



Volume 13, Number 2

February 1970

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CHOLLA CHATTER
 Official Publication of the
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 P.O. Box 7171, Phoenix, Arizona 85011

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Fish Register

An appeal is made to all Cholla fishermen to help prepare a register of fish caught off Cholla. A blue "fish survey" sheet should be filled out or the following information written on the back of the pink copy of your check-out slip:

- KIND OF FISH
- NUMBER CAUGHT
- WEIGHT OR LENGTH
- WHERE CAUGHT
- ANYTHING ELSE YOU THINK OF INTEREST

Special thanks are given to the following for turning in their "Blue Slips":

- Frank & Norma 11/29/69 8 miles on 270°; 6 rock bass, 2 cochi, & 7 pinto
- F. Abram 11/29/69 1 mile W. of Pelican Point; 2 Pinto
- F. Lundgren 12/12/69 18 miles on 260°; 12 rock bass, 6 cochi, 8 pinto
- G. Palleil 12/24/69 10 miles on 240°; 2 cochi and 10 pinto

Citizens Band Radios

Monitor Channel	22
Conversation	16
Conversation	11
Conversation	9
Conversation	5

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Scuba Diving Certification Held Too Easy, Training Poor

Hospital Tribune—World Wide Report

CAMP PENDLETON, CALIF.—Stiffer requirements for scuba diver certification were urged here by James R. Stewart, diving officer of the Scripps Institution of Oceanography, University of California, San Diego.

"My feelings are that presently the basic scuba training received by the general diving public is deficient," he told a symposium, "The Role of the Naval Hospital in the Management of Trauma." A person interested in diving may find any level of scuba training under the term "basic scuba," he said, and all of them lead to issuance of basic-scuba certification.

"This certification card, once issued, has no expiration date. There are no provisions in any public certification program for recertification, thus no need for a person to maintain his proficiency and no assurance that the individual has ever had his equipment inspected or maintained."

In the usual training class offered by a dive shop there are no physical examinations, no medical evaluation requirements, and no swimming requirement, he complained, and often the psychological aspects of the sport are utterly ignored.

At least locally, Mr. Stewart noted, the majority of diving deaths are a direct result of panic in a minor emergency or an inadequate buddy and occur during the first or second dive after the completion of a course.

He continued:

"In day-to-day operation of diving programs we see a number of common minor physiological malfunctions... Most of these are due to a pressure imbalance in the ear or associated air spaces, sinus cavities, or in a face mask.

"Considering the number of man-hours of diving time, the much-discussed air

embolism or bends case is actually infrequent....

"In addition to difficulties formerly recognized as due to simple increase of external pressure, we are increasingly finding somewhat more complex cases where decongestants have been used in order to permit the diver to get down; then, under several conditions, reverse symptoms can occur....

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Paul Colorich — Jack Cameron Club Members

All people who use the radio facility at Cholla Bay should be members of the Cholla Bay Sportsman's Club. ★ ★ ★

"Other difficulties are those encountered because of the nature of the snorkel and scuba regulator as breathing devices. There is no snorkel commercially available today which can deliver the volume of air necessary to swim or work at all strenuously. Divers should be told this and how to cope with it. For various reasons, this is one of the most ignored pieces of information in public diving courses...."

Fatigue Compounded by Cold

"Other problems arise from general fatigue compounded by cold. The wet suit used by most divers now is effective if personally tailored, thus eliminating water transfer. As one descends below the thermocline, the cellular nature of the suit causes it to compress and a good deal of the thermal efficiency is lost as the diver needs it most.... Cold and fatigue underwater can lead to anything you can imagine."

Diving activities supervised by industry and educational programs, like the one he is associated with at Scripps, Mr. Stewart remarked, are "of an entirely different nature and quality than the training courses I have been talking about." Medical examinations and continuing medical supervision are understood to be fundamental to their successful operation, he said.

8/11/69

APPLICATION AND BENEFICIARY DESIGNATION Cholla Bay Sportsmans Club

NAME _____

ADDRESS _____

CITY _____ STATE _____

AMOUNT PAID \$ _____ YEARS _____

I hereby designate the following named beneficiary under CONTINENTAL CASUALTY COMPANY Policy No. SR 168504 for the Loss of Life Indemnity, subject to the conditions named in said policy: Fifty per cent (50%) to the Cholla Bay Sportsmans Club Search and Rescue Fund.

Fifty per cent (50%) to: _____

if living, otherwise to my estate.

Signed at _____ State of _____

This _____ day of _____

19 _____

Witness

Applicant

CHOLLA BAY SPORTSMEN'S CLUB

BIG 10

TYPE FISH	SIZE REQ	SIZE CAUGHT	VERIFIED BY
★ SAILFISH	ANY		
★ GROUPER	30 LBS		
★ DOLPHIN	15 LBS		
★ PINTO	15 LBS		
★ SEA TROUT	5 LBS		
★ MACKEREL	6 LBS		
★ SHARK	50 LBS		
★ PARGO	15 LBS		
★ COTCHI	5 LBS		
★ SKIPJACK	6 LBS		
★ LADYFISH	2 LBS		
★ BLACK BASS	50 LBS		
★ SARDINERO	10 LBS		

NAME

ADDRESS

★ REQUIRED FISH

★ ALTERNATE

RULES:

GOOD LUCK

1. Must check out at Radio Shack
2. Must be a club member
3. Must have BIG 10 card
4. Must be landed with rod and reel
5. 80% of weight for women

★ Mexican Pottery ★

Women's magazines sometime have articles that are informative about facts other than bed-wetting, predicting baby's sex, and, women who don't need men. At the risk of committing an act of plagiarism, we would like to re-cap an article in Good Housekeeping, November 1969 on lead poisoning due to earthenware utensils. We are sure that Dr. Thomas J. McDevitt states he is and has on many occasions carried the message to many listeners.

Dr. McDevitt, his wife and three small children were gradually dying of lead poisoning. They knew something was wrong due to their stomach disorders, tiredness all the time, inability to eat, and other effects of slow poisoning was having on their bodies. Finally his son Sean fell, causing a severe head injury. Before the operation the usual blood tests and etc. showed Sean to have a condition of severe malnutrition.

To make a very interesting article short, Dr. Tom and Bruna, his wife, searched frantically for reason behind the poisoning after tests showed this to be the cause. Finally the ceramic pitcher with the regular morning's orange juice came into focus and was determined to contain the lead. Pure lead chromate came from the pitcher when washed with acid at the laboratory.

It seems as if lead is widely used in ceramic glazes to cause the smooth surface. Sometimes when not properly applied and not fired long enough the glaze fails to seal. When acid, such as orange juice (and I might add, alcohols) is poured into this type of a surface, lead leaches into the fluid.

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PARTS AND SERVICE
SCOTT McCULLOCH

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There are apparently no import restriction or inspection; however, the article goes on to say a bad glaze cannot be detected by looking at the pottery.

The United States Pottery Association has set standards which defeat this situation here as well as Japan and some European countries. Mexico does not enforce these necessary qualifications. The article states that Dr. Evan Campbell of Los Alamos Scientific Laboratories has tested Mexican pottery and feels that there may be a good deal of lead poisoning among the Mexican people that is confused easily with malnutrition.

Finally, if such folk-crafted pottery is to be used, the lead can be washed out by:

1. First wash with soap and water and allow to dry thoroughly.
2. Then rub surface with lard and heat in a hot oven about 500 degrees for at least 30 minutes.
3. After cooling, wash inside with vinegar several times.
4. Finally, fill with vinegar and allow to stand overnight.

IMPORTANT: Do not put vinegar in the pottery during the oven treatment because this produces irritating fumes.

Thought the above might be interesting as I know many of you have your cupboards filled with both usable and beautiful Mexican pottery as we have.

So long. I'm on my way to the store for a gallon of vinegar.

-Bob and Alice Taylor

EDITOR'S NOTE: By a strange coincidence I was talking to Dr. Frederick Brady, Director of the Pima County Health Department about this very problem probably at the

very same time the above article was being written. They also had a case of lead poisoning from Mexican pottery and then rounded up twenty-two pots, etc. and had them analyzed by Dr. Crecelius, Director of the Arizona State Health Department laboratory. He found that a 5% solution of acetic acid (acid contained in vinegar) contained up to 200 parts per million of lead after being in the pot for only one hour. Subsequent washings with acetic acid resulted in similar concentrations of lead. Dr. Crecelius told me that he would only use Mexican pottery for decoration or as flower pot no matter how they were treated. He admitted, however, that, if the pots were used only with alkaline foods, there probably would be little danger of lead poisoning.

-Tom Burch

PHOENIX SHELL CLUB

The "Southwestern Malacological Society" meets the third Wednesday of every month at the Arizona State University Zoology Building Room 163 at 7:30 p. m. Next meeting will Feb. 18. Everyone interested in shells is invited to attend.

1970 MEMBERSHIP DUES

The 1970 membership dues are due and payable now and become delinquent February 1st. Don't let your insurance and Chatter subscription expire (only paid up members will get a March Chatter).

Single membership	\$10.00
Spouse	2.00
Sponsored child (under 18)	2.00
Pay at the monthly meeting or send your check to P. O. Box 7171, Phoenix, 85011 or to Gladys Price, P. O. Box 4061, Tucson 85717.	

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Childhood Lead Poisoning

A much more common source of lead poisoning than from Mexican pots is from common household paint as the following excerpt from the December 1969 newsletter of the American Public Health Association attests.

Lead poisoning is epidemic in the ghettos of our cities. In its devastating path are children with mental retardation, blindness, chronic kidney diseases, and other sequelae.

The root of this tragedy is the deteriorating and dilapidated houses of our cities, particularly those occupied by the poor. It is a tragedy that should not exist and it is completely preventable.

The American Public Health Association believes that, pending the availability of healthful housing, local and state health departments and other appropriate agencies, with adequate funding from Federal and other sources, should institute the following:

1. Mandatory testing of all ghetto housing for the presence of greater than one percent lead paint.
2. Where lead is detected, the paint should be removed or the walls covered with suitable material.
3. Appropriate mass urine testing for excessive lead content of all ghetto children between the ages of one and five years.
4. Prompt treatment and comprehensive follow-up of all detected cases.

Contribute To The Chatter

Santa Comes to Rocky Point

By Betty Munro

Santa Claus came to Rocky Point and Choya Bay. He didn't have his traditional reindeer, white beard nor fat tummy, but he was full of the spirit of Christmas. Wayne and Beulah Wood and Mel and Debbie Jarvis represented the Choya Bay Sportsmen's Club and distributed toys, fruits and candies to hundreds of children in Choya Bay and Rocky Point. The Club furnished the cases of candies and thanks to the soliciting of Harry Capen and Hal McKenzie, Goodyear and Western Auto furnished the toys. Dr. and Mrs. Lahr not only grew the fruit but they picked cases of it to send here for this occasion. In Choya Bay the gifts were given to the children from Mel's boat as they formed a line in front of the radio station. The eager children were well behaved but once they passed through the line they gave way to their emotions and ripped open the packages. In Rocky Point Santa jobs weren't that easy and they were mobbed by the children. There wasn't any way to pass out the gifts in an orderly fashion and they were forced to drive ahead of the children and toss the presents as the children chased behind. It was a lot of work and many people sacrificed their time organizing this expedition, but seeing the happy, beaming little faces was all the reward anyone could ask for.

Pics turn page
-La Voz del Desierto 12/30/69

TIDE CALENDARS

Arrangements have been made to sell the Tide Calendars at the monthly meetings of both the Phoenix and Tucson Chapters for \$1.00 each.

Don't Miss Your Meetings!

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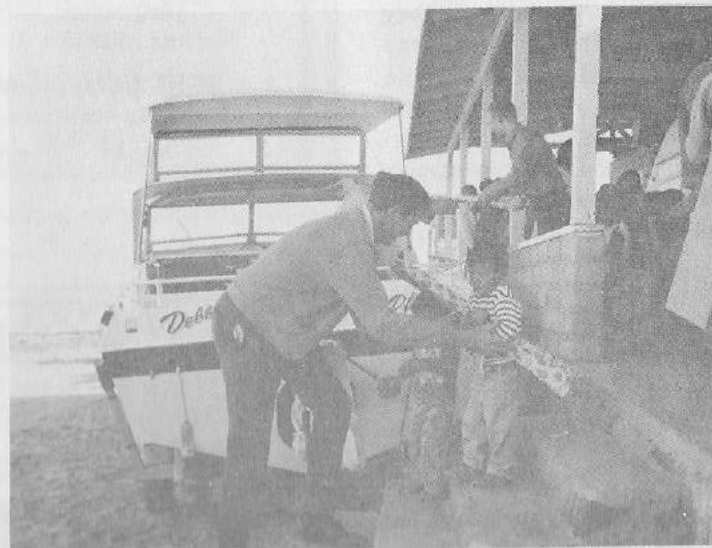


Closing Out 1969
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Santa Comes to Rocky Point

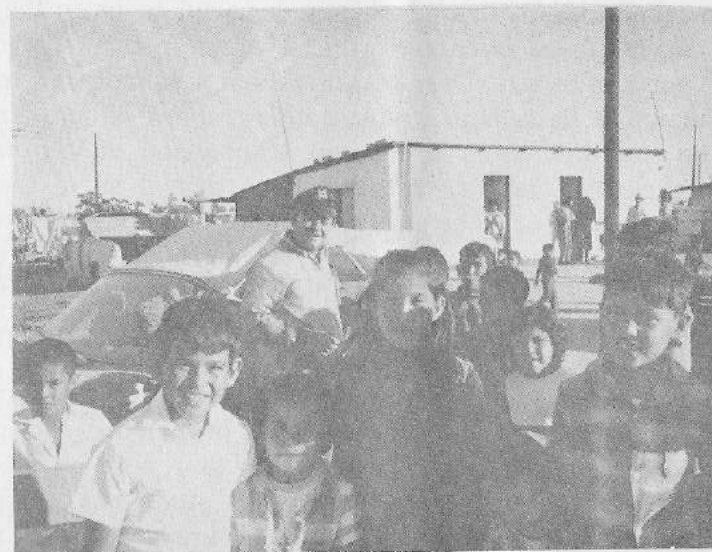
Mel Jarvis and Wayne Wood passing out presents from Mel's boat at the Club radio station. Mary and Bell Taylor help out by box under check-out sign.



Hector Munro helps smaller children down the steps.



Mel Jarvis, Wayne Wood and Betty Munro rest after all of Stana's presents are passed out.



Mel Jarvis stands beside the sand buggy used to carry Christmas stockings and presents to the children at Rocky Point. Kids in the foreground are just a few of the 400 plus who received gifts from the Club.

AMERICAN FOOD AND GAME FISHES

I recently obtained a copy of American Food and Game Fishes by David Star Jordan and Barton Warren Evermann. This is "a popular account of all the species found in America north of the equator, with keys for ready identification, life histories and methods of capture." This was first published in 1902 and was last revised in 1923. My copy is a "republishment" by Dover Pub-

lications, Inc. 180 Varick St., New York, N.Y. This is still one of the best and most complete books on the subject and I propose to reprint excerpts from this book in the Chatter starting with this issue. Don't get your hopes up too high, however, since very little was known about the Gulf of California when this book was published.

INTRODUCTION

THE aim of this book is to furnish that which well-informed men and women, and those who desire to become well informed, might wish to know of the food and game fishes which inhabit American waters. Though primarily a popular treatise, its method is in part technical, for the characters we call "technical" are the ones we can trust in distinguishing one fish or group of fishes from another. These distinctions are the ones established by Nature herself, and the study of natural objects is useful to us in the degree that we are willing to overlook artificial or temporary characters in our search for real ones. Thus to know that a salmon has red flesh and a pike white flesh is to know nothing about either salmon or pike. The real differences appear on comparison of the fins, the teeth, the skeleton, and the facts we have gained as to the origin of the different forms. The use of technical terms therefore finds its justification in that the facts they set forth would be unintelligible without them. But the technical terms used in describing a fish are no more difficult to understand than those used in describing anything else.

Head, snout, maxillary, jaw, fins, and the like are quite as simple as head, nose, arm and foot used in naming the parts of our own body; or petal, stamen, stem, leaf and pistil in describing a flower. To understand or to be able to study any subject one must necessarily know something of the language of that subject. A book which does not take for granted a certain amount of intelligence on the part of the reader has no excuse for being. This book presupposes on the part of the reader a knowledge of ordinary English, as used by Americans of fairly good education, and a willingness to make an honest effort to find out more about the food and game fishes of our country.

HOW TO IDENTIFY A FISH

It is easy to know a fish, or even a true fish; but a more interesting question is: What *kind* of a fish is it? There our difficulty begins. We can readily say that a certain specimen is a fish, or even that it is a bass, a perch, a herring, or a trout; but which particular species of the several kinds of bass, perch, herring, or trout is it? *Just what species of fish is it?* This is what every angler, every commercial fisherman, and everyone interested in nature wishes to know. When we get hold of a fish our first desire is to know its name,—*what species it is*. The vague knowledge that a form is something like a perch, a bass, or an eel will not suffice. The works devoted wholly to systematic ichthyology are in the nature of things entirely technical, and they are not easily followed by the untrained student. Though most of our fishes are not difficult of identification, many of them are. There are now known from America north of the Isthmus of Panama more than 3,300 species of fishes and fish-like vertebrates. Many of these are so closely related and the characters separating them so hard to make out, that the difficulties are real and not easily to be overcome except by one trained in the methods of systematic zoology. But fortunately such is not the case with the vast majority of fishes, particularly the food and game species. Most of these are fairly easy to identify. A little time devoted to an examination of the specimen in hand and a careful reading of the keys will enable one to locate it. It has been the aim of the authors of the present work to make a book which any angler or intelligent fisherman can use easily and with satisfaction.

In the first place, in studying a fish, there are some things regarding its anatomy which one must know. He must know the names of the fins, the parts of the mouth and other parts of the head and body; also something about the different kinds of teeth and the bones upon which they are placed, the different kinds of scales and their arrangement, and how to contrast one character with another.

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He must in some cases examine the stomach, air-bladder, pyloric cœca, gillrakers and branchiostegals. But though some of these names are long, none of them is difficult to understand and the characters are usually easy to make out.

In the accompanying drawing of a whitefish the important parts of the external anatomy are indicated by name. The whitefish will serve as a type of the great group of soft-rayed fishes to which belong many of the most important families of our game and food fishes.

And the small-mouth black bass, of which a drawing is here given, will answer the same purpose for the spiny-rayed fishes, a still larger and, in many respects, more important group.

With the aid of these two figures one can easily learn about all the external anatomical or other characters used in the present work in the identification of fishes.

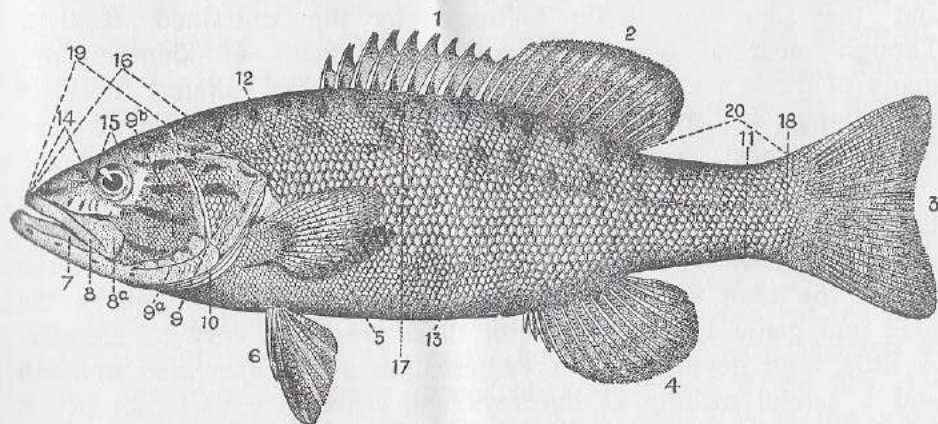


FIGURE OF A SMALL-MOUTH BLACK BASS SHOWING THE LOCATION OF PARTS USUALLY REFERRED TO IN DESCRIPTIONS OF SPINY-RAYED FISHES.

- | | | |
|---------------------------------|---|----------------------------------|
| 1. Spiny portion of dorsal fin. | 9. Opercle. | 14. Snout. |
| 2. Soft portion of dorsal fin. | 9a. Subopercle. | 15. Eye. |
| 3. Caudal fin. | 9b. Cheek and Preopercle. | 16. Head. |
| 4. Anal fin. | 10. Branchiostegal rays. | 17. Depth. |
| 5. Pectoral fin. | 11. Depth of Caudal peduncle. | 18. End of last caudal vertebra. |
| 6. Ventral fin. | 12. Lateral line. | 19. Distance from snout to nape. |
| 7. Mandible or lower jaw. | 13. Series of scales counted from front of anal fin upward and forward to lateral line. | 20. Caudal peduncle. |
| 8. Premaxillary. | | |
| 8a. Maxillary. | | |

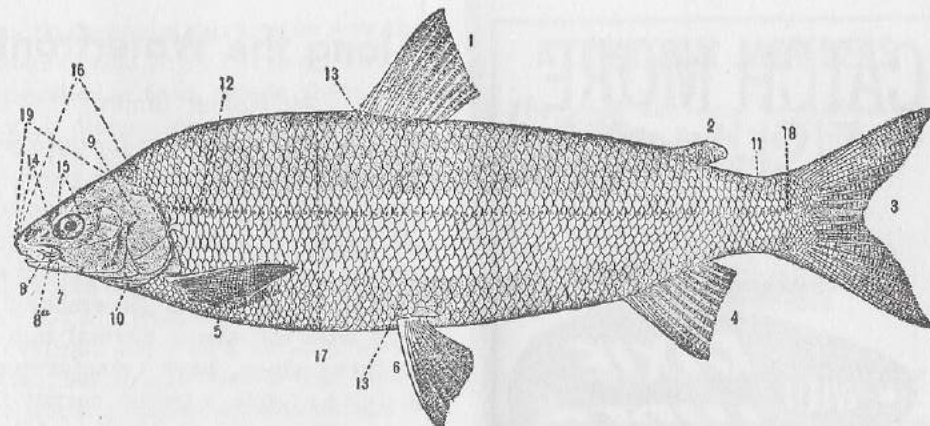


FIGURE OF A WHITEFISH SHOWING THE LOCATION OF PARTS USUALLY REFERRED TO IN DESCRIPTIONS.

- | | | |
|-----------------------------|---|---|
| 1. Dorsal fin. | 8a. Supplemental maxillary. | 14. Snout. |
| 2. Adipose fin. | 9. Opercle. | 15. Eye. |
| 3. Caudal fin. | 10. Branchiostegals. | 16. Head. |
| 4. Anal fin. | 11. Caudal peduncle. | 17. Depth. |
| 5. Pectoral fin. | 12. Lateral line. | 18. Base of Caudal. |
| 6. Ventral fin. | 13. Series of crosswise scales usually counted. | 19. Distance from snout to nape or occiput. |
| 7. Lower jaw, or mandible. | | |
| 8. Upper jaw, or maxillary. | | |

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Along the Waterfront

By Homer Smith

Although the Northwest for the past month has been battered with storms out of the gulf of Alaska--seven to date--it was not until December 28 that one reached Cholla. We had a 24 hour steady rain on December 3, which with the above normal temperatures since, have transformed the desert into a green carpet of grass. The good showers of the 28th, will almost certainly assure a season of wild flowers, come February. The streets for the restricted residential development south of Penasco are approaching completion. The paving is from estuary marl, a material, largely skeletal lime from sea life--both cheap and plentiful--but taken from the surface contains too much vegetable matter to be satisfactory. From about 8 inches on down is best. Several buildings are under construction. The development extends from just below the experimental desalting plant to the first estuary. It is bounded on the east by a tidal arm of the estuary, and of course, on the west by the beach. It is less than three miles from Peñasco on a marl-paved road.

Dr. Burch's excellent article in the October Chatter relative to the proposed upper Gulf nuclear desalting plant, and his summation in the last paragraph in particular, is something that is of vital concern, not only to the sportsman and conservationist, but to every resident of SW Arizona, NW Sonora and NE Baja, California.

Back in the 20's when Don Scott (our own same Cholla Bay pioneer)

was doing aerial survey (he was the father of that discipline) for the watershed of Lake Meade, there was much discussion among engineers as to the volume of water that would be lost through evaporation when the entire Colorado development was complete. At that early date not too much was known about the combined factors of temperature, humidity, elevation, and wind velocity would have, but it was known that under the worst possible conditions, nearly an inch a day is lost. Projecting these figures to the completed river system came up with the startling news that little water would be left for irrigation and urban use! At this point the meteorologists came to our rescue with the theory that, due to the normal summer (highest evaporation) weather and wind pattern, much of this water would be reprecipitated onto the watershed. Since there was no salineological engineers around at the time to get in the act, nothing was said about what the likely salt content of the water would be by the time it reached the Imperial Valley, Yuma, Wellton-Mohawk, and the fields of N. BC and Sonora.

We all know what is happening! And full development is many years in the future. Lake Powell itself, when full will have thrice its present surface area. Rain water has two peculiarities: it picks up salt, of which there is plenty on the Colorado Plate, when washing down overland; when it evaporates it leaves the salt behind.

Most everyone knows that the farther north one goes the less mineral is found in streams--unless of glacial origin--even the ocean water at 70°N latitude is almost drinkable.

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Preliminary studies have been made of a gigantic international water-power grid taking tributary water out of northern river systems such as the Frazer, Mackenzie, and Yukon, with power-storage dams at considerable elevation, thereby developing a by-product of power--instead of energy expansion--and transmission largely by open con-

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duit and tunnel would dump large quantities of sweet water into our already existing systems like the Salt, the Colorado and Rio Grande, tripling or quadrupling their power and irrigation potential. The northward march of the salt-front would not only be halted but repulsed. The building of the proposed nuclear powered desalting plant will only hasten the conversion of the area into a salt waste.

The Volga River in Europe, with its succession of power dams, impounding cesspools of industrial waste back of them, and the resultant extermination of fisheries in the Caspian Sea, into which it flows, is a glowing example of what we can expect here. This is one man's opinion.



French-Fried Shrimp

1 1/2 lbs. shrimp, fresh or frozen
2 eggs, beaten
1 teaspoon salt
1/2 cup flour
1/2 cup dry bread crumbs

Peel shrimp, remove the sand veins. Wash. Combine egg and salt. Dip each shrimp in egg, and roll in flour and crumb mixture. Fry in deep fat 350 F for 2 to 3 minutes or until golden brown. Drain on absorbent paper. Serve with tartar sauce.

Published Courtesy of
The National Fisherman.

THERMAL AQUACULTURE

In the October 1969 issue of the Chatter I had an article on "The Environmental Impact of Brine Effluents on the Gulf of California" which suggested that the proposed atomic desalination plant might damage the fauna and flora of the upper Gulf. I thought that the Chatter readers would be interested in an article in September-October 1969 issue of the Sea Frontiers which described experiments being conducted in Scotland in which the heated water from an atomic electric generating plant is used to lengthen the annual growing period of cultured fish and thus reduce the time taken to reach marketable size. They feel that they have demonstrated the feasibility of using discharge from atomic power plants for "aquaculture" and consider that other species of fish, shellfish and possibly commercially needed algae may all prove possible in culture in tanks, ponds or open lagoons around a power plant outfall. They caution, however, that ideal proposals have little chance to materialize unless aquaculture is considered at the very earliest stages of power plant designing. They also stress that basic research into the design and potential of both open and closed outlet systems, is needed.

The article concluded that "aquaculture, like modern agriculture, manipulates an environment for the benefit of man. Should it develop to such an advanced level that the use of algicides, pesticides and antibiotics become commonplace, then it may begin to defeat its own purpose. The new technology must look to agriculture to guide and warn us as well as to teach." -Tom Burch

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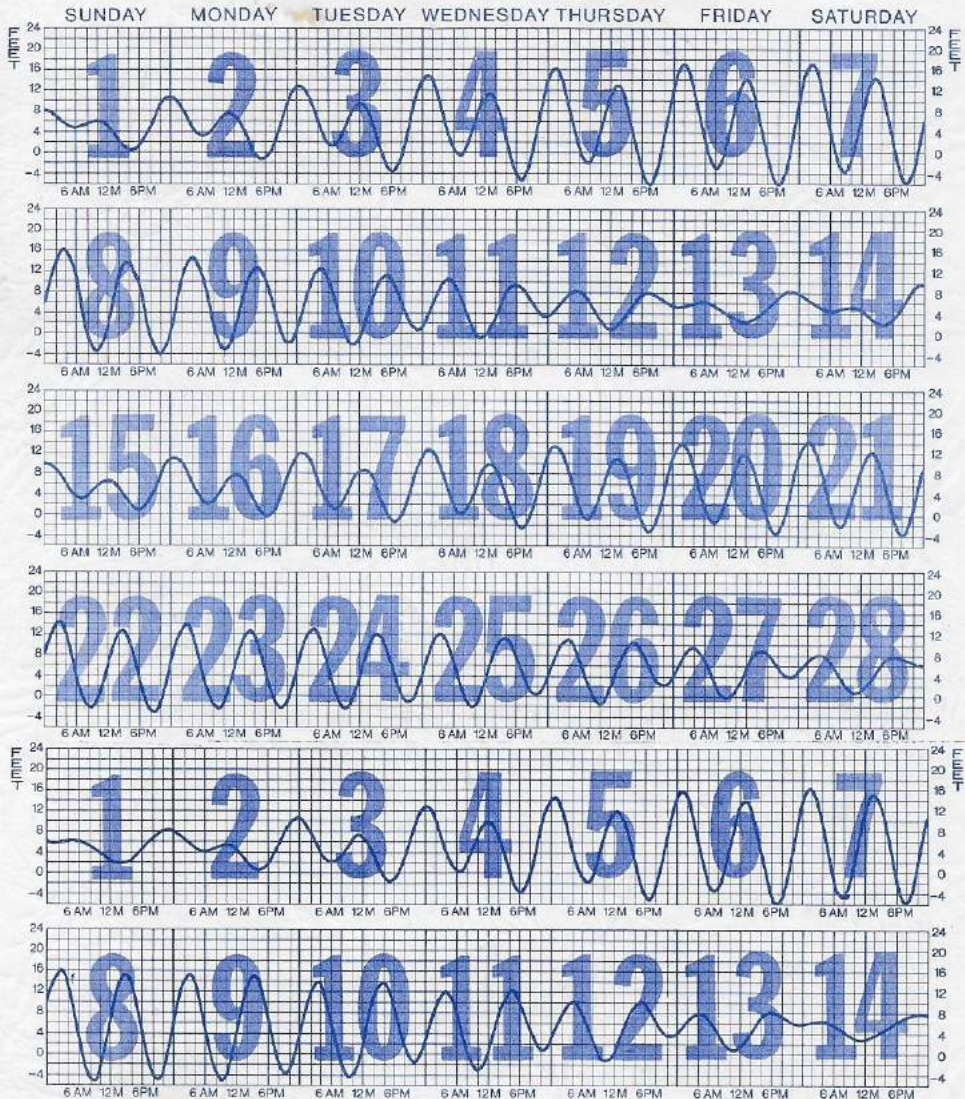
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