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# N.G.L.S.



JOURNAL OF  
THE NEWCASTLE GUPPY  
AND LIVEBEARER SOCIETY

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WHEN IT COMES TO THE OPEN SHOW, IT'S ALWAYS HARD TO KNOW WHERE TO START, AS WE BEGAN MAKING PREPARATIONS 12 MONTHS AGO, AND I THINK IF IT HAD GONE ON ANOTHER WEEK I WOULD HAVE BEEN A NERVOUS WRECK. LIKE ALL WELL MADE PLANS, THINGS CAN GO WRONG AND THIS YEAR WAS NO EXCEPTION. FIRST WE HAD TO GET FISH OUT OF NEWCASTLE AIRPORT, WHICH WAS NO NEAR FEAT, ESPECIALLY WITH NEW COMMON MARKET RULES WHICH SAY YOU HAVE TO HAVE A CERTIFICATE OF HEALTH, AS WELL AS AN IMPORT LICENSE, HOWEVER, WITH THE HELP OF OUR PRESIDENT, GORDON MARTIN, AND A GENTLEMAN FROM THE R.S.P.C.A., WE EVENTUALLY SUCCEEDED IN GETTING CLEARANCE. MEANWHILE, RON DAILY AND MYSELF WERE ON OUR WAY TO PRESTWICK AIRPORT IN SCOTLAND, TO COLLECT FISH SENT OVER FROM MR. BRIAN BAILEY OF AMERICA. ALTHOUGH THE JOURNEY UP THE WEST COAST OF SCOTLAND MUST RANK AS ONE OF THE MOST BEAUTIFUL AREAS IN THE BRITISH ISLES, THE ROADS ARE NOT MEANT FOR PEOPLE WHO WANT TO GET FROM A TO B AS QUICKLY AS POSSIBLE. (THERE WAS SNOW ON THEM THAR HILLS!) HOWEVER WE EVENTUALLY ARRIVED ONLY TO BE TOLD THAT THE 4-30 FLIGHT HAD BEEN DELAYED FOR 3 HOURS, AND UNFORTUNATELY WHEN IT DID ARRIVE, THE FISH WERE NOT ON BOARD, SO WE HANG AROUND UNTIL 3-00 PM, MAKING INQUIRIES BEFORE EVENTUALLY DECIDING TO HEAD FOR HOME, AS IT IS APPROXIMATELY A 5 HOUR JOURNEY. LATER WE HEARD THAT THE FISH HAD ARRIVED ON THE 4-30 FLIGHT THE FOLLOWING DAY, AFTER INCONVENIENCY BEING HELD OVER FOR 24 HOURS IN CHICAGO, BUT BY THIS TIME, UNFORTUNATELY, ALL THE FISH WERE EITHER DEAD OR DYING. YOU CAN IMAGINE HOW WE FELT, WE WERE BEGINNING TO THINK SOMETHING UP THAT WOULDN'T LIKE US ANYMORE.

ON SATURDAY NIGHT OUR FIRST GUESTS ARRIVED FOR THE EVENING, IVAN DIBBLE AND DON KENWOOD, PLUS A CAR LOAD OF FISH, SO MY WIFE AND I SPENT AN ENJOYABLE EVENING HAVING A GOOD OLD NATTER ABOUT LIVEBEARERS, PUNCTUATED NOW AND AGAIN BY THE ODD BOTTLE OF NEWCASTLE BROWN ALE. THE NEXT MORNING SAW THE ARRIVAL OF BOB PURDY AND HIS PARTY FROM WALES, SO AFTER A RATHER CROWDED BREAKFAST WE BEGAN TO GET READY FOR THE SHOW.

WHEN BEVING STARTED IT WASN'T LONG BEFORE WE REALISED THAT PEOPLE AND FISH WERE ARRIVING FROM ALL OVER THE COUNTRY, SO IF ANYONE TELLS YOU THERE IS NO INTEREST IN LIVEBEARERS, DON'T YOU BELIEVE THEM, ALMOST EVERY VARIETY OF LIVEBEARER IN THE COUNTRY WAS REPRESENTED, AND WE SOON HAD OUR JUDGES LOOKING RATHER PUZZLED AT THE MORE UNUSUAL VARIETIES. AT THIS POINT WE THOUGHT THAT AT LEAST NOTHING ELSE COULD GO WRONG UNTIL WE WERE INFORMED BY OUR FRIENDLY CARETAKER THAT WE HAD TO BE OUT OF THE HILL BY 5-30 PM AND TO CAP IT ALL, SAM CROFT, SECRETARY OF THE FANCY GUPPY ASS., WHO HAD COME TO JUDGE THE GUPPIES FOR US, CAME IN WITH THE NEWS THAT HIS CAR HAD BROKEN DOWN OUTSIDE, SO WITH THE HELP OF BOB PURDY AND A GENTLEMAN FROM THE A.A., THEY SET TO TO REPLACE A BROKEN WATER PUMP. (INCIDENTALLY, DID YOU KNOW THAT SAM CROFT GAVE UP WITH TWO OF THE BIGGEST ALSATIANS YOU HAVE EVER SEEN? MAYBE HE'D HEARD OF THE NEW F.B.A.S. RULES ON THE HARRASSMENT OF JUDGES, AND HERE AND NOW I WOULD LIKE TO CATEGORICALLY STATE THERE IS ABSOLUTELY NO TRUTH IN THE VICIOUS RUMOUR GOING AROUND THAT HE FEEDS HIS DOGS ON F.B.A. JUDGES WHO DOWNPOINT HIS FISH, BECAUSE WE KNOW FOR A FACT HE USES THEM TO TEND HIS CAR DOWN THE MOTORWAY WHEN IT BREAKS DOWN). SERIOUSLY THOUGH, I MUST EXPRESS MY THANKS TO SAM AND ALL THE JUDGES, (GLIFF PUCK, BILL CONLAN, KEVIN GREENLEY AND DENIS KEIGHTLEY) WHO DID A MARVELLOUS JOB, ALSO MY THANKS MUST GO TO THE WIVES AND FRIENDS WHO CAME ALONG TO HELP WITH THE CATERING, ALSO TO EVERYONE WHO HELPED BY SHOWING THEIR FISH, ESPECIALLY THE GERMAN GUPPY FEDERATION FOR THEIR FINE ENTRY OF 25 SETS OF THREE MATCHED MALES. I'M ONLY SORRY I COULDN'T GET ROUND TO TALK TO ALL OUR MEMBERS WHO MADE THE JOURNEY TO BE THERE, I'M AFRAID IT WOULD HAVE BEEN AN IMPOSSIBLE TASK, I ONLY HOPE EVERYONE WAS HAPPY WITH THE RESULTS, I KNOW I WAS EXTREMELY PROUD OF OUR OWN SOCIETY, WHO DID EXTREMELY WELL, AND AS YOU WILL SEE FROM THE RESULTS NOT ALL OUR MEMBERS SHOWED FOR THE N.G.L.S., SO IT'S EVEN BETTER THAN IT LOOKS ON PAPER AND HERE I MUST MENTION MR. GORDON MARTIN, WHO DID 'BEST IN SHOW' WITH A MAGNIFICENT MALE BLACK BAITFIN MOLLY, AND MR. RON HILL, WHO TOOK 3 FIRTS, 2 SECONDS, 1 THIRD AND 1 FOURTH, ALL IN THE GUPPY CLASSES.

NOW YOU MIGHT THINK THAT THIS IS THE END OF THIS SAGA, HOWEVER, ON THE MORNING AFTER THE SHOW WE RECEIVED A BOX OF FISH FROM HERR ENTLINGER OF THE GERMAN LIVEBEARER ASS. FOR THE SHOW.

I THINK I'LL GO AND LIE DOWN NOW, IF I CAN FIND A TRANQUILLISER

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LIVEBEARER CATASTROPHE

BY DOUG RENTON.  
N.G.L.S.

ALTHOUGH MOST PEOPLE WILL HAVE HEARD OF THE BAD WINTER IN FLORIDA, FEW PEOPLE WILL HAVE REALISED JUST HOW BIG AN EFFECT THIS HAS HAD ON THE TROPICAL FISH INDUSTRY. WHEN YOU CONSIDER THAT LAST YEAR THE FLORIDA FISH FARMS HAD TOTAL SALES OF 180 MILLION DOLLARS YOU BEGIN TO REALISE THAT THE LOW TEMPERATURES ARE A MAJOR CATASTROPHE, FOR 70 - 90 PERCENT OF THE LIVEBEARERS HAVE BEEN WIPED OUT ALONG WITH MANY EGGLAYERS, THE TEMPERATURES, WELL INTO MARCH, DID NOT RISE ABOVE 50 - 55 FAHREHIT, AND THE HARDEST HIT WERE THE POND RAISED GUPPIES. MR. ROSS SOOLOS, A WELL KNOWN FLORIDA FISH FARMER, HAS BEEN QUOTED IN THE AMERICAN TRADERS JOURNAL AS SAYING, "THERE ISN'T A COMMON CURRY ALIVE WITHIN A HUNDRED MILES OF TAMPA, PLUS LARGE NUMBERS OF PLATTIES, SWORDS, MOLLIES AND OTHER FISH HAVE ALSO BEEN AFFECTED". A TYPICAL EXAMPLE IS WAYWOOD FARMS WHO LOST FIVE PONDS OF GUPPIES, THREE OF MOLLIES AND FIVE OTHER PONDS OF EGGLAYERS. ANOTHER PROBLEM ADDING TO THE FARMERS HEADACHES IS THAT SWARMS OF PREDATORS WHO NORMALLY FEED ON THE WILD GAME FISH, WHICH HAVE ALSO BEEN AFFECTED BY THE COLD WEATHER, ARE MOVING INTO THE FISH FARMS. ONE FARMER REPORTED A WHOLE SECTION OF HIS FARM TORN UP BY OTTERS, AND FROM TAMPA TO MIAMI, REPORTS OF HUGE LOSSES TO HERONS, TURTLES AND OTHER ANIMALS ARE COMING IN. A FURTHER PROBLEM IS THAT OF CRAYFISH. THE NORMAL METHOD OF CLEARING THESE PESTS AND OTHER AQUATIC PARASITES IS THE USE OF CHEMICALS, BUT WITH THE FEW EXISTING FISH IN A WEAKENED CONDITION, FARMERS DARE NOT RISK ADDING ANYTHING TO THE WATER, AND BEFORE ANY OF THE PONDS CAN BE CLEARED, THE TEMPERATURE WILL HAVE TO RISE QUITE A CONSIDERABLE AMOUNT. SOME FARMERS HAVE SHIPPED NOTHING SINCE THE FREEZE BEGAN, AND CANNOT EVEN COVER OPERATING COSTS AND THE EFFECTS ON THE MARKET IN TERMS OF QUALITY AND QUANTITY WILL BE FELT FOR MONTHS TO COME, AS NORMAL PROCEDURES INVOLVE THE USE OF SPECIAL BREEDING AND SIZING PONDS. SINCE LIVEBEARERS BREED SOMEWHAT CONTINUOUSLY, FARMERS KEEP SPECIAL PONDS WHERE PRIME FISH ARE MATED, BUT WHEN SHORTAGES OCCUR, SMALLER FISH ARE REMOVED FROM THESE PONDS AND PLACED IN SIZING PONDS FOR RAPID GROWTH, BUT BECAUSE LIVEBEARERS HAVE BEEN HIT THE HARDEST, STOCKS ARE DOWN AND FARMERS CAN NO LONGER OPERATE A TWO STAGE SYSTEM THIS YEAR AS EVERY AVAILABLE FISH WILL BE NEEDED FOR BREEDING AND IT WILL TAKE GENERATIONS TO HAVE ENOUGH WORTH MARKETING. SOME FARMERS ARE SHIFTING THEIR PRODUCTION TO EGGLAYERS AS THIS OFFERS A BETTER OPPORTUNITY FOR A QUICK RETURN INTO THE MARKET, SO ON THE WHOLE, IT LOOKS AS IF THERE WILL BE VERY FEW, IF ANY, FLORIDA BRED LIVEBEARERS AVAILABLE IN OUR SHOPS FOR SOME TIME TO COME.

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WE WISH TO ANNOUNCE THE PROPOSED ORGANISATION OF TWO AREA GROUPS OF OUR SOCIETY, ONE IN LONDON AND THE OTHER IN THE BRISTOL AREA. IF YOU LIVE IN EITHER OF THESE AREAS, AND ARE INTERESTED IN LEARNING MORE ABOUT THE PROPOSED SCHEMES, PLEASE CONTACT:-

MR. I.H. DIDDLE,  
11, STROSE ROAD,  
CLEVEDON,  
AVON,  
SS21 6NQ

MR. T. MUDLEY,  
25, COPPETTS CLOSE,  
FINCHLEY,  
LONDON. N12

PLEASE ENCLOSE A STAMPED, ADDRESSED ENVELOPE

OPEN SHOW RESULTS.

SPECIAL CLASS - THREE MATCHED MALES.

1ST	MR. KANE.	KIRKALDY	70 PTS.
2ND	HERR RUMCK.	D.G.F.	69 PTS.
3RD	HERR THOMAS.	D.G.F.	68½ PTS.
4TH	HERR BRICHET	D.G.F.	67 PTS.

MALE BROADTAIL GUPPY

1ST	MR. SOPPITT.	HOUGHTON & DISTRICT.	79 PTS.
2ND	MR. SOPPITT.	" "	78 PTS.
3RD	MR. SOPPITT.	" "	77 PTS.
4TH	MR. HILL.	N.G.L.S.	75 PTS.

MALE NARROWTAIL GUPPY

1ST	MR. HILL.	N.G.L.S.	77 PTS.
2ND.	MR. HILL.	"	75 PTS.
3RD.	MR. HILL.	"	74 PTS.
4TH	MR. CLEGG.	"	71 PTS.

FEMALE GUPPY

1ST	MR. MAYO.	N.G.L.S.	78 PTS.
2ND	MR. HORSEFIELD.	KILLINGWORTH A.S.	75 PTS.
3RD	MR. THOMPSON.	N.T.F.S.	68 PTS.
4TH	MR. PURDY	N.G.L.S.	65 PTS.

BREEDING PAIRS GUPPY

1ST	MR. HILL.	N.G.L.S.	80 PTS.
2ND	MR. PURDY.	"	69 PTS.
3RD	MR. MAYO.	"	68 PTS.

BREEDERS CLASS GUPPY

1ST	MR. HILL.	N.G.L.S.	78 PTS.
2ND	MR. HILL.	"	76 PTS.
3RD	MR. KIRKUP. (	MOUNT PLEASANT A.S.	75 PTS.
4TH	MR. ARCHBOLD.	INDEPENDANT	67 PTS.

MALE XIPH. HELLER!

1ST	MR. THOMPSON.	MILLSEND.	70½ PTS.
2ND	MR. MARSHALL.	N.T.F.S.	69½ PTS.
3RD	MR. THOMPSON.	MILLSEND.	62½ PTS.

FEMALE XIPH. HELLER!

1ST	MR. GLEDHILL.	REDCAR	60 PTS.
2ND	MR & MRS KNIBBS	STOCKTON	64 PTS.

BREEDING PAIRS XIPH. HELLER!

1ST	MR. MARSHALL.	N.T.F.S.	60 PTS.
2ND	MR. THOMPSON.	MILLSEND.	60 PTS.

BREEDING CLASS XIPH. HELLER!

1ST	MR. SOPPITT.	HOUGHTON & DISTRICT.	73½ PTS
2nd	MR. MARSHALL.	N.G.L.S.	75 PTS
3rd	MR. KIRKUP.	MOUNT PLEASANT A.S.	65 PTS



MALE XIPH. MACULATUS & VARIATUS.

1ST	MR. LEARROYD.	N.G.L.S.	70 PTS.
2ND	MR. MARTIN.	"	65 PTS.
3RD	MR. DORRIE.	PRIORY.	64 pts.
4TH	MR. ROGAN.	KILLINGMORTH A.S.	62 PTS.

FEMALE XIPH. MACULATUS & VARIATUS

1ST	MR & MRS KNIBBS.	STOCKTON	75 PTS.
2ND	MR. HARRISON.	BILLINGHAM	74 PTS.
3RD	MR. KIRKUP.	MOUNT PLEASANT	72 PTS.
4TH	MR. DIRPLE.	NAILSEA & DISTRICT	71½ PTS.

BREEDING PAIRS XIPH. MACULATUS & VARIATUS

1ST	MR. LEARROYD.	N.G.L.S.	76 PTS.
2ND	MR. DIRPLE.	NAILSEA & DISTRICT	70 PTS.
3RD	MR. PURDY.	N.G.L.S.	68 PTS.

BREEDERS CLASS XIPH. MACULATUS & VARIATUS

1ST	MR. KIRKUP	MOUNT PLEASANT	73 PTS.
2nd	MR. MARTIN	N.G.L.S.	72 PTS.
3RD	MR. DIRPLE	NAILSEA & DISTRICT	68 PTS.

MALE POECILIA LATIPINNA, SPHENOPS & VELIFERA

1ST	MR. MARTIN	N.G.L.S.	74 PTS.
2ND	MR. ENGLISH	"	71 PTS.
3RD	MR. ROBINSON	MOUNT PLEASANT	70 PTS.
4TH	MISS D. KNIBBS	STOCKTON JUNIOR	59 PTS.

FEMALE POECILIA LATIPINNA, SPHENOPS & VELIFERA

1ST	MR. MARTIN	N.G.L.S.	73 PTS.
2ND	MR. ENGLISH	"	68 PTS.
3RD	MR. THOMPSON	VILLSEND	65½ PTS.
4TH	MR. NAPIER	SOUTH SHIELDS	65 PTS.

BREEDING PAIRS POECILIA LATIPINNA, SPHENOPS & VELIFERA

1ST	MR. NAPIER	SOUTH SHIELDS	73 PTS.
2ND	MR. HARRISON	BILLINGHAM	62 PTS.

BREEDERS CLASS POECILIA LATIPINNA, SPHENOPS & VELIFERA

1ST	MR. SORPITT	HOUGHTON & DISTRICT	72 PTS.
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MALE A.O.S.

1ST	MR. DIDDLE	NAILSEA & DISTRICT	70 PTS.
2ND	MR. PURDY	N.G.L.S.	74 PTS.
3RD	MR. PURDY	"	72½ PTS.
4TH	MR & MRS RENTON	"	72 PTS.

FEMALE A.O.S.

1ST	MR & MRS RENTON	N.G.L.S.	74 PTS.
2ND	MR. DIRPLE	NAILSEA & DISTRICT	74½ PTS.
3RD	MR. DIRPLE	"	74 PTS.
4TH	MR. KWAE	KIRKALDY	73½ PTS.

BREEDING PAIRS A.O.S.

1ST	MR. PURDY	N.G.L.S.	74 PTS.
2ND	MR. DIRPLE	NAILSEA & DISTRICT	71 PTS.
3RD	MR. KWAE	KIRKALDY	70½ PTS.
4TH	MR. DIRPLE	NAILSEA & DISTRICT	70 PTS.

RE-PRINTED FROM THE JOURNAL OF THE  
FANCY GUPPY ASSOCIATION.

THE RESULT OF THIS CROSS WAS AS FOLLOWS:- ALL THE MALES SHOWED THE SAME INTENSE BLACK THROUGHOUT THE BODY TO THE GILLS, THE CAUDAL SHAPE WAS, LET'S SAY DOVETAIL, WITH 3 EXCEPTIONS AND THESE 3 EXCEPTIONS BROUGHT A GLIMMER OF HOPE INTO MY EYES, THE 3 SHOWED A DEFINATE COFER SHAPE AND 2 OF THESE EVENTUALLY STARTED TO EXTEND A PIN. HOWEVER, BECAUSE MY GENETICAL PICTURE SHOWED THE PIN COULD NOT BE PRESENT, I IGNORED THIS.

THE FEMALES WERE LIKE THEIR MOTHER EXCEPT (AND THIS IS THE BIG ITEM AS I SEE IT) THEY DID NOT SHOW THE INTENSE BLACK BODY AND FINNAGE COLOUR. THE HALF BLACK IS PRESENT BUT ONLY, AS I HAVE ALWAYS BELIEVED, ON ONE CHROMOSOME.

THE BODY SIZE ON THE MALES IS REALLY SOMETHING EXCITING AND NOW WE ARE ON THE SECOND PART OF THE EXPERIMENT. I MUST NOW BREAK OFF AND ISSUE A WORD OF WARNING TO THE NEWCOMERS TO THE HOBBY.

THE BEST MALE WHICH HAD A VERY PROMISING CAUDAL AND DORSAL SHAPE WAS NETTED AND PLACED INTO A SMALLER TANK FOR A CLOSER LOOK UNDER THE MAGNIFYING GLASS. I TURNED ROUND TO SPEND THE NEXT 10 MINUTES TRYING TO DECIDE WHICH OTHER MALE TO TRY. HAVING DECIDED THAT MY FIRST CHOICE HAS SETTLED I LOOKED INTO THE TANK AND LO, NO FISH. I EVENTUALLY FOUND HIM ON THE FLOOR, QUITE DEAD AFTER HAVING MY FOURTEEN STONE PRESSED ON HIM. WHAT HAPPENED IS THAT THE SOFT NYLON NET THAT I USED DID NOT RELEASE HIM AND INSTEAD OF MAKING ABSOLUTELY SURE THAT HE WAS IN THE TANK, THERE I WAS WITH A BEST MALE GONE. PLEASE DON'T TELL MY WIFE, SHE'LL KILL ME. THE WARNING IS TO ALWAYS TAKE CARE WHEN NETTING AND TRANSFERRING YOUR FISH.

TO CONTINUE WITH THE EXPERIMENT. I THEN SELECTED THE BEST MALE THAT SHOWED SIGNS OF AN EXTENSION AND HE IS NOW DASHING AROUND WITH 2 OF HIS SISTERS AND SO, FROM MY PICTURE:-

MALE  $Y \frac{X}{?} \frac{1}{2} \text{BLK}$  CROSS  $X_P \frac{X}{?} \frac{1}{2} \text{BLK}$  FEMALE

I SHOULD HAVE:-

MALES  $Y \frac{X}{?} \frac{1}{2} \text{BLK}$  AND  $X_P \frac{X}{?} \frac{1}{2} \text{BLK}$   
 $Y \frac{X}{?} \frac{1}{2} \text{BLK}$   $X \frac{1}{2} \text{BLK} \frac{X}{?} \frac{1}{2} \text{BLK}$

HALF THE MALES SHOULD BE HALF BLACK AND HALF SIMILAR TO THE PARENTAL MALE. HALF THE FEMALES WILL CARRY BLACK ON BOTH THE X CHROMOSOMES AND BE AS INTENSIVELY BLACK AS THE ORIGINAL PARENT WHILE THE OTHER HALF WILL CARRY THE HALF BLACK ON ONE X CHROMOSOME ONLY WITH PIN ON THE OTHER X CHROMOSOME.

THE MALE TO BREED WITH WILL NATURALLY BE THE ONE WITH THE BEST PIN EXTENSION AND THE FEMALE WILL BE THE ONE WITH ONLY A SLIGHT TRACE OF HALF BLACK COLOURING IN THE BODY, ALL THE OTHERS WILL GO. THE FINAL CROSS WILL BE:-

MALE  $Y \frac{X}{?} \frac{1}{2} \text{BLK}$  CROSS  $X_P \frac{X}{?} \frac{1}{2} \text{BLK}$  FEMALE

AND THE RESULTS SHOULD BE:-

$Y \frac{X}{?} \frac{1}{2} \text{BLK}$  AND  $X_P \frac{X}{?} \frac{1}{2} \text{BLK}$   
 $Y \frac{X}{?} \frac{1}{2} \text{BLK}$   $X_P \frac{X}{?} \frac{1}{2} \text{BLK}$

THE MALES WILL BE SELECTED FOR THEIR PINS AND THE FEMALES THAT HAVE THE LEAST TRACES OF BLACK WILL BE RETAINED.

WELL, THAT'S MY EXPERIMENTS WITH THE PINTAIL BUT WILL IT WORK OUT? I'M CERTAINLY NOT AN EXPERT ON GENETICS BUT I THINK MY WORKING OUT IS ALRIGHT, IF NOT I HOPE SOMEONE WILL PUT ME RIGHT.

.....

"BITS AND BOBS"

TANK COVER GLASSES -

I FIND MOVING THESE ABOUT IN ONE PIECE IS NOT ONLY AWKWARD BUT SOMEWHAT RISKY TO BOTH THE TANK AND ITS OCCUPANTS, IF DROPPED. I, THEREFORE, ALWAYS MAKE MY COVER GLASSES IN AT LEAST 2 PIECES, MORE FOR LARGER TANKS, ONE PIECE BEING LARGE ENOUGH TO COVER ABOUT 2/3<sup>4</sup> OF THE TANK TOP, THIS BEING THE STATIC PIECE. THE SMALLER PIECE, FITTED WITH A HANDLE, BEING THE REMOVABLE PIECE FOR FEEDING ETC: FOR HANDLES I USE THE SELF-ADHESIVE PLASTIC HOOKS WHICH CAN BE BOUGHT FOR A REASONABLE PRICE FROM DEPARTMENT STORES. THESE HOOKS REALLY DO STICK TO THE GLASS - BUY THE HOOKS WHICH ARE EASILY GRIPPED AS A HANDLE.

ALGAE REMOVAL -

FLOATING PLANTS AND PLANTS SUCH AS JAVA MOSS, WHICH I USE AS A COVER FOR FRY VERY OFTEN GET COATED WITH ALGAE. AS I DO NOT LIKE USING CHEMICALS OF ANY KIND IN MY FISH TANKS, UNLESS I AM COMPELLED TO BY CIRCUMSTANCES, I FIND THE BEST METHOD OF FREEING THESE PLANTS OF ALGAE IS TO FLOAT THEM IN A TANK CONTAINING FEMALE GUPPIES. WHEN I DO THIS I USUALLY REDUCE SLIGHTLY THEIR NORMAL SUPPLY OF FOOD AND WITHIN 1 DAY OR TWO THE PLANTS ARE ALL CLEAN AGAIN AND THE GUPPIES ARE LOOKING THAT MUCH HEALTHIER FOR IT. I USE ANOTHER METHOD FOR KEEPING THE ROCKS AND GRAVEL CLEAN AND FREE FROM ALGAE, BUT THAT'S ANOTHER STORY.

DON'T WASTE WATER -

WATER SYPHONED FROM YOUR TANKS DURING PARTIAL WATER CHANGES SHOULD NOT BE EMPTIED DOWN THE DRAIN, IT IS FULL OF GOODNESS AS FAR AS PLANTS ARE CONCERNED. USE IT TO WATER YOUR HOUSE PLANTS, USE IT IN A VASE FOR CUT FLOWERS AND WHEN THE WEATHER DRIES UP A BIT IT CAN BE USED TO GREAT ADVANTAGE IN THE GARDEN OR GREENHOUSE. YOUR PLANTS WILL ALL BENEFIT FROM THE RICHNESS OF THIS WATER.

MR. GEORGE J. JOHNSTON  
BURTON ON TRENT.

.....

WE HOPE TO MAKE THE "BITS AND BOBS" FEATURE A REGULAR ITEM IN THE NEWSLETTER, SO IF YOU HAVE ANY TIPS OR HINTS, SEND THEM IN TO THE EDITOR.

.....

HINTS - CROSSWORD ANSWERS.

TEDDY  
CAUDO  
OLIVE  
T  
FISH  
C  
LIMIA  
RED  
BISHOP  
SAILFIN

.....



REPRINTED FROM "LIVEBEARERS" THE BULLETIN OF THE AMERICAN LIVEBEARER ASSOCIATION.

ABOUT ONE YEAR AGO I AUTOPSED A SHORRTAIL THAT HAD DIED UNEXPECTEDLY AND FOUND A SMALL TUBIFEX-LIKE WORM IN THE ABDOMINAL CAVITY. MICROSCOPIC OBSERVATION INDICATED THAT THE PARASITE WAS A LIVEBEARING WORM CONTAINING HUNDREDS OF YOUNG LARVAE WITHIN THE ABDOMINAL CAVITY. THE ONLY EXTERNAL SYMPTOMS OF THE DISEASE WERE SLUGGISHNESS, A SLIGHTLY PUFFED ABDOMEN AND A DISTENDED AREA NEAR THE ANAL OPENING. IN THE LATER STAGES, THE PARASITES WERE SEEN TO PROTRUDE FROM THIS OPENING. THE FISH USUALLY DIED AT THIS TIME.

I HAVE JUST RECENTLY BROUGHT THESE PARASITES TO DR. J. CRITES OF THE OHIO STATE UNIVERSITY ZOOLOGY DEPT. FOR EXAMINATION. HE INFORMED ME THAT THE PARASITE WAS OF THE GENUS *CAMILLUS* AND THAT ITS NATURAL HOSTS WERE VARIOUS MEMBERS OF THE BASS FAMILY NATIVE TO LAKE ERIE. THE PARASITE HAD A LIFE CYCLE OF ABOUT 1 YEAR IN LAKE ERIE, BUT IT IS PROBABLY SHORTENED TO ABOUT 4 MONTHS IN THE WARMER AQUATIC WATERS. THE MOST CRUCIAL ASPECT OF THE LIFE CYCLE IS THAT AN INTERMEDIATE HOST IS NECESSARY AND IS MOST LIKELY RESPONSIBLE FOR TRANSMISSION OF THE PARASITE. THE INTERMEDIATE HOST IS A COPEPOD KNOWN TO ALL AQUARISTS AS CYCLOPS. THESE SMALL ORGANISMS ARE COMMON IN MANY POND ENVIRONMENTS AND ARE USUALLY COLLECTED ALONG WITH DAPHNIA. NOT ALL CYCLOPS CARRY THE LARVAE NOR ARE ALL SHORRTAILS SUSCEPTIBLE TO INFECTION, BUT ONCE THE CYCLE HAS STARTED IT IS EXTREMELY DIFFICULT TO BREAK. DR. CRITES BELIEVES THAT SOME OF THE PLANTS I HAVE BOUGHT CONTAINED LARVAE-CARRYING CYCLOPS. THE CYCLOPS ARE EATEN BY THE FISH AND THE PARASITE LARVAE DEVELOPE IN THE INTESTINE OF THE FISH, DRIVING NUTRIENTS FROM THE CAPILLARY NETWORK SUPPLYING THIS AREA. WHEN THE FEMALE WORM HAS MATURED AND THE EGGS WITHIN HER BODY HAVE BECOME LARVAE, SHE HANGS OUT OF THE ANAL OPENING AND RELEASES HER BROOD. THE LARVAE ARE EATEN BY THE CYCLOPS AND THE CYCLE REPEATS ITSELF.

THE ONLY WAY TO ELIMINATE THE PARASITE IS TO BREAK THE CYCLE BY REMOVING ALL COPEPODS (CYCLOPS). (THIS IS A FORTHORABLE PROBLEM AND DR. CRITES WAS UNABLE TO SUGGEST HOW I MIGHT ACCOMPLISH THIS.) IF YOU ARE SURE A FISH IS AFFECTED, THE BEST APPROACH IS TO IMMEDIATELY REMOVE THE FISH AND DRAIN THE TANK. A GOOD SALT TREATMENT ALONG WITH THE DRYING SHOULD KILL ANY CYCLOPS IN THE TANK. THE LARVAE MUST DEVELOPE IN THE CYCLOPS FOR ABOUT 6 DAYS SO IF YOU ELIMINATE THE CYCLOPS DURING THIS PERIOD, YOU SHOULD BE ABLE TO BREAK THE CYCLE. IF YOUR BEST FISH IS INFECTED, I STRONGLY SUGGEST AN INJECTION OF PIPERAZINE (DOG WORMING MEDICINE) DIRECTLY UP THE ANAL OPENING. YOU'LL HAVE TO EXPERIMENT WITH DOSAGE, BUT I HAVE MET WITH SUCCESS THE FEW TIMES I HAVE TRIED IT USING A HIGH DOSE.

I HOPE THAT NO ONE ELSE HAS EXPERIENCED THIS PROBLEM, BUT IF FISH HAVE DIED UNEXPECTEDLY WITH THE SYMPTOMS I HAVE DESCRIBED I WOULD OPEN UP THE FISH AND LOOK FOR THE PARASITE.

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THE FOLLOWING COMMENTS WERE ADDED BY DR. JOANNE NORTON, EDITOR OF "LIVEBEARERS".

THE NEMATODE, *CAMILLUS*, HAS BEEN DISCUSSED BEFORE IN LIVEBEARERS. TWO MEMBERS CONCLUDED THAT THERE WAS NO INTERMEDIATE HOST, AND ONE OF THESE FOUND THAT IT IS POSSIBLE TO SAVE HEALTHY FRY FROM INFESTED LIVEBEARERS BY TRANSFERRING THE YOUNG INTO A CLEAN TANK IMMEDIATELY AFTER THEY ARE BORN. SO FAR I HAVE NOT HEARD ANY REPORTS ON USE OF HIGGON AS A CURE ON FISH BY U.S. AQUARISTS.

READERS ARE PRIMARILY CONFUSED ABOUT WHETHER OR NOT *CAMILLUS* MUST HAVE AN INTERMEDIATE HOST. TWO MEMBERS STATED THAT IT DOES NOT. DR. CRITES REPORTED THAT THE *CAMILLUS* THAT PARASITIZES THE BASS FAMILY IN LAKE ERIE HAS CYCLOPS AS AN INTERMEDIATE HOST. DR. VAN DUYN, (DISEASES OF FISHES) SAYS THAT *CAMILLUS LAQUSTRIS*, WHICH PARASITIZES PERCH, HAS CYCLOPS AS AN INTERMEDIATE HOST. DR. H. GOLDSTEIN, (DISEASES OF AQUARIUM FISHES) MENTIONS THAT NEMATODES, IN GENERAL OF A PARASITIC NATURE, MAY OR MAY NOT HAVE AN INTERMEDIATE HOST, AND HE LISTS HALF A DOZEN SPECIES OF *CAMILLUS* THAT HAVE BEEN FOUND IN AQUARIUM FISHES. IT APPEARS THAT WE CAN'T GENERALIZE AS TO WHETHER *CAMILLUS* HAS AN INTERMEDIATE HOST, SINCE THERE ARE MANY SPECIES IN THIS GENUS, PROBABLY STILL MORE THAT HAVE NOT YET BEEN DESCRIBED. IT MAY BE, AND I HAVE NOT FOUND INFORMATION ON THIS, THAT SOME SPECIES OF *CAMILLUS* DO HAVE AN INTERMEDIATE HOST (SUCH AS THE ONE REPORTED BY DR. CRITES) WHILE OTHER SPECIES DO NOT. MAYBE A MEMBER INTERESTED IN THIS PARASITE WILL FIND OUT BY READING THE LITERATURE ON *CAMILLUS*. NEMATODES ARE DIFFICULT TO IDENTIFY TO SPECIES. MOST AQUARISTS WHO ENCOUNTER *CAMILLUS*, HAVE IDENTIFIED IT TO GENUS IN SOME CASES, BUT USUALLY NOT TO SPECIES. WE DO NOT HAVE MUCH INFORMATION OF HOST SPECIFICITY OF THIS NEMATODE - THAT IS, WHICH FISH SPECIES CAN BE INFESTED BY WHICH SPECIES OF *CAMILLUS*. IT MIGHT BE THAT THE SPECIES INFESTING THE FISHES OF THE BASS FAMILY WILL NOT PARASITIZE SHORRTAILS, FOR EXAMPLE.



ONE THING IS CERTAIN, MANY GENERA OF FISHES, BOTH TROPICAL AND COLDWATER, ARE SUSCEPTIBLE TO INFESTATION BY CAMILLIDS, ONE SPECIES OR ANOTHER, AND FISH MAY NOT SHOW SYMPTOMS FOR WEEKS AFTER THE PARASITE HAS INTRODUCED. IT IS A WIDESPREAD PROBLEM, DIFFICULT TO CONTROL, WHICH MIGHT MAKE THE AQUARIST THINK FAVORABLY OF THE VALUE OF A 2 MONTH QUARANTINE FOR NEW FISH.

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HAVE ANY OF OUR MEMBERS HAD ANY EXPERIENCE WITH THIS PARASITE? IF SO, PLEASE LET US KNOW -  
A) HOW YOU THINK THE INFESTATION OCCURRED, B) HOW YOU NOTICED AND IDENTIFIED THE PARASITE,  
C) WHAT STEPS YOU TOOK TO CURE THE INFESTATION AND IF YOU SUCCEEDED, AND D) WHAT  
PRECAUTIONS YOU ARE NOW TAKING TO PREVENT FURTHER INFESTATION.

\*\*\*\*\*

EXCHANGE COLUMN

PLEASE QUOTE MEMBERSHIP NUMBER ON CORRESPONDENCE.

MR. B. DURHAM,  
12, DITCHFIELD DRIVE,  
LONGRIDGE,  
PRESTON,  
LANCS. PD3 3HP.

OFFERS - GUP. METALLICUS, FOECILIA VITATA,  
MET. RETICULATA & FORMOSA.  
WANTS - PHILLOSCOPUS QUADRIANGULATUS, FOECILIA  
SCLINOSISTOR & NIGROFASCIATA, XIPH. MONTZUMBE  
& STREBLOPS, ANCCA SPLENDENS, BRACHYRAPHIS  
BRACHYRAPHIS & MILE XENOTACA EISENI.

MR. A. SMITH,  
298, CHERITON ROAD,  
FOLKSTONE,  
KENT. CT19 4DP.

OFFERS - GUP. METALLICUS, MET. FORMOSA, PHALL.  
MAYUS SPATES, FOECILIA VITATA, XENOTACA  
EISENI.  
WANTS - OTHER SPECIES OF A.O.S. LIVEREASERS.

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LIVEREASER SHOW NEWS

RISINGSTONE & DISTRICT AQUARIST SOCIETY SPECIAL LIVEREASER SHOW, JULY 16th, 1977.

SCHEDULES AVAILABLE FROM:- RAYMOND ROCA,  
45, HAVEL CLOSE,  
RISINGSTONE,  
WANTS.

LONGRIDGE & DISTRICT AQUARIST SOCIETY HAVE 9 LIVEREASER CLASSES ON THEIR OPEN SHOW SCHEDULE.

THE SHOW WILL BE HELD ON SEPTEMBER 11TH, 1977.

SCHEDULES AVAILABLE FROM:- JOHN HOLTON,

PLEASE ENCLOSE S.A.E. 5, CHARLES GROVE,  
LONGRIDGE,  
PRESTON, PD3 3PL.

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MRS. J. REYTON,  
146, CHILLINGHAM ROAD,  
HESTON,  
NEWCASTLE UPON TYNE NE5 8TU.

BREEDERS CLASS A.O.S.

1ST	MR. DIBBLE	WALSLEY & DISTRICT	72½ PTS
2ND	MR & MRS RENTON	N.G.L.S.	72 PTS
3RD	MR. ENGLISH	"	68 PTS
4TH	MR. DIBBLE	WALSLEY & DISTRICT	67½ PTS

AWARD WINNERS

THE ROBINSON TROPHY.	(MALE P. LATIPINNA, SPONDOPS & VELIFERA)	MR. MARTIN, N.G.L.S.
THE RENTON TROPHY.	(MALE A.O.S.)	MR. DIBBLE, N.G.L.S.
THE BAILEY TROPHY.	(FEMALE A.O.S.)	MR & MRS RENTON, N.G.L.S.
WALSLEY AQUATICS TROPHY	(BREEDING PAIRS GUPPY)	MR. HILL, N.G.L.S.
THE LAIDLOR TROPHY	(BEST SINGLE GUPPY)	MR. SOPPITT, N.G.L.S.
T.T.A.A. TROPHY.	(BEST SINGLE XIPH. HELLERI)	MR. THOMPSON, W.A.S.
F.B.A.S.	(BEST SINGLE XIPH. MACULATUS & VARIATUS)	MR & MRS KNIBBS, S.A.S.
CHAMPIONSHIP TROPHY		
THE LAIDLOR SHIELD & AQUARIST GOLD PIN	(BEST FISH IN SHOW)	MR. MARTIN N.G.L.S.

\*\*\*\*\*

BEEP PRESS. EXCHANGE COLUMN

MR. T. DRIVER,  
THE PINES,  
BEESTON SAINT LAWRENCE,  
NORWICH,  
NR12 8YS

OFFERS - PHILL. ANATES, ANECA SPLENDENS, G. AFFINIS  
HOLBROOKI, X. EISENI, POEC. MELANOGASTER,  
8 SPOTS, DER. PUSILLUS (ALBINO) & SMUTRANUS,  
DELONOSON BELIZIANUS.

WANTS - POEC. ORNATA & NIGROFASCIATA, BRICH. RHASODOMERA,  
PRIARELLA INTERMEDIA, 10 SPOTS, MALE HIT. DIMACULATA.

\*\*\*\*\*

IT WOULD BE APPRECIATED BY THE EDITOR, IF ARTICLES, EXCHANGE LISTS ETC; FOR PUBLICATION ARRIVED NO LATER THAN THE 15TH OF THE MONTH PREVIOUS TO THE PUBLICATION MONTH. (EG. ARTICLES ETC; FOR THE AUGUST EDITION SHOULD BE RECEIVED BEFORE JULY 15TH)

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TRIALS & TRIBULATIONS.

I wanted a guppy, with a bright blue tail,  
so I sent my order through the mail.  
A few days later a box arrived,  
I opened it up, but the fish had died.  
I wrote once more, to this certain breeder,  
I got no reply, the rotten b''''''.

I read all my books, and I started to groan,  
only one way, breed my own.  
The fish in my tanks, were a mixture of colours,  
the problem now was, to breed lots of others.  
I mated cofers, swords and pintails too,  
but when checking the fry, they just would not do.

All this went on, for months and for years,  
at the end of which, I was really in tears.  
On day in the library, a book I did see,  
a book of genetics, for you and for me.  
I read it from cover to cover, and then,  
I read it again, and again, and again.

I now started breeding, as fast as can be,  
I bred thousands of blue tails, for all to see.  
Gone were the reds, like balls of fire,  
and also the greens, I used to admire.  
I've learnt my lesson, good and true,  
only one strain, with tails of blue.

I worked just as hard, on my original strains,  
I used the book, and also my brains.  
The reds are now back, upon the show bench,  
no longer do they look, just like tench.  
The judges now, are not so mean,  
when they are judging, my original greens.

## MEMBERSHIP STOCK LIST

STOCK ON THIS LIST IS NOT AVAILABLE UNLESS ADVERTISED IN THE STOCK EXCHANGE COLUMN BY THE MEMBER CONCERNED.

ADDITION TO STOCK CODES PUBLISHED IN LAST ISSUE

XI 5 SPOT PETHOLE  
 CC NORWICHSHIRE HICENT

MEM. NO.		
1	MR. W. MOONEY, 3, BARNON CLOSE, HARDSICK ESTATE, STOCKTON ON TEES, CLEVELAND.	NO STOCK LIST AVAILABLE
2	MR. A. ONLON, 8, BARFIELD ROAD, HUGGLESCOTE, LEICS. LE6 2HU	X
6	MR. A. CHARLTON, 5, DENE COURT, HEATON MORRIS, STOCKPORT, SH4 2JD	1
7	MR. J. HANDELL, 5, DALE COUSE, FOMBURST, HASLENDRE, SURREY, GU27 3HP	A, C, 4 2, D1, U1 & W4
9	MR. J. JOHNSTON, 3, ROBINSON DRIVE, NEWHALL, BURTON ON TRENT, DE11 0RY	4, 5 (RED & NOON) & Q2
10	MR. K. LEW, 2, FLORIAN ROAD, GOODIN, LANESBOROUGH CLEVELAND	NO STOCK LIST AVAILABLE
14	MR. R. PURDY, 30, CHURCH ST., EBON VILLE, OVENT. NP3 6BB	NO STOCK LIST AVAILABLE
16	MR. K. FRENDEGAST, 48, ROBIN HOODS WALK, BOSTON, Lincs. PE21 4NS	D (RED & ALBINO) L2, Q2, U1 & Z
17	MR. G. KINE, 161, BEATTY CREW., KIRKCALDY FIFE, SCOTLAND	33, 34, H1, H2, Q2, U1, W4, 4 5, X, XI, 001 & 6.
18	MR. J. BUTCHER, 275, WICKLOW COURT, OLD RANSFORD, NOTTINGHAM, NG6 0DB	J2, L2, H1, Q2, U1 & W9
19	MRS. M. DORE, 17, CORNEROCK ROAD, DETING EST., NEWPORT, OVENT. NP7 6EL	J2, H, H3, U1, W4 & 5, Z & 006
21	MR. O. KENWOOD, 26, SLADE ROAD, POITISHED, NEAR BRISTOL	W, P1, Q2, N2, U1, W4, 8 69, Z, 31, 001 & 2.
23	MR. D. HARRIS, 5, HOLMES ST., QUEENSGATE, BURNLEY, LANCS. BB10 1SF.	NE (EVLIN), J2, H1 & 3, H2, Q1 42, 5, H4, W4, 5, 6, 9, X, Y, Z, 22, 001 & 2.
24	MR. G. MORRISON, 25, PYLE INN WAY, PYLE, NR. BRIDGEND, GLAMORGAN.	H2, 6, & W4.
25	MR. A. T. HARRIS, 38, KENMOUNT DRIVE, KENMORRY, FIFE, SCOTLAND.	Q4, H2, U1
26	MR. T. BUSFIELD, 31, CONISTON ROAD, BARZLEY, 5, YNKS. E71 1FL	Q4, Q2, U1, W5, 006.
27	MR. W. INNES, 85, FARNE COURT, KIRKCALDY, FIFE, SCOTLAND. KY2 6DH	1, 23, Q2, U1, W5, X.
28	MR. G. B. DURHAM, 12, BIRCHFIELD DRIVE, LONGTIDE, PRESTON, LANC. PR3 3HP	1, 21 (RED & YELL. W4) 03 (W4), W4 & SPARKLED), 01 (RED & W4), H2, Q1 & 2, W5, X, Z.
29	MR. N. KING, 9, HOWARD RD., SANDHURCH 6TH. EST., TENNESBURY, GLOS. GL20 6DX	1, 2, W, Z.
30	MR. G. BORTHICK, 77, DUNSMITH DRIVE, KIRKCALDY, FIFE.	NO STOCK LIST AVAILABLE.
31	MR. I. H. DINGLE, 11, STRODE ROAD, GLEVEDON, AVON. BS21 6HQ	1, 21 (RED & BLUE), 03 (W4), Q1, J2, K, H, 2 42, W4, Q2, W5, W6, W7, 2 22, 001 & 2.



32.	MR. P. WALSH, 54, GRISHAM ST., GT. WARWOOD, NR. BLACKBURN, LANC. BB6 7AP	N2,Q1 62, U1,W4 69, X,891 67
33	MR. G.W. MAYO, 13, CORONATION DRIVE, FRIZINGTON, CUMRIE, CA26 35D.	4,B1, D1(NEON & SUNSET)
34	MR. K. BRYDEN, 10, KINGS ROAD, 5TH. NORWOOD, LONDON SE25.	NO STOCK LIST AVAILABLE.
35	MR. E. BOYLE, 4, GULZEAN, GLENMIVIS, BY AIRDRIE, ML6 8JD	NO STOCK LIST AVAILABLE.
36	MR. P. WILKER, 163, CHERRY TREE ST., HOVLAND, S. YORKS. S74 9RY	C4,M1 63, N2,Q2,U1, W4 69. X, XENOPHONUS CAPTIVUS.
37	MR. R. WILSON, 11, CHERMELL WALK, CORDY, NORTHANTS. NN17 2LD	N2,Q2,W4.
38	MR. A. HOWARD, 237, TENNYSON WY, OFFMORE FARM, KIDDERMINSTER, WORCS. DY10 3XH	Q1,U1,W4.
39	MR. D. CHESMIGHT, 2, CEDAR AVE., WICKFORD, ESSEX.	NO STOCK LIST AVAILABLE
40	MR. K. SARRY, 5, ROBIN CLOSE, MEOPHAM, NR. GRAVESEND KENT, DA13 0EJ	B2,D1(ALBINO), H,N2,Z, AA,891 62.
41	MR. A. NORONHA, 64, MAXWELL GARDENS, ORPINGTON, KENT.	D1,H,Z,002.
42	MR. R.J. MURIE, ST. HELIER, DAGNALL PARK, 5TH. NORWOOD, LONDON. SE25 5PL.	H,Q1,U1,W4,Q2,Z,892,CC.
43	MR. J.L. EVANS, 67, EGERTON RD. SOUTH, CHORLTON CUM HARDY, MANCHESTER 21.	B2
44	MR. P.G. CHINN, "VALERIE", FIGSBURY RD., WINTERBOURNE DAUNTSY, NR. SALISBURY, WILTS. SP4 6EX.	A,C1(BLK),C3(FRN. GOLD & BLUE SPCKLED), D1(NEON & RED)
45	MR. C. TURNER, 146, BRAN ST. ROATH, CARDIFF.	B2,W3,X,002.
46	MR. D. SHIELDS, COODLESTONES, GAINEST, KINGS CROSS, HALIFAX. HX2 7DT.	C2,M1 63, N2,Q1 62, U1, W4 69, X1,Z,892 66
47	MR. M. THOMAS, 41, WILLIAM ST., YWYSHIE, RHONDA, GLAMORGAN. CF39 0EY	N2,Q2,T,U1,X,Y,Z,AA,891, W5.
48	MR. T. GLASS, 10, ADELAIDE GOUSE, PORTOBELLO COURT, LONDON W11 2DD	B3,Y,Z.
49	MR. D. PARKER, 67, HASLEWOOD CLOSE, EPOR GARDENS, LEEDS LS9 7PU	A,C,D.
50	MR.P. BURTON, 2, EDWARD CLOSE, PENWARD, MERTHYR TYDFIL, CE47 0LA.	L,W2 63, N2,P1,Q1 62,U1,W4 67, X1,Z,AA,891.
51	MR. D. RIBBS, 43, WORSWORTH CLOSE, HILL TOP, EDEN VALE, GHENT.	J2,Q2,U1,W4,X1,AA,CC.
52	MRS. M. MORGAN, 4, POPLAR PLACE, BETHEDA ST. MERTHYR TYDFIL, CF47 0LE	B,C,CA,L2,N2,Q2,U1,W5,Z,891
53	MR. K. GREENLEY, 50, EDWARD ST., STOCKTON ON TEES, CLEVELAND.	NO STOCK LIST AVAILABLE.
54	MR. C. WHITTAKER, 1, SPRINGBANK, RUDDINGE, STROUD, GLOS. GL6 6DF	C4,W3,Q2,W8,891.
55	MR. M. WESTLAKE, 47A, PIER RD., LITTLEHAMPTON, SUSSEX. BN17 2LV	B29H1-FIN), N2,Q2,X
56	MISS E. LIKE, 9, SACHEM ST., PINEHURST, MASS. 01866, U.S.A.	NO STOCK LIST AVAILABLE.
57	MR. A.K. SMITH, 203, CHERITON RD., FOLNESTONE, NULT. CT19 4DP.	N2,Q2,U1,W5,X1,Z,891
58	MR. T. DRIVER, THE PINES, BEESTON ST. LAWRENCE, NORWICH, NR12 8YS.	L1,Z, 63, N2 63, N2,P1,Q1,892, U1, W5,B 69, X,X1,AA,891 62

59	MR. C.M. HONE, 11, CHAMBERS RD., NEWBURY, BERKS. GCL1 7EP	NO.00,05,X,Z,150.
60	MR. R.J. TOMKINS, 10, BASFIELD RD, THATCHAM, CR. Reading, Berks.	NO. X,Z,101
61	MR. T. MOOREY, 20, COPELTON CLOSE, FINCHLEY, LONDON N12.	NO STOCK LIST AVAILABLE
62	MR. B. LIGHT, 6, YORK CLOSE, FLAXMAN ROAD, CANNIBELL, LONDON SW5 9JZ	91MS & SUNSET, C1(RLK), C3,04,60.
63	MR. I SINCLAIR, 42, ANDERSON DRIVE, PERTH.	NO STOCK LIST AVAILABLE.

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HONOURARY MEMBERS AND MAGAZINE EXCHANGES.

MR. S. FOX, 126, WEST FARM AVENUE, LONGBENTON ESTATE, NEWCASTLE UPON TYNE.

MR. R.A. BAILEY, INDIANAPOLIS, INDIANA, U.S.A.

MR. J. CHAMBERS, BRITISH MUSEUM (NATURAL HISTORY), LONDON.

HERR. G. ENTLINGER, (GERMAN LIVEREADER ASS.) HAMBURG, GERMANY.

MARK YOUNG, LOWELL, MASS. U.S.A. ("NAUTICAL NEWS". LOWELL U.S.A.)

MR. W. FACKETT, ELKHART, INDIANA, U.S.A. ("TROPICAL TIMES". MICHIGAN U.S.A.)

MR. W. MILNUS, LIVONIA, MICH. U.S.A. (NATIONAL AQUARIUM CLUB NEWS)

C.J. JENSEN, HVEDDGAARDEN, DENMARK. ("POECILIA")

MR. R. FRANCIS, TRINCYNON, ABERDEEN. (FANCY GUPPY ASS.)

MR. R.C. MILLS, PERIVALE, MIDDLESEX. (FED. BRITISH AQUATIC SOCIETIES)

MR. K.N. PULESTON, CHALDEN, NEMEL HEMPSTEAD. (NEMEL HEMPSTEAD U.S.A.)

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IT IS HOPED TO PUBLISH A COMPLETE STOCK AND MEMBERS LIST ONCE A YEAR. PLEASE HELP BY SENDING IN YOUR UP-TO-DATE STOCK LISTS.