Most versatile hull cross section
- Highest final stability
- Superior rough water performance
- Better tracking
- Superior rigidity for increased hull efficiency
- Can be "tuned" (track: paddle straight up; maneuver: lean hull into turn)

#### Cons

- Wear concentrated at point of Vee
- Lower initial stability
- Slower than shallow arch in calm conditions



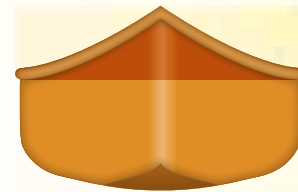
### FLAT BOTTOM

#### Pros

- High initial stability
- Maneuverable

#### Cons

- Reduced final stability
- Low structural integrity
- Slow
- Unpredictable if leaned or in waves
- Stability reduced as load increases
- Tends to invert (oilcan) unless reinforced or heavily built



### SHALLOW ARCH

Adventure 14 & 16, Freedom Solo, Legend 15 & 16, Outrage, Outrage X, Caption, Destiny, Synergy 12 & 14, Angler 14, Reflection 15 & 17

#### Pros

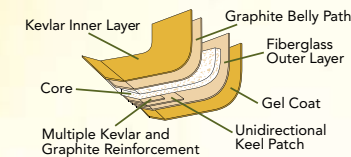
- Paddling efficiency & speed in calm conditions
- Higher final stability than flat bottom
- Maneuverable when combined with moderate to extreme rocker

#### Cons

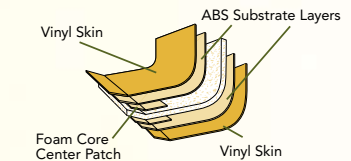
- Performance degrades in rough waters
- Lower final stability than shallow vee

## HULL MATERIALS

**KEVLAR™ KX** Mad River's been building canoes of Kevlar® aramid fiber longer than anyone else so we know it well. Kevlar's got an awful lot going for it, such as a tensile strength 5 times that of steel. This provides tremendous impact absorption and tear resistance, traits that make Kevlar a choice material for body armor for the military and police. At the same time, Kevlar's not perfect in all respects and over the years Mad River has married the best attributes of Kevlar to a hybrid composite matrix containing fiberglass, graphite, and core material to build the most durable canoes per pound available.



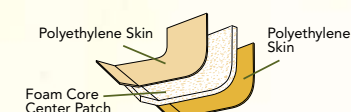
**ROYALEX™ RX** Royalex is a vacuum-formed sheet laminate consisting of external vinyl layers enclosing multiple ABS plastic layers and a foam core. Not all Royalex is the same. Each canoe is made of a specific Royalex sheet designed for the intended use of that canoe. Royalex is very resistant to impact and its moderate weight makes it the preferred material for paddlers wanting to balance durability and weight in demanding conditions. It has "memory," allowing it to distort to absorb impact and then rebound to original form after pressure is relieved. Royalex is repairable should the worst-case scenario ever occur.



**POLYETHYLENE** Single solid layer of linear high-density polyethylene is used exclusively in our economically priced Adventure 14+16s. Polyethylene has excellent abrasion and impact resistance but if unsupported is too flexible for efficient paddling. Rather than simply put a reinforcing pole down the center of the hull we opted to integrate the hull and deck structure to provide the necessary rigidity and gain the strength available in a uni-body style construction. The result is a very tough and virtually maintenance free hull at a very modest price. Weight is comparable to TT hulls.

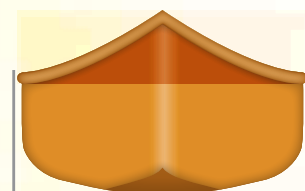


**TRIPLE TOUGH™ TT** Mad River's proprietary polyethylene skin/foam/skin hull material produces a tough, durable, maintenance-free, value-priced hull. Foam core provides integral flotation and stiffness. High density linear polyethylene skins provide superior impact protection and are repairable. TT hulls average about 15 - 20% heavier than Royalex and offer similar performance characteristics.



## HULL (Side Profile)

Refers to the form of the side of the canoe looking at it from one end. Canoe sides can be straight, flared, (wider from waterline to gunwale) or tumble-home (narrower at gunwale than at waterline). A canoe can actually feature all three profiles from end to end with flare at bow, tumble-home at center and straight at the stern. The primary factors in determining choice of side profile are stability, paddling efficiency, and ability to shed waves and water. The amount of flare or tumble-home can vary from model to model.



### STRAIGHT

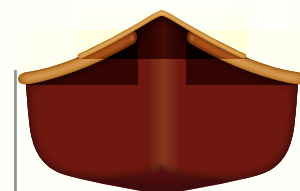
Freedom Solo

#### Pros

- Maintains final stability
- Moderately dry vs. side waves

#### Cons

- In deep hulls makes for long reach to water
- Subject to windage



### FLARED

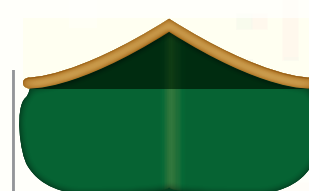
Explorer, Explorer 15, Explorer 16TT & 14TT, Freedom 17, Legend 16, Malecite, Angler 14, Caption, Synergy 12 & 14

#### Pros

- Driest side hull profile
- Increases final stability
- Allows for narrower waterline for increased efficiency and speed

#### Cons

- Reduced paddling comfort and efficiency (farther reach to water)



### TUCKED

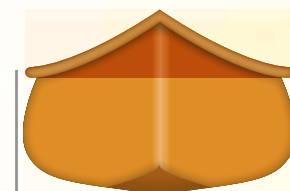
Outrage, Outrage X, Legend 15, Adventure 14 & 16, Destiny, Reflection 15 & 17, Expedition 186

#### Pros

- Moderately dry
- Maintains final stability
- Protects gunwales from side impact or abrasion

#### Cons

- Reduced paddling comfort and efficiency (farther reach to water)



### TUMBLE HOME

#### Pros

- Allows more efficient paddle stroke
- Preferable for flat/calm water solos

#### Cons

- Reduces final stability
- Wet vs. side waves as water will follow curve of hull up side

## SYMMETRY

Symmetry refers to the shape of the canoe viewed from overhead. Canoes can be symmetrical or asymmetrical. Asymmetrical canoes can be fish-form with widest point ahead of center or swede-form with widest point behind center.



### SYMMETRICAL

Explorer, Explorer 15, Explorer 16TT & 14TT, Freedom 16, 17 & Solo, Legend 15 & 16, Malecite, Adventure 14

#### Pros

- Predictable handling
- Can be paddled in reverse for better trim with adult/child paddlers or solo paddler

#### Cons

- Slower than swede-form hull



### ASYMMETRICAL SWEDE FORM

Destiny, Synergy 12 & 14, Adventure 16, Reflection 15 & 17, Expedition 186

#### Pros

- Enhanced forward speed
- Enhanced glide

#### Cons

- Can't be paddled backwards without some performance degradation in speed and glide
- Can be wet when paddling into waves



### ASYMMETRICAL FISH FORM

Outrage, Outrage X, Caption

#### Pros

- Improved buoyancy over drops
- Increased dryness and wave deflection

#### Cons

- Slow
- Decreased glide

## KEEL LINE

A canoe's keel line is the profile of the hull bottom running from stem to stem, best seen by standing back and viewing the canoe from the side. The keel line can range from straight or level to highly arched or rockered (think of the runner on bottom of a rocking chair). We classify canoes that have less than 2" of rocker as slightly rockered. Models with rocker ranging from 2" to 3" are considered moderately rockered and those with over 3" of rocker as extremely rockered.



### SLIGHTLY ROCKERED

Angler 14, Adventure 14 & 16, Malecite, Destiny, Synergy 12 & 14, Reflection 15 & 17, Expedition 186

**Pros**  
• Enhanced tracking, speed

**Cons**  
• Limited maneuverability

### MODERATELY ROCKERED

Explorer, Explorer 15, Explorer 16TT, Explorer 14TT, Freedom 17, Freedom Solo, Legend 15, Legend 16

**Pros**  
• Good balance between maneuverability and speed  
• Most versatile keel line

**Cons**  
• Reduced tracking than straight keel  
• Reduced speed than straight keel  
• Less maneuverable than highly rockered

### EXTREMELY ROCKERED

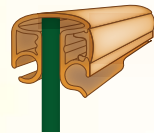
Outrage, Outrage X, Caption

**Pros**  
• Enhanced maneuverability

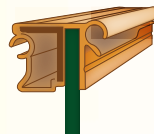
**Cons**  
• Poor tracking  
• Reduced forward speed

## GUNWALES & WEIGHT

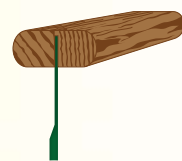
Your choice of gunwales will affect the final weight of your canoe. This is one of the reasons Mad River provides so many gunwale options to choose from. Weights in this catalog reflect canoes outfitted with either IQ2 vinyl or wood gunwales. If lightest possible weight is your priority, opt for canoes with conventional aluminum gunwales such as the Horizon 15 & 17, Reflection 17, Angler 14, Explorer KX or Malecite KX. Savings will vary depending on length of canoe but will average 2 to 3.5 lbs



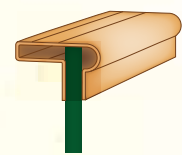
**IQ™** Aluminum gunwale with dual internal channels to allow repositioning of seats and installation (and removal) of modular accessories. Hidden fasteners for clean sleek appearance and nothing to snag your hand on. Moderately light and very stiff to maximize hull efficiency. Minimal maintenance.



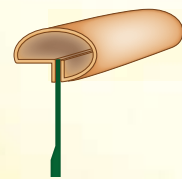
**IQ2™** Vinyl gunwale version of the IQ. Features same two internal channels as original IQ and provides same capabilities except for movable seats. Moderate to heavy weight with moderate stiffness with internal aluminum "L" insert. Maintenance free.



**WOOD** To many, there's nothing like a wood gunwaled canoe and Mad River's always been known for the quality workmanship in our wood gunwales. Crafted of native white ash specially selected for long, straight, tight grain providing strength, stiffness, and a touch of flex. Periodic maintenance required. Choice of natural or dark walnut finish.

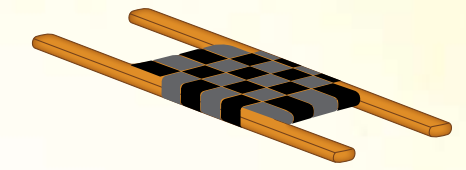
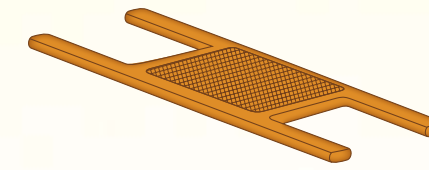
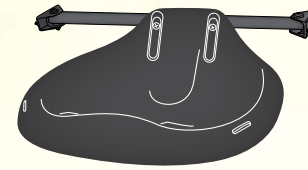


**ALUMINUM FOR ROYALEX** Slightly "beefier" than our aluminum rail for composite canoes. Designed to minimize weight and maximize efficiency in select cruising Royalex canoes such as the Horizon 15 and 17. Light to moderate in weight and high stiffness. Minimal maintenance.



**ALUMINUM FOR COMPOSITE** Specifically engineered for Kevlar composite canoes for lightest weight and maximum stiffness for efficiency. Proprietary design captures and hides rough edges of fasteners. Light weight with minimal maintenance.

## SEATING



### IQ SEAT

Bucket seat is contoured for stability and can be adjusted for height and for angle for maximum comfort and support. Standard on all IQ outfitted canoes. Not available on IQ2, aluminum or wood gunwaled canoes.

### CANE SEAT

Traditional flat ash framed seat with cane insert. Lightweight and comfortable and cane does not hold or absorb water making for a drier ride. Standard on Royalex and composite canoes with wood, IQ2, or aluminum gunwales. Not available on IQ.

### WEB SEAT

Traditional flat ash framed seat with woven web seating. Provides increased durability over cane at comparable weight. Standard on Explorer 16TT, and 14TT, with vinyl gunwales and optional on Royalex and composite canoes with wood, IQ2, or aluminum gunwales. Not available on IQ.

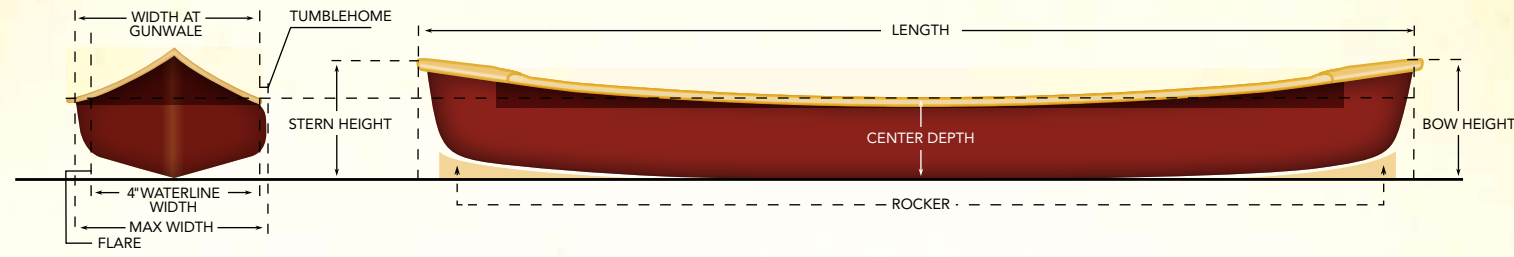
## GUNWALE & SEATING SYSTEM

Mad River offers more choice in how you want your canoe outfitted than any other manufacturer with 6 gunwale options and 3 seating choices providing more performance and more comfort.

CANOES	GUNWALES						SEATING SYSTEMS		
	IQ	IQ2	WOOD	ALUMINUM RX	ALUMINUM KX	INTEGRAL	IQ	CANE	WEB
Explorer 16 RX	■	■	■	■	■	■	■	■	■
Explorer 16 KX	■	■	■	■	■	■	■	■	■
Explorer 15 RX	■	■	■	■	■	■	■	■	■
Explorer 14 TT	■	■	■	■	■	■	■	■	■
Explorer 16 TT	■	■	■	■	■	■	■	■	■
Freedom Solo	■	■	■	■	■	■	■	■	■
Malecite	■	■	■	■	■	■	■	■	■
Legend 15 RX	■	■	■	■	■	■	■	■	■
Legend 16 RX	■	■	■	■	■	■	■	■	■
Expedition 186	■	■	■	■	■	■	■	■	■
Reflection 15	■	■	■	■	■	■	■	■	■
Reflection 17	■	■	■	■	■	■	■	■	■
Outrage	■	■	■	■	■	■	■	■	■
Outrage X	■	■	■	■	■	■	■	■	■
Caption	■	■	■	■	■	■	■	■	■
Adventure 16	■	■	■	■	■	■	■	■	■
Adventure 14	■	■	■	■	■	■	■	■	■
Destiny	■	■	■	■	■	■	■	■	■
Angler 14	■	■	■	■	■	■	■	■	■
Duckhunter	■	■	■	■	■	■	■	■	■
Synergy 12	■	■	■	■	■	■	■	■	■
Synergy 14	■	■	■	■	■	■	■	■	■

Polyethylene expands and contracts with changes in temperature and humidity. Actual dimensions can vary from those shown in the Specifications Chart due to molding process and/or exposure to extreme hot or cold temperatures. Slight variations are not covered by warranty. Specifications and features are subject to change.

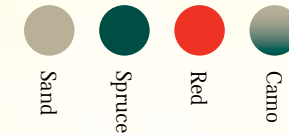
# 🦋 CANOE SPECIFICATIONS 🦋



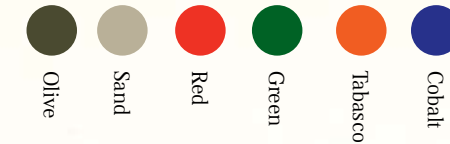
PAGE	CANOES	LENGTH	WIDTH			DEPTH			ROCKER		CAPACITY 6" FREEBOARD	AVERAGE WEIGHT	IQ SYSTEM
			GUNWALE	@ 4" WATERLINE	MAXIMUM	@ CENTER	@ BOW	@ STERN	@ BOW	@ STERN			
7	Explorer 16 RX	15' 11.25" / 486 cm	35.25" / 90 cm	33.25" / 85 cm	35.25" / 90 cm	14.5" / 37 cm	21.25" / 54 cm	21" / 53 cm	2.25" / 6 cm	2.25" / 6 cm	1100 lbs / 499 kg	72 lbs / 33 kg	IQ /IQ2
7	Explorer 16 KX	16' 3" / 495 cm	34.5" / 88 cm	33.25" / 85 cm	34.5" / 88 cm	14.5" / 37 cm	22.75" / 58 cm	21" / 53 cm	2.25" / 6 cm	2.25" / 6 cm	1100 lbs / 499 kg	54 lbs / 25 kg	IQ
7	Explorer 15 RX	14' 9" / 449 cm	35.75" / 91 cm	33.75" / 86 cm	35.75" / 91 cm	14.25" / 36 cm	21" / 53 cm	20" / 51 cm	2.25" / 6 cm	2.25" / 6 cm	850 lbs / 386 kg	62 lbs / 28 kg	IQ /IQ2
8	Explorer 14 TT	14' 6" / 442 cm	36" / 91 cm	34" / 86 cm	36" / 91 cm	14.5" / 37 cm	22" / 56 cm	21" / 53 cm	2.25" / 6 cm	2.25" / 6 cm	850 lbs / 386 kg	72 lbs / 33 kg	IQ2
8	Explorer 16 TT	16' / 486 cm	36" / 91 cm	34" / 86 cm	36" / 91 cm	15" / 38 cm	22" / 56 cm	21" / 53 cm	2.25" / 6 cm	2.25" / 6 cm	1100 lbs / 499 kg	82 lbs / 38 kg	IQ2
9	Freedom Solo	14' 6.75" / 444 cm	29" / 74 cm	29" / 74 cm	30.5" / 78 cm	14.25" / 36 cm	20" / 51 cm	19.75" / 50 cm	2.5" / 6 cm	2.5" / 6 cm	750 lbs / 340 kg	55 lbs / 25 kg	IQ /IQ2
9	Malecite	16' 5.25" / 501 cm	33" / 84 cm	32.25" / 82 cm	34.5" / 88 cm	13" / 33 cm	19" / 48 cm	18" / 46 cm	1.5" / 4 cm	2.25" / 6 cm	850 lbs / 386 kg	51 lbs / 23 kg	IQ
13	Legend 15 RX	15' / 457 cm	33.5" / 85 cm	33" / 84 cm	33.5" / 85 cm	14.5" / 37 cm	22" / 56 cm	20" / 51 cm	2" / 5 cm	2" / 5 cm	960 lbs / 435 kg	66 lbs / 30 kg	IQ2
13	Legend 16 RX	16' / 488 cm	35" / 89 cm	33.5" / 85 cm	33.5" / 85 cm	14.5" / 37 cm	22" / 56 cm	20" / 51 cm	2" / 5 cm	2" / 5 cm	1100 lbs / 499 kg	72 lbs / 33 kg	IQ2
16	Expedition 186	18' 6" / 564 cm	34" / 86 cm	31" / 79 cm	34" / 86 cm	14.5" / 37 cm	20.5" / 52 cm	18.75" / 48 cm	2.25" / 6 cm	1" / 3 cm	1250 lbs / 568 kg	45 lbs / 21 kg	N/A
17	Reflection 15	15' 4" / 467 cm	33" / 84 cm	33" / 84 cm	34" / 86 cm	13.5" / 34 cm	19" / 48 cm	19" / 48 cm	1" / 3 cm	1" / 3 cm	800 lbs / 363 kg	58 lbs / 27 kg	IQ /IQ2
17	Reflection 17	17' 4" / 528 cm	33" / 84 cm	33" / 84 cm	35.5" / 90 cm	13" / 33 cm	19.5" / 50 cm	19.5" / 50 cm	2.25" / 6 cm	.5" / 1 cm	900 lbs / 408 kg	66 lbs / 30 kg	IQ /IQ2
21	Outrage RX	12' / 365cm	25.5" / 65 cm	26.75" / 68 cm	28.25" / 72 cm	15.5" / 39 cm	23.5" / 59 cm	22.25" / 57 cm	5.5" / 14 cm	5.75" / 14 cm	425 lbs / 193 kg	52 lbs / 24 kg	IQ2
21	Outrage X RX	13' / 396 cm	25.75" / 65 cm	27.25" / 69 cm	28.75" / 74 cm	15" / 38 cm	24.75" / 63 cm	22" / 56 cm	6" / 15 cm	5" / 13 cm	550 lbs / 250 kg	53 lbs / 24 kg	IQ2
21	Caption RX	14' / 428 cm	30" / 77 cm	30.5" / 77 cm	32" / 81 cm	15.5" / 39 cm	23" / 59 cm	23" / 59 cm	5" / 13 cm	5" / 13 cm	850 lbs / 386 kg	58 lbs / 26 kg	IQ2
25	Adventure 16	16' / 488 cm	33" / 84 cm	34" / 86 cm	37" / 94 cm	14" / 36 cm	19" / 48 cm	16.75" / 43 cm	3.25" / 9 cm	3" / 7 cm	950 lbs / 431 kg	84 lbs / 38 kg	N/A
25	Adventure 14	14' / 427 cm	33" / 84 cm	34" / 86 cm	37" / 94 cm	14.5" / 37 cm	21" / 53 cm	18" / 46 cm	1" / 3 cm	.5" / 1 cm	875 lbs / 397 kg	75 lbs / 34 kg	N/A
25	Destiny	16' / 488 cm	31" / 79 cm	30" / 76 cm	35.75" / 91 cm	15" / 38 cm	20.75" / 53 cm	17" / 43 cm	2" / 5 cm	.5" / 1 cm	950 lbs / 431 kg	81 lbs / 37 kg	N/A
28	Angler 14	13' 11" / 424 cm	37.75" / 96 cm	37.25" / 96 cm	37.25" / 96 cm	14.25" / 36 cm	21" / 53 cm	21.25" / 54 cm	.75" / 2 cm	.875" / 2 cm	750 lbs / 340 kg	56 lbs / 25 kg	IQ /IQ2
28	Duckhunter	15' 11.25" / 486 cm	35.25" / 90 cm	33.25" / 85 cm	35.25" / 90 cm	14.5" / 37 cm	21.25" / 54 cm	21" / 53 cm	2.25" / 6 cm	2.25" / 6 cm	1100 lbs / 499 kg	73 lbs / 33 kg	N/A
29	Synergy 12™	12' / 366 cm	29.25" / 74 cm	28" / 71 cm	30.75" / 78 cm	10" / 25 cm	14.5" / 37 cm	12.25" / 31 cm	2" / 5 cm	.5" / 1 cm	350 lbs / 131 kg	60 lbs / 27 kg	N/A
29	Synergy 12™ w/ Rudder	12' / 366 cm	29.25" / 74 cm	28" / 71 cm	30.75" / 78 cm	10" / 25 cm	14.5" / 37 cm	12.25" / 31 cm	2" / 5 cm	.5" / 1 cm	350 lbs / 131 kg	64 lbs / 29 kg	N/A
29	Synergy 14™	14' / 428 cm	28.75" / 73 cm	28" / 71 cm	30" / 76 cm	10" / 25 cm	14.25" / 36 cm	12.25" / 31 cm	2.25" / 6 cm	1.5" / 4 cm	400 lbs / 149 kg	64 lbs / 29 kg	N/A
29	Synergy 14™ w/ Rudder	14' / 428 cm	28.75" / 73 cm	28" / 71 cm	30" / 76 cm	10" / 25 cm	14.25" / 36 cm	12.25" / 31 cm	2.25" / 6 cm	1.5" / 4 cm	400 lbs / 149 kg	68 lbs / 31 kg	N/A

# 🦋 COLOR OPTIONS 🦋

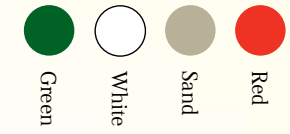
## ROTOMOLDED & TRIPLE TOUGH COLORS



## ROYALEX COLORS

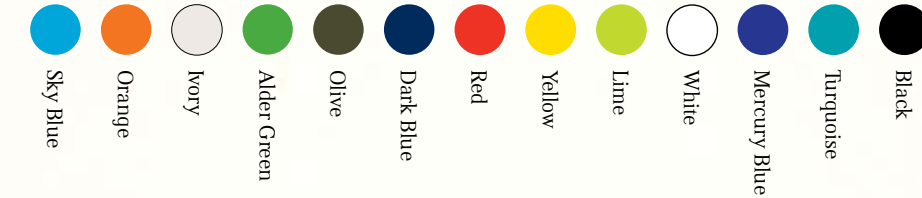


## KEVLAR COLORS



## CUSTOM KEVLAR COLORS

Customers may order a Kevlar canoe in any gel coat color listed below for an additional \$200 (wholesale or retail):



# 🦋 TO BE CONTINUED 🦋

Have you reached the end, or is this just the beginning? A question for the ages, surely, but one only you can answer. Did you feel your heart quicken at the thought of playing in the white water? Did your mind wander at the prospect of paddling serenely on open water? Could you smell the air? Taste the freedom?

Mad River's innovations will continue to flow throughout the years as we refine conventional thinking and introduce new concepts to take you where you want to go. Wherever that is, you can feel confident in Mad River's commitment to quality design, materials and craftsmanship and content that friend Rabbit is leading the way.

All Mad River Canoes are designed and manufactured in the U.S.A. and are covered by a Limited Lifetime Warranty. Some limitations apply. Visit [www.madrivercanoe.com](http://www.madrivercanoe.com) for full details.

To see a full assortment of Mad River Canoe outfitting and accessories visit [www.harmonygear.com](http://www.harmonygear.com).

Colors may vary slightly from those shown in catalog. Color combinations (Camo) will vary from those shown in catalog and are unique for each boat we produce. Variations in color are not covered by warranty.

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