

Sneak Peak Inside MyBoatPlans



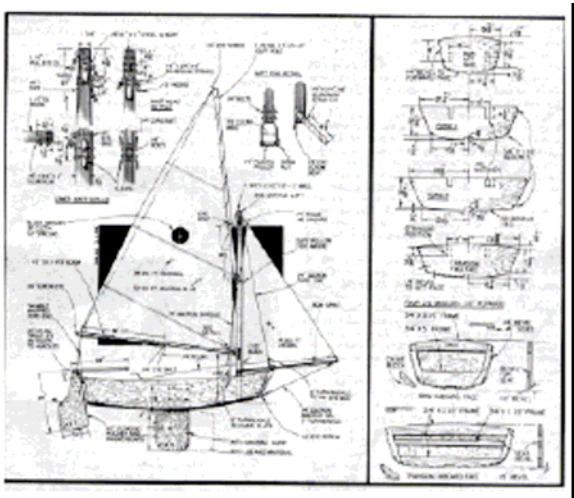
All plans are in PDF form with online download access + a custom DVD delivered to your door.

You can print out as many copies as you need on your home printer. You will need a free copy of Adobe Reader that you can download for free online.

Note: This is just a small fraction of the 518 boat plans I offer at my site.

24 Sailboat designs and plans, including:

Bannock: A versatile craft is yours when you build this sturdy pram-it can be sailed either cat-rigged or sloop-rigged, paddled with oars or powered by a small outboard motor.



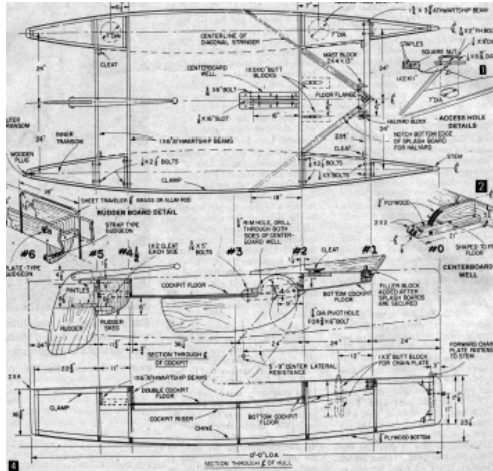
Biloxi Dinghy Sailboat Easy to build, small starter sailboat.

Blue Moon. 16-foot cruising sailboat that can be built complete on a low budget It sleeps two comfortably on 6 foot 4 inch berths, and there's sitting headroom in a cabin that has space for a chemical toilet and a small stove. Very easy to build.

Breeze-Baby 12 foot sailboat that actually planes with one person aboard. Easily to handle under her simple sail- this would make an ideal FIRST boat.

Cat's Paw Another 12 ft sailboat that is easy to build with straight side hulls. Very forgiving. Ideal boat to learn or practice sailing in because she will forgive so many mistakes.

Crescent 15 and 1/2 ft sailboat for day sailing on a small lake, river, or protected waters of a bay. Of course, day sailing doesn't mean you can't go for a moon light cruise. This boat is not equipped with a cabin, galley and bunks for overnightcruising.



Dart A fast 13-foot sailboat. As a one design, class, or general-purpose sailboat. Jib and mainsail easily handled. Points closely, foats quickly. Ideal for protected waterways. May be propelled with small outboard motors also.

Falcon is a general-purpose frisky 14 ft centerboard sailboat. It points closely and easily outdistances comparable one-design class boats. This design is for those who want the very latest and best in small sailing craft. Seats 4 persons.

Graifen Ten Sailing Pram, ideal for learning the basics of sailing, also fun for more experienced sailors.

Gypsy 24 foot long sailer, 9 foot 2 inches beam, 6000 pound displacement, and seats 3 persons. Takes a 10 - 25hp motor.

Hobby Kat Really neat catamaran that is fast. Asymmetrical hulls and special trampoline supports, the Hobby Kat can reach 20 mph.

Jamaican is a fiberglass sailboard. Lots of fun.

Manu is a speedy 30 mph planing sailboat. With load of more than five passengers, boat reacts like any conventional displacement-type sailboat. Length 20 foot with a beam of 6 foot 1 inch. Capacity 4 to 6 maximum.

Missile is a 19-foot racing sailboat. Small craft is designed for the backyard boat builder who wants competition or just plain speedy sailing at minimum cost. 50 inch beam.

Petrel is a 16 ft sailboat that can be built as a day sailor or a overnighter with cabin. It is 70 inches wide. Either model is constructed from the same basic design, and either model possesses unusual seaworthiness, stability, trim attractive lines, speed and ability to handle well on all points of sailing.

Sea Mite is a 10ft sailer, an outboarder, and an all around shoal draft utility boat for protected what fishing. . This boat has an inverted V bottom, 65-inch beam and a 3-inch draft which combines to give two slim hulls that move with the lightest of breezes.

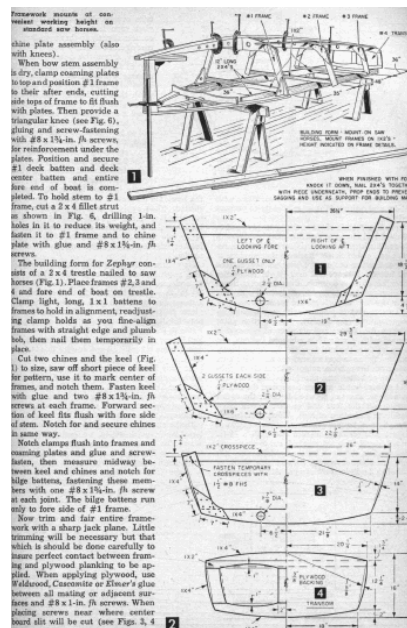
Southwind is a 22-foot dory-sharpie. This is a small, shallow-draft sailing craft, which combines sea-worthiness with economy and, with power, will make moderate speeds.

Star-Lite sporting an overall length of 27 feet 6 inches accommodates four people in 6 foot 4 inch bunks with enough space for a private head and a working galley. You can live on this boat. The Star-Lite is a proven design, improved slightly from the first ship built- the Tabu. You can build it, but it will take some work!

Tabu combines new materials with improved techniques of water dynamics, this sports sailor brings about a new concept of high in the –water speed sailing. It rides over the surface instead of forcing its way through it. Length is 18 feet with a 5 foot 8 inch beam, 2 people with a hull weight of 175 pounds.

Tern is a flying sailor. Nature foots the power bill when the boat you build carries 72 square foot of sail. It is remarkably stable, and packs as many as four persons aboard.

Zephyr is a refinement of a type of boat developed by the English for use in the rough open waters of the English Channel. Speed, durable 14-foot international dinghy class sailboat. Light weight, strong, compact hull, and maximum water line length for competition or thrilling sailing speeds of over 15 miles per hour. Will out sail boats twice her length and will keep going in rough waters. The beam is 5 feet and the weight is 165 pounds.

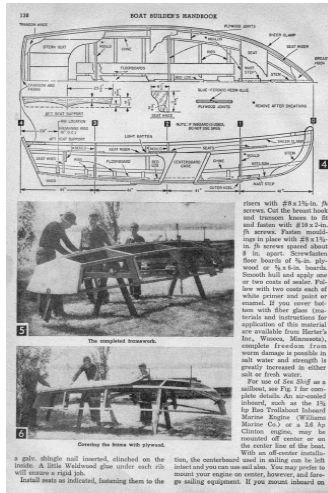


Plus 3 more sailboats!!

36 Rowboats, canoes, and kayak designs and plans, including!

- Anyone's rowboat** - Easy 12-16' rowboat
- Blue Bill Kayak** - Canoe - 13' combo kayak and canoe
- Can't Sink Dinghy** - 9 1/2' fiberglass dinghy boat
- Canvasback kayak** - Cheap little kayak
- Car Top Boat** - Lightweight rowboat
- Cheap Canoe** - 13' canoe
- Chessy rowboat** - 15' skiff, can be rowed, or driven with an outboard.
- Cork Fishing Auto topper** - 9', 52 lb rowboat.
- Folding Kayak** - Folds like a book, can be carried on the roof of your car.
- Glide Easy Canoe** - 15' Plywood Canoe
- Handy Andy Rowboat** - 10' folding boat
- Hunting Kayak** - Shallow Draft 2 seater
- Jolly Roger Boat** - Small rowboat, great project for young guys
- Jon Boat** - Flat bottom scow ideal for fishing in shallow backwaters and weeds
- Junior Dinghy** - Easy to build, all-purpose rowboat
- General Kayak** - Another folding Kayak
- King Canvasback** - Lightweight kayak

- King Fisher* - 9' Pram boat
- Little Chief Canoe* - Large Canoe, easy to build
- Multi Use Skiff* - 13 ft, 9 inch rowboat
- Northwind Kayak Boat* - 19' flat bottom cruising kayak
- Pedal Cat Water Bike* - Cruising water bike, cool!
- Pintail Duck Boat* - Lightweight little duck boat
- Plyak* - Small, plywood kayak
- Pod* - 15 ft rowboat
- Redwood Canoe* - 74 lb, 16' Canoe
- Row and Sail Dory* - Rowboat that can be sailed
- Sea Skiff* - 13' 9 in boat, that can be rowed, or powered by an inboard, or outboard
- Sea Midge* - Snug, small, 3 way pram
- Sneak Box Duck Boat* - 12ft historic Duck Boat



Plus 5 more rowboats and 10 more Utility boats!!!

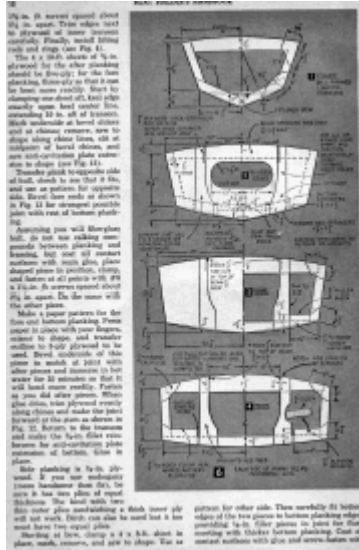
7 Runabout Inboard boat designs and plans, including:

Chum 15 footer This speedy inboard runabout is designed for a converted Jeep motor! 15 and a half ft long, 6 ft beam, and a maximum draft of 20 inches. Designed to be used with an old Marined Jeep 60 hp engine.

Large Sea Skiff A 17 ft Seabright skiff. Can go 14 mph with a 5 hp engine, hits 20 mph with a 10 hp. 5 foot beam, 900 lbs displacement.

Nancy Jane 19 footer All purpose craft designed to fulfill a great variety of uses in one boat. With a length, beam, and depth generous enough to be usable anywhere, this sea worth design provides a craft that may be equipped with a marine or converted auto engine from 15 to 100 hp.

Panther 15 footer High speed inboard runabout. Here, veritable, is a projectile for waterborne space travel, and inboard speedster with super clean and efficient running lines. With any automobile motor since the 50's, speeds of 75 mph are possible, with no sacrifice of stability.



Riveria 17 footer 6th place luxury boat designed for ski towing and all water sports is powered by your choice of 100 to 225 hp auto engines converted for marine use.

Sea Scout 14 footer Sea scout is the type of boat its name implies, a small inboard runabout with single cockpit destined for use by one to three people and for fairly high speeds with comfort not found in outboards and convenience comparable to a coupe ashore.

Small inboard boat Just the size for little kids, this midget inboard has an outboard for a power plant.

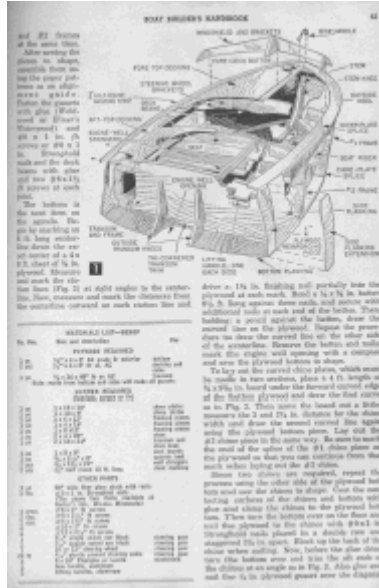
26 Runabout Outboard boat designs and plans, including:

Ace 2 seater Speedy two-cockpit runabout for towing water skiers and general family boating pleasure. 12' 4" long, 5' 9" beam, 200 lbs with all equip aboard except a motor.

All Purpose portable boat A winter eveing project for the sportsman who wants his own boat for next summer's outings. Inexpensive, easily built, a safe and satisfactory performer.

Banta 12 footer If you want a lightweight utility boat with a nice turn of speed and easy handling, build a "banta". A boat like this has a lot to recommend it, simple, inexpensive construction, a 1 man weight of less than 150 lbs, practically leak proof, she's a smooth easy sailer on any man's river.

Bebop Kids 8 footer Small runabout for youngsters. Costs almost nothing to build.



Blitzen Speedy outboard runabout for Class B racing, beveled chines for safe high speed operation. 2 hull stules for same basic design given - one for general utility, one for racing. Performs well with outboard motors of from 10 to 25 hp.

Blue Streak Prop ridin on her hydro-conic bottom, Blue Streal takes class "B" outboard motors for a merry spin in stock utility races.

Buzz A lightweight, easily handled outboard hydroplane, adapted to car top carrying, and designed for use with 5 to 10 hp outboard motors. 11' 1" long, 55" Beam, 22" depth, complete weight of 135 lbs.

Cobra 15 footer Fin Tailed outboard runabout. Used with any outboard motor from 10 hp to 50 hp, Cobra will achieve speeds of from 20 mph to 4- mph and will leave most kit or factory built boats well in its wake.

DragonFly II Her mama (Dragonfly I) was one of the speediest sweethearts of a speedboat we've ever seen. But daughter's new lines make her even speedier, and a more stable hydroplane.

Firefly You can go places in this speedy hydroplane, which is designed for the largest outboard motor available. Try your hand building her. She's guaranteed fun.

Flying Fisherman Fast outboard utility, 11 1/2 feet overall, with an easily driven hull, planked with plywood or thin cedar.

Jumping Jack General purpose small outboard runabout. Designed as a combination fold up boat and trailer. Power with outboard motors up to 5 hp. 9' 7" long, 2' depth, 3' 10.5" beam, seats 2 comfortable, and 4 rather uncomfortably.

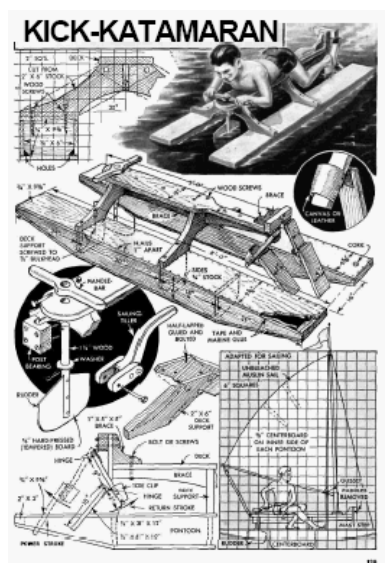
Plus 14 more:

Maximus, Merry Maid, Meteor, Mustang 10 footer, Mustang 12-14 footer, Playboy 14 footer, PM-38 13 footer, Sea Fury 15 footer, Sea King, Shore Lark 13 footer, Small Skiff, Swift Swoose, Torpedo, Victory.

12 Paddle Wheel boat designs and plans, including:

Bicycle Pedal Boat Bouyancy and speed are 2 features of this bicycle boat. It consists of 2 pontoons and an old bicycle frame. A blast!

Foot Pedal Catamaran Provides great fun to lie on the deck of this homemade catamaran, slip your feet into the toe-clips, and paddle over the lake or bay.



Kids Paddle Pusher Sturdy well designed and easily built scow for active young captains.

Marty Paddle Colorful appearance and pedal operated paddle wheels keep Marty's admirers standing in line for another free ride.

Paddle wheel bass boat Ideal craft to reach the best bass fishing areas, where they feed in shallow water among spatter docks. No propeller to foul in water weeds, and with a flat bottom and a 4 ft beam along its entire length, the draft is at a minimum.

Plus 7 more:

Basic Paddlewheel boat, Paddlewheel Peddle Boat, Paddlewheel Turtle boat, Paddlewheel Waterbug, Pedal Cat, Pogo, Show boat.

9 Novelty boat designs and plans, including:

Battle Surfboards Fun galore with 2 or more of these little naval craft with shoot balls made of cork, or discarded tennis balls or rubber balls!!!!

Cold Lightening A 100 mph Skeeter class Iceboat. Cheap! No special lumber required!

Corky A pint sized sailer for youngsters that can be built in a few evenings. Non-sinkable.

Floating Swimming Boat A floating platform that the whole family can enjoy on a calm day at the lake.

Motorized Surfboard Skim the waves in this motor drive paddle board. Loads of fun.

Pontune Your entire family can take to the water on this pontoon family boat for sun bathing, swimming, or fishing parties. Plenty of room for the BBQ grill too.

Sport Submarine Great for underwater exploration. Be the only one on your block who has one.



The Thing Unconventional looking boat. Hard to describe.

Whizz Slick looking ice yacht!

5 House boat designs and plans, including:

Bayou Belle 25 foot 8 inch scow that can be built as a houseboat, sports utility, or a fishing boat depending on your offshore pleasure. As a sports utility, she can be used for towing water skiers and for cruising. As a fishing boat she offers a stable platform with plenty of elbowroom and storage space. Lastly as a houseboat she has roomy interior accommodations for a leisurely life at sea. Beam is 8 feet with a hull depth of 38 inches. It is 1500 pounds with a capacity for an additional 3000 pounds.

Budget Houseboat Budget Houseboat is like a camper that goes on the water. Its 20 feet long with a 9 foot beam, containing 300 sq. ft. of usable floor area. This means that while she can accommodate two in outrageous comfort, she can easily take a family of four on an extended vacation and be entirely self contained. There are two full size permanent bunks in the forward section of the cabin. The dining table in the rear section of the cabin, seats four and then drops down to convert into an extra bunk. Cabin headroom is 6 feet and 2 inches and two cots can be stationed to the rear of the cabin area.

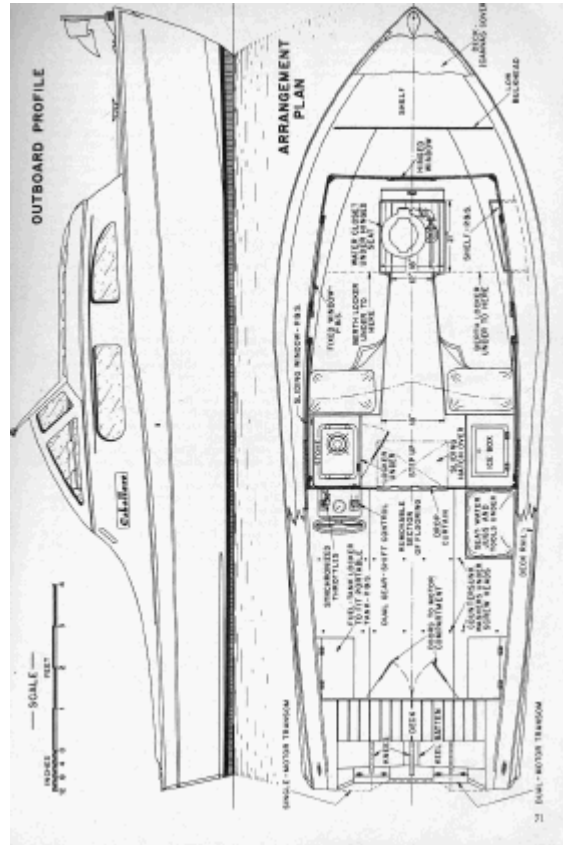
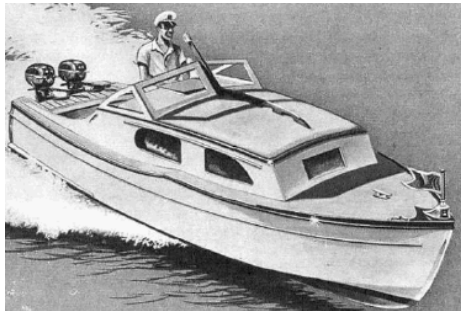
Float a Home A luxurious 21 footer that is very stable, relatively easy to build and with an interior arrangement which can be varied to suit your needs. It has a 7 foot 3 inch beam and the houseboat can be powered with up to a 120 hp motor. An extremely simple houseboat to build, it features a strong hull with a heavy keel and close-spaced framing. The craft is very stable also because of its low profile.

Parti-O Boat The Patio Craft is about 20 feet long. The plans come with a complete material list. This is an easy boat that would make a first time boat builder look like a pro.

Platform Boat You can build any kind of floating fun on top of it. Start with this easy to build pontoon platform and you'll have no trouble turning out a customized boat exactly suited to your needs. Big and roomy craft offering plenty of space. This platform boat is 16 feet long and 8 feet wide. Complete material list is also provided.

12 Cabin Cruiser boat designs and plans, including:

Caballero Caballero was designed for the amateur builder who desires a roomy, fast, and comfortable cruiser without the attendant high building and upkeep costs usually associated with inboard craft. 19 ft long with 6 1/2 ft beam.



Dolphin A 16 ft boat specially designed for those who move their craft about by trailer. The hull is light enough to be transported anywhere by trailer and the boat is of a size to be easily handled. It will accommodate two persons for extended trips or a party of 4 for day cruises and do it comfortably.

Eager Eve From 50 feet away you'd swear the Eager Eve was a luxury inboard cabin cruiser. A cover hides the outboard motor that drives this efficient cruiser fast enough to keep up with our outrun nine out of ten inboards. 18 ft long, 6' 1" Beam.

Flight The Flight is a speedy outboard runabout cruiser whose construction is brought within the scope of the amateur builder by the simple application of marine plywood planking. The benefit of plywood make this cruiser sturdy and useful for rugged cruising, fishing, inland commuting or as a workboat. 19 1/2' long, 5' 6" Beam

HaPenny A small V-bottom express cruiser that will really get up and go. Full bill of materials list provided and more.

Sea Angler The Sea Angler is a 20 foot cruiser of the deep V hull type that has gained so much popularity in recent years because of its ability to provide a high turn of speed with minimum pounding in rough seas. At that time use of longitudinal steps, or lift rails, was not understood and the engines lacked the power needed for this type of hull.

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Where joints are necessary, provide a 1/2" x 6" plywood butt strap for the joint, fastening same securely with glue and screws. Before planking, coat all mating surfaces with Jelco's Marine Glue. Lay chalk on marked area and secure with glass line, lay plywood in position and fasten with 1" #8 flathead screws spaced about 2" apart. Complete the side planking in the same way, but allow for a show flange as shown.

With hull sketched, remove it from the form, turn right side up and install after and forward deck beams and side support. Glass gunwales in place and fasten with 1/2" #8 flathead screws.

PLYWOOD	2 plies 1/2" x 6"
Batten	2 plies 1/2" x 6"
Beams	2 plies 1/2" x 6"
Cleats	2 plies 1/2" x 6"
Chine	1 ply 1/2" x 6"
Deck	1 ply 1/2" x 6"
Transom	1 ply 1/2" x 6"
Chine & Chine	1 ply 1/2" x 6" (240)
Chine	1 ply 1/2" x 6" (240)
Ball base	1 ply 1/2" x 6"
Ball base	1 ply 1/2" x 6"
Chine	1 ply 1/2" x 6"
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Construction of the hull and interior are sufficiently explained by the drawings themselves. Everything is built of 1/2" plywood over a frame, with all corners gusseted and laminated. After the hull and cabin top are completed with plywood, it may be fast to cover hull with heavy canvas or lightweight canvas laid in Jelco's canvas cement. The outer surface is also coated and painted for a more durable and attractive job.

The after end of the cabin may be left open if desired, with a canopy or hatch to provide privacy when needed. If a more finished boat is wanted, a bilhulk of 1/2" plywood may be provided at #4 frame, with a door to the cabin. When finishing has been completed, some glass should be applied on each side with 1/2" #8 flathead screws spaced about eight inches apart. If an inboard motor is used, install a rudder

PLYWOOD

GLASS FIBER REINFORCED

WEL SOUTH

PLANKING

RAFT PLAN

TYPICAL SECTION

CHINE DETAIL

BOTTOM, SIDES AND DECK PLANKING 1/2" PLYWOOD

Sea Babe Cruising comfort plus runabout speed are packing into 15 feet Sea Babe. For extended cruising along river and lake routes, winding through the many picturesque canal routes, or for short weekend hops that require frequent launching and beaching, you'll find Sea Babe easy to handle and economical to run.

Sea Craft 25ft cruiser ideal for large lakes or rivers, and fully seaworthy for offshore ocean cruising. It is a smart cabin cruiser designed with an eye towards simple, low cost construction for the inexperienced boat builder.

Sea Hawk 21 ft outboard Cabin cruiser for overnight trips on protected water or general water sports use on rivers and small lakes. May also be used for deep sea fishing on ocean waters.

...rest of hull ready when it was finished at all builders there not required...
 ...laid lightly against the edge of the bottom plating...
 ...1/2" #8 flathead screws spaced about 2" apart...
 ...the hull sketched, remove it from the form, turn right side up and install after and forward deck beams and side support...
 ...Glass gunwales in place and fasten with 1/2" #8 flathead screws...
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RAFT PLAN

TYPICAL SECTION

CHINE DETAIL

BOTTOM, SIDES AND DECK PLANKING 1/2" PLYWOOD

Sportsman 18 ft Cruiser that has a unique combination of runabout and cruiser features, but is well adapted for day cruising or short trips anywhere. Its closest approach in a similar craft ashore is the house trailer, but unlike the mode of travel, Sportsman is a self contained, seaworthy, open water crafter for weekend cruises or fishing trips that will accommodate a partner.

Sunfish The Sun Fish is an unconventional looking cruiser which weighs only 375 pounds and is powered by an outboard. It

can be transported by trailer easily and has accommodations for two persons for overnight trips.

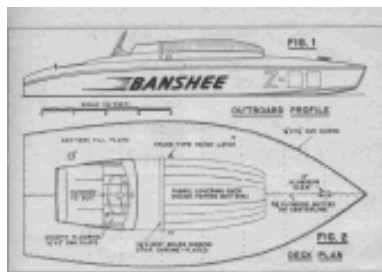
Sunapee Sturdy 22 ft cruiser. For the experienced boat builder to attempt.

19 Hydroplane Boat designs and plans

Air Marine Special This class F hydroplane is fast! Joe Michelini drove the Airmarine Special at over 85 mph in 1958 National Championships. He took first place in Class B, C, F and CU events. Not for the faint of heart.

Atomite 9 and a 1/2 ft hydroplane for high speed fun. Its fast and furious but at the same time highly maneuverable 9.5 foot outboard hydroplane, designed for outboard motors of 7.5 to 10 hp.

Banshee "Z" Class racing runabout will do about 45 mph with a 48 c.i. converted engine. 10' 6" long, 4' 8" beam



made to size with, connect these points to a smooth curve. If the curve is smooth and fair and the hull rises up gradually to a few centimeters or so, it will work out right on using a well-adjusted plane. Draw the line so it your hulls cut's long enough to draw to the full length as indicated, be sure there is at least a three-line parallel when the second half of the line is drawn. The chine and stringer lines are drawn exactly the same way.

Using the outer line as a base line, the hull's profile is read down, corresponding to the plan. The center line of the hull will be laid out between the points of intersection given on Station 2 and the transom. This center line as given is for the construction of the Chrysler engine but it is well to check your angles before the hull is bored in the base for the hull.

When these two views are completed, the hull plan is laid out. They need not be made on the same piece of plywood, but take the dimensions from the two views and make marks on the base line for the hull's length. This means that any slight variations in being are incorporated in the plan.

Take the hull of aluminum to your local lumber yard and hardware store and have it fitted. The hull and grades of wood to be used are given in the structural

quality of wood varies with the grade, be sure you get what you ask for.

The hull is held by, and the hull is covered on a two-by-six for extra-grip strength. As indicated on the hull plan, the hull is a straight line from Station 4 to the transom and all the frames are covered at right angles to the base line. Put on the stringbacks on a fairly level base, using two fairly substantial sawhorses. Put down for clearance exactly opposite the sawhorses 1 or 2 ft apart and fasten the two-by-six on edge so its upper edge has the same slope as the straight part of the hull. With a sharp pencil, describe the base line on the stringback. On this base line, carefully lay off the stations. Remember that the station lines are perpendicular to the base line, not to the hull.

Fasten the forward end of the hull, as shown in Fig. 3, and bend the transom to provide a flat landing for the bottom planking. Fasten securely along it to the stringback. With weights and blocks at each station, bend the transom and all the hull supports to the proper curve, using clamps to hold it in place. If you desire to make the work a little less glum, a good standing of the hull will do no harm.

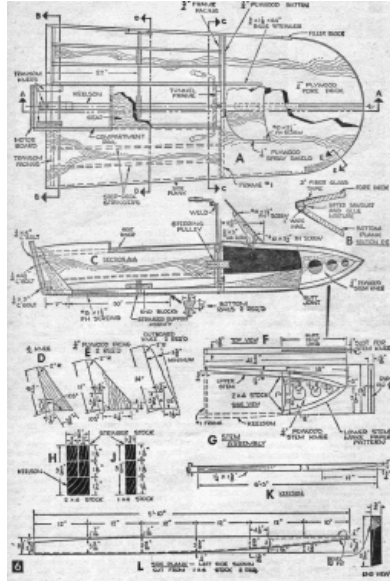
Fig. 4 shows typical frame construction. Observe that the engine strainer, base on all frames except No. 1. The depth of the bottom frame must be fitted to permit

Cab Over Hydro Originally called the X-1, this three point hydroplane has hit 75 mph. Closely resembling big Unlimited Class hydros, it can be powered by 50 to 100 hp motors.

Dingbat You can build this most-fun-per-horsepower 8 ft water scooter on Saturday and have it in the water for a full day of boating thrills on Sunday.

Doodle Bug The Doodle Bug Hydroplane is a trim, single cockpit, outboard hydroplane with a new type of convex bottom and no tripping chines which combine to produce a remarkably fast boat with excellent maneuverability.

Dragonfly The Dragonfly is a 10 ft hydroplane that is adapted to all classes of outboard motors from 4 hp row boat to motor to the largest racing engines. Streamlined in design, the constructional features are unique and present such developments as extended motor wells for quick planning action and a combination of V and convex bottom for safe and super-efficient high speed operation with low and high powered outboard motors.

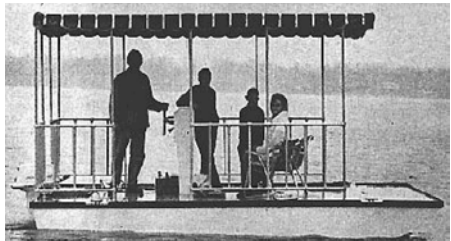
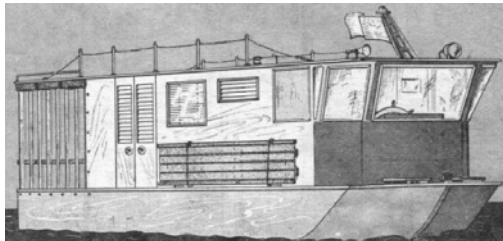
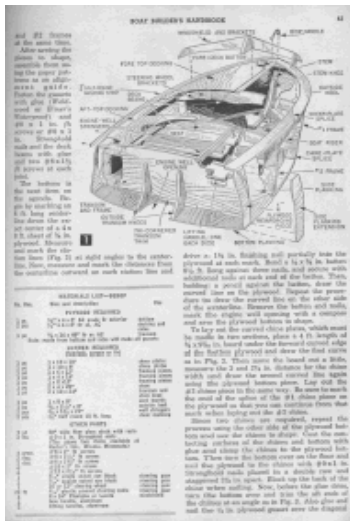
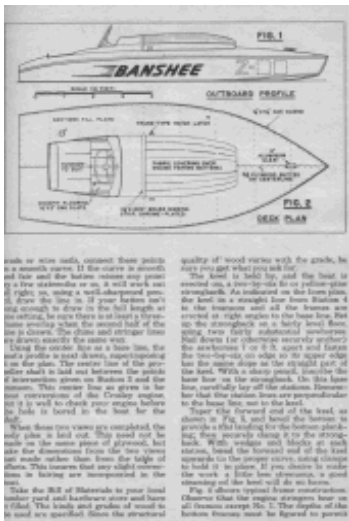
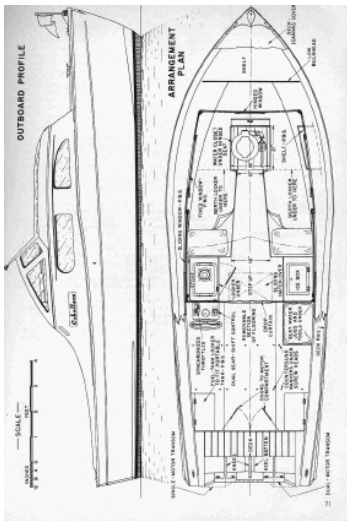
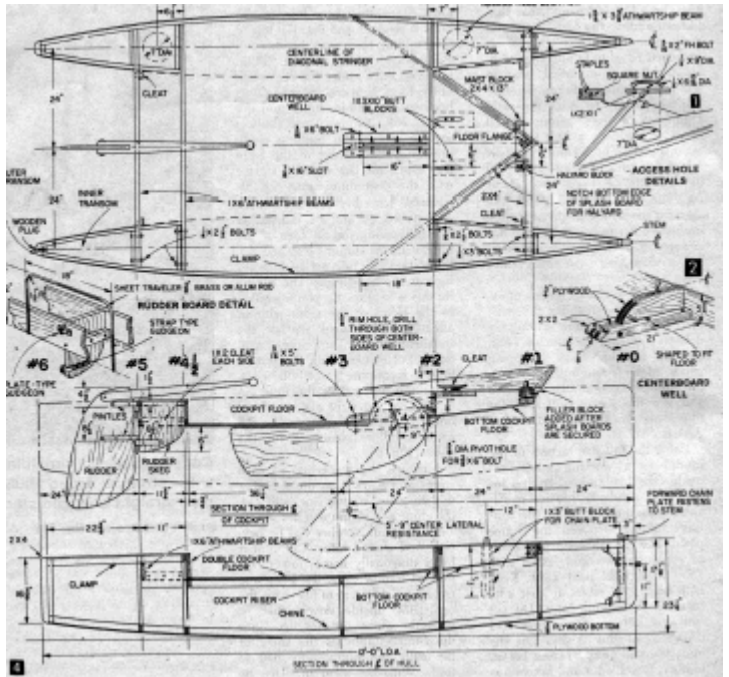
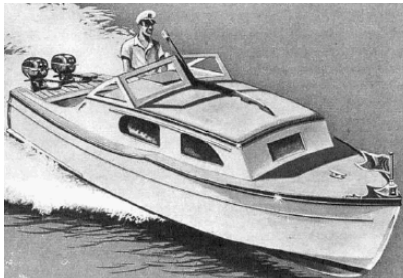
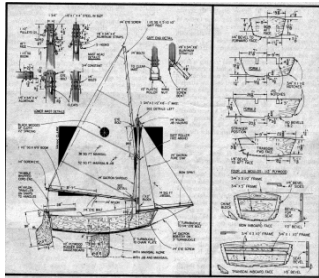


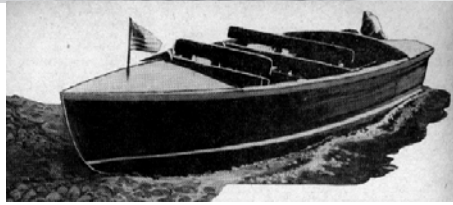
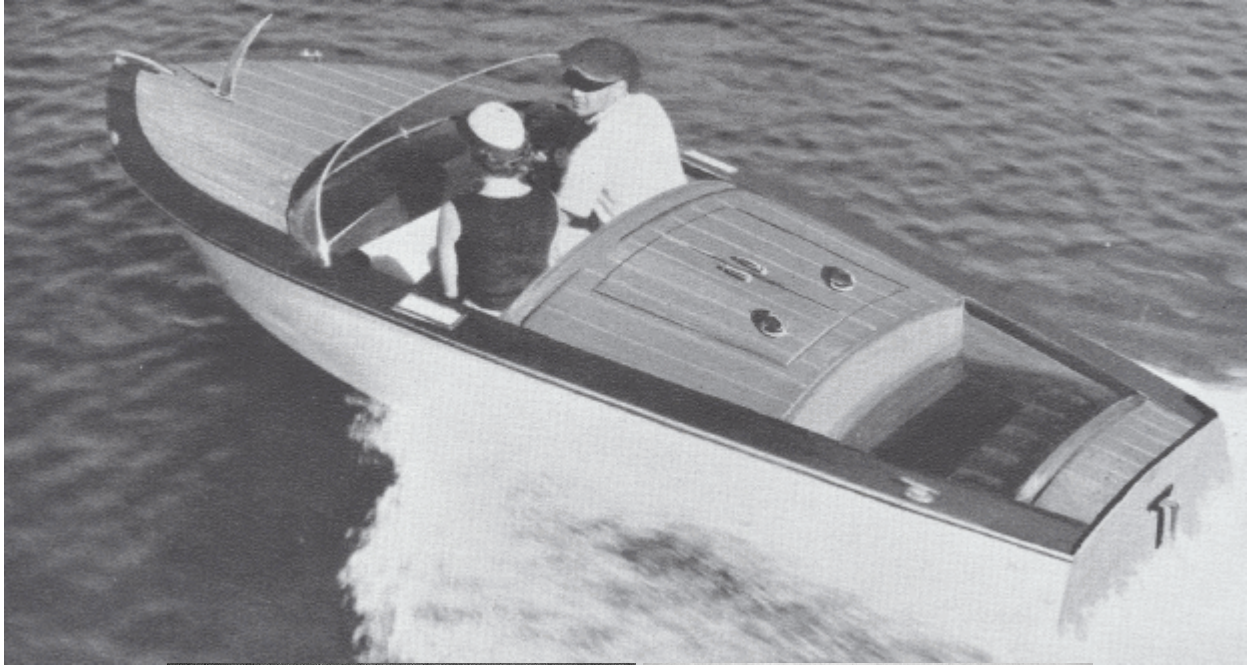
EL CTD Is a sport boat that you can build in days for very little money. It will provide you hours of safe fun for youngsters of all ages. El CTD is a mini inboard hydro that's powered with a 4 hp air cooled engine. It's top speed is about 16 mph with a 100 lb. teenager aboard. It features a "dead man's" throttle that shuts the motor off when the driver lets go of the throttle, so there's no danger if the operator falls off the boat.

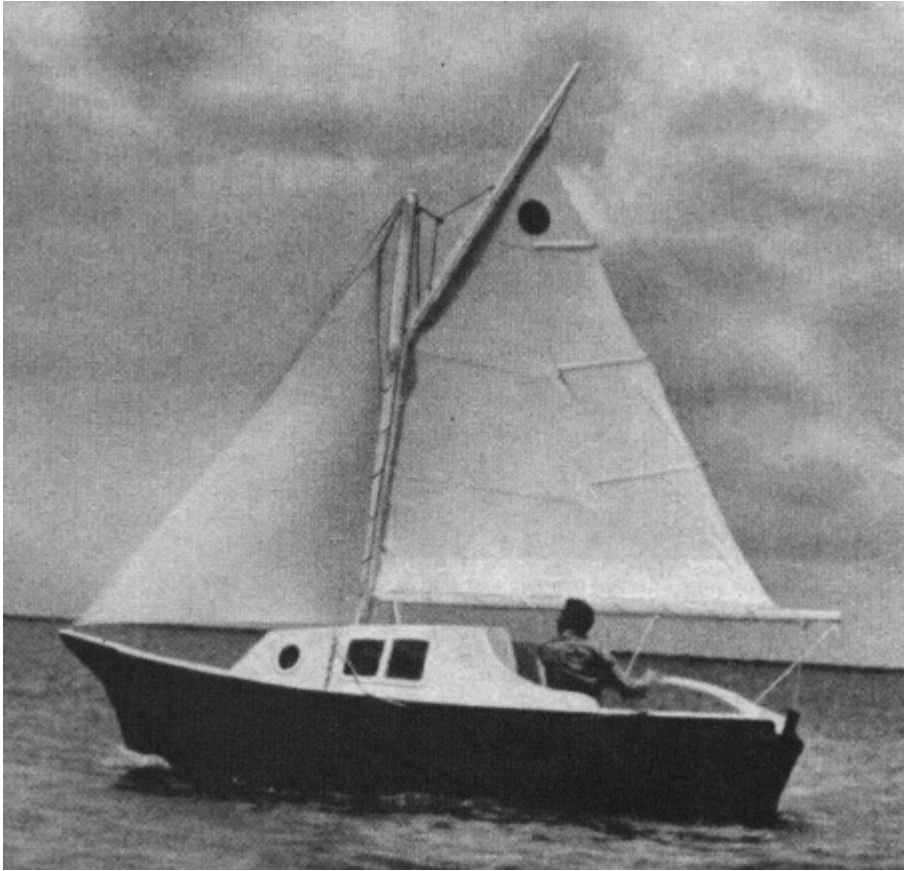
Flyer Absolute maximum speed is the cry of many race drivers. For a race they want a boat that will go fast. Sufficiently fast to win and if it will win then the other features do not matter. The 135-Class Flyer is designed to give maximum speed under normal competitive conditions. Factors of design giving straight away speed, turning ability and ability to ride rough water have been so proportioned that in an actual race a high peak of speed is reached.

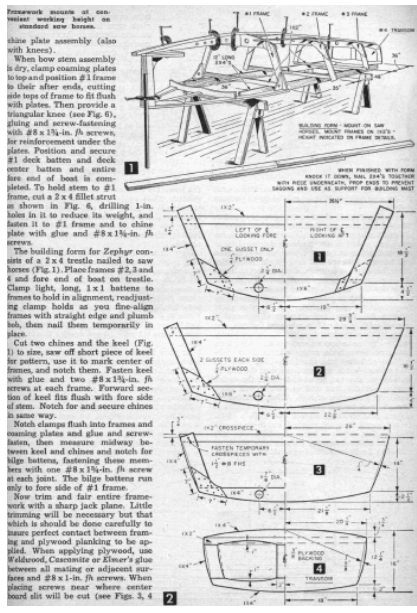
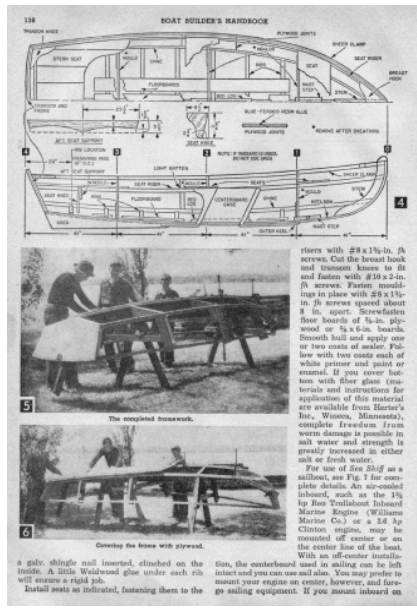
Plus 10 more unique hydroplanes:

Hornet, Jet Joe, Mini Max, Rocket, Scat Cat, Skeeter, Spit Fire, Sports Hydro Yellow Jacket and Zipper









ribs with $\#8 \times 1\frac{1}{2}$ -in. Jh screws. Cut the broad keel and transom knees to fit and fasten with $\#10 \times 2\frac{1}{2}$ -in. Jh screws. Fasten moldings in place with $\#8 \times 1\frac{1}{2}$ -in. Jh screws spaced about 8 in. apart. Screwfasten floor boards of $\frac{3}{4}$ -in. plywood or $\frac{1}{2} \times 6$ -in. boards. Smooth hull and apply one or two coats of under. Follow with two coats each of white primer and paint or enamel. If you cover bottom with fiber glass (materials and instructions for application of this material are available from Hester's Inc., Winona, Minnesota), complete freedom from water damage is possible in salt water and strength is greatly increased in either salt or fresh water.

For use of Sea Slim as a sailcloth, see Fig. 7 for complete details. An air-cooled inboard motor, such as the 18-hp Evinrude (Johnson & Johnson Marine Co.) or a 3.6-hp Clinton engine, may be mounted off center or on the center line of the boat.

With an off-center installation, the outboard used in sailing can be left inboard and you can use and also. You may prefer to mount your engine on center, however, and forego sailing equipment. If you mount inboard on

chine plate assembly (also with knees).

When bow stem assembly is dry, clamp coaming plates to top and position #1 frame in their after ends, cutting side tops of frame to fit flush with plates. Then provide a triangular knee (see Fig. 5), glue and screw-fastening with $\#8 \times 1\frac{1}{2}$ -in. Jh screws, be reinforcement under the plates. Position and secure #1 deck battens and deck, center battens and entire line end of boat is completed. To hold stem to #1 frame, cut a 2 x 4 fillet strut as shown in Fig. 6, drilling 1-in. holes in it to reduce its weight, and fasten it to #1 frame and to chine plate with glue and $\#8 \times 1\frac{1}{2}$ -in. Jh screws.

The building form for hullwork consists of a 2 x 4 trestle nailed to saw horses (Fig. 1). Place frames #2, 3 and 4 and fore end of boat on trestle. Clamp light, long 1 x 1 battens to frames to hold in alignment, readjusting clamp bolts as you fine-align frames with straight edge and plumb bob, then nail them temporarily in place.

Cut two chimes and the keel (Fig. 1) to size, saw off short piece of keel for pattern, use it to mark center of frames, and notch them. Fasten keel with glue and two $\#8 \times 1\frac{1}{2}$ -in. Jh screws at each frame. Forward sections of keel fit flush with fore side of stem. Notch for and secure chimes in same way.

Notch clamps flush into frames and coaming plates and glue and screwfasten, then measure midway between keel and chimes and notch for bilge battens, fastening these members with one $\#8 \times 1\frac{1}{2}$ -in. Jh screw at each joint. The bilge battens run only to fore side of #1 frame.

Now trim and fair entire framework with a sharp jack plane. Little trimming will be necessary but that which is should be done carefully to insure perfect contact between framing and plywood planking to be applied. When applying plywood, use Waldwood, Concrete or Klean's glue between all mating or adjacent surfaces and $\#8 \times 1\frac{1}{2}$ -in. Jh screws. When placing screws near where center board slit will be cut (see Figs. 3, 4