$27110 / 12$
Committee Secretary
House of Representatives Standing Committee on Agriculture, Resources \& Forestry Inquiry Into The Role of Science for Fisheries \& Agriculture.
Committee Secretary, Mr Thomas Gregory
P.O. Box 6021 Parliament House

Canberra 2600
Dear Sir,
Please find enclosed information that I have gatherd on the situation regarding the demise the fish population of Australian waters, and in fact of the world.

If irs sent some of this information to eight of the capital cities newspapers and to the Liberal Party through our local party member. None of the press even acknowledge receipt of my letters, but the Liberal Part did. Since then have gathered much more information on the subject to my dismay. I am enclosing also several copies of newspaper items on the subject substantiating my clams.

Y ought to have re-written this work, but am sending it with addendums etc.
It all boils down to the following in my view: We must breed fish and release them into the ocean, and we must cut out the waste from the professional fishermen Having to throw the excess of the fish they trawl over their quota back dead, My suggestion on this is to give them weekly or monthly and yearly quotas and allow them a percentage over their quotas for that week and for it to be deducted from next weeks and monthly quota. This way there would be no waste fish and the fishermen would not go out that week when their quota is reached.

As this is a commonwealth matter, I am submitting this to you.
Sincerely,

Bruce England.

## 17/8/11

To Whom it may concern (most Australians, in fact the world)
We are perceiving so many needs of preserving the planet and environs from so many things, even to preserving the bird life by keeping wetlands etc for birds that are not nessarilly of intuinsic value to humanity and the planet. Now let me say I am all in favour of this, as few people love birds as much as I do.

We are even going overboard to protect insects from extinction (well some people do) that are not in any way beneficial to us.

We are concerned for the Barrier Reef, as we might well be.
Well, this only the tip of the iceburg so to speak. The crisis is the whole ocean system, the demise of the fish population. Anyone who has been fishing for any length of time will know that the fish population has diminished alarmingly.

Even the governments are aware, and are trying to preserve the fish population with Marine Parks. This is stupid, as stopping fish from being caught in some areas does not stop them from travelling to other areas.

I used to be able to fish off beaches in most places and catch fish there some 40 years ago. Now it is useless to fish there. Places I used to get many schnapper: , whiting and bream and other fish off the beaches are barren of fish.

At Portland where I live I sometimes drive out onto the rock pier and sit and watch and talk to Guys fishing. There will often be twenty or thirty rods out, and I will spend an hour there, watching and usually no more than one small fish is caught.

People will say to me, aren't you going to fish, and I tell them that I catch as many as them, just sitting in my car, which 1 mostly do. For thinty rods out for an hour, for one fish means I would have to sit there for thirty hours with one rod to catch one small fish, or ten hours with three rods out. Stupid.

Forty years ago, I used to fish at Mermaid Beach on the Gold Coast, with just a trout rod, and catch whiting and bream. Now you are very lucky to catch anything by wading in with a sure rod. The same applies where my Brother in Law and I have a beach house or shack near Robe in South Australia. You cant catch anything off the beach, and very little from aboat.

I have just come back from the Gold Coast where my wife and I would dine at the Southport Yaght Club for Sunday lunch and the drive up to the end of the spit and spend an hour watching the action on the broadwater, and I would always see two or three Osprey (Fish eagles) hovering above the Broadwater looking for fish. Due to illness we had not been there for the last three years, and now that I am on my own, I still go there of a Sunday, and I look to see the Osprey. They are still in their eerie at the start of the broad water, butin twelve trips this year I have not seen one Osprey over the Dradwater, although I have seen seven fly over South Stradbroke out to sea,

To me it can only mean that there are few if any fish for them to get there and they have to go out to sea for a feed. This is how serious the situation is.

## P. 2

I have seen the Porland Harbour, which is about 2 square Kilometres in area, completely full of fish, shoulder to shoulder, some 40 years or so ago: there would be billions of them. So Built a cannery at Portland, and because the local fishing boats were not large enough, they Got two boats and a spotter plane from Eden in N.S.W to net the fish, and within a few months they had virtually wiped out the Salmon. I was building a house for the manager, and went to see him about the job, and he was waiting for a boat to come from Tasmania with fish. They had wiped out the salmon in Victorian waters and would do the same to Tasmania. The cannery was closed and has never re-opened.

Then around fifteen or so years ago, they discovered the Orange Roughy Deep down, and of course all the fishermen went after them and nearly wiped them out. As of about five years ago they have become protected.

There used to be huge schools of what we called Haddock, which were Snot Gall Trevally, in the Portland Harbour, and they would swim up and down the pier, and hundreds of anglers would fish for them and catch them very easily whilst they were on the bight. They have not been here for the last four years, so I can only Surmise that they have somehow been wiped out.

About six years ago, two men netted 70 Tonns of Snapper up the Spencer Gulf north of Adelaide, in one haul. So they would be back every day for a while later, and numerous other boats as well This is one of their breeding grounds, so they would probably be small fish, so you can imagine how many there would be.

I believe that netting has since been banned up there
So first we have the fishing pressure too much for the fish to handle.
Next, we are denuding the ocean of the fish'foodstock in the form of prawns Which are on the menue of every restaurant, and all the bait which is sold in all the bait shops and service stations. Whitebait, Prawns, Pilchards, Bluebait and whatever.

Thirdly, we are preserving the fish's Preditors, in the form of sharks, Dolfins Seals Penguins, Gannets and other seabirds, which must have an impact on the fish, Diminishing their population.

Then there is the situation where the world population is doubling in some ten Or so years, and more and more people are using fish oil as a medicine.

So the situation is that apart from the fish supply not being able to keep up With the pressure as it is, how is it going to cater for double the demand in the short term, but treble and more in the medium term.

The answer is simple. We must set up hatcheries right around the coast near the towns and breed fish and release them as fingerlings into the ocean.

And of coarse, we will also need to breed some of their foodstock and release them into the ocean. Well it has to be done.

I can foresee the day when it will be unsafe to enter the ocean at the beaches, Because when the sharks become short of fish to eat, they will be into the beaches looking for food, in the form of the two legged variety.

## P. 3

I will tell you a story of when I was in Port Morseby in 1950, working for the Department of Works and Housing. Six of us hired a native lakatoi (canoe with outrigger) and two natives to sail it and went to Fisherman,s Island some eight miles from Morseby,for Easter. I would run along the canoe and dive off the front and swim flat out until the outrigger caught up to me, and then pull myself up and climb back onto the canoe. The natives were concerned for sharks.

When we were close to the Island in about 3 meters of water, we could see numerous sharks on the bottom.

We would go out in the early mornings in the lee of the island and toss a hand made grenade into a school of mullet and dive and get as many fish as we wanted.

The sharks would swim between us getting dead and stunned fish. One guy had a fish taken out of his hand. The sharks were not interested in us as long as there were fish to get. I hate to think what would happen if there were no fish. Likewise you can imagine what will happen when the fish become too scarce for the sharks. They will be in to the beaches looking for food, in the two legged variety. It will be unsafe to swim there. Is this what we want for our grandchildren.?

## P. 4

About fory years ago we used to catch numerous snapper from the beach at Nora Criena, near Robe in S.A.. Now you are lucky to catch any from a boat there Up to about three years ago we could catch numerous Sweep near the reefs there, but over the last two years they have almost vanished. I cannot supply an explanation for their demise.

I am enclosing several Newspaper cuttings showing the situation. Even Prince Charles is concerned, so the situation is evidently similar over there.

There is a photo of Coutta being court by the thousands at Portand fifty years ago. Boats would be there circling schools of couta most days for years and we could catch them in plenty from the wharf. Not any more.

I am enclosing a page from a book on Super Foods, wherein is an article saying that Atlantic Salmon are virtually extinct in U.S.A. Well twenty years ago, I was in Anchorage,Alaska, and witnessed thousands of Salmon going upstream in a creak There ,to breed. Of coarse there are numerous rivers and creeks (probably Thousands)in Alaska alone, so the numbers going upstream would be in the trillions. It is hard to believe that they would be wiped out in so short a time.
We used to catch Tuna about 200 metres from the beach at Portland.
Now once a year they are caught about 42 kilometres by anglers coming from all Round Australia and even oversees, which suggests that they must be scarce elsewhere as well.

Back to the hatcheries; Imagine the situation if we were not breeding cattle,sheep deer, poultry, ducks, and other critters, and not growing fruit, vegetables Grain and other foods.

Well we need to grow fish and let them go into the oceans. We are stocking Rivers and lakes and must set up hatcheries for the Ocean We cannot cope for the present onslaught much less for a population which is doubling every ten or so years.

The stupidity of creating Marins Parks is ridiculous. As the fish further decrease, it will only lead to increasing the number and size of the parks until fishing is banned altogether. Which brings up another situation. I believe the professional fishermen have a daily quota and usually bring up sometimes the times that quota in one net haul, and have to throw the excess back dead. What a waste. I would suggest that they have a weekly and monthly quota wherein they could bring in their whole catch and when the limit is reached, not be able to catch any more that month. There would be no waste.

This does not in any way affect the necessity for hatcheries.
Thave supplied copies of this to 8 Newspapers around Australia and have not even received a reply. They are not interested in their responsibilities to the public,

## IS. Addematum

$25 / 4 / 12$

Whev leam bom the intonct that the information that I gave about the vitwal
 the Americans are brexding and wewsing samon into the streambs to go to sean

Wcll the se what we have to Ao also. I ann cnelosing a photo hom the Portand Oberver showing a colony of Gannets which is hat overhow fom one conpletcly covers Lawtence rock wheh you see in the buckground, then donbling the\% popubation. As wrote in the eather pages, hus is what we bue abo Going with the Shatcs Dobhins cre which we pectutos of the hish.

I sww thow on tclevision (Austra) two days ago, abont beach in Northern Bunt, showine arescue of a guy who was ettacked by athat on ant boted, and Whe both his haves biticn off. I fand that a of of poople hav sopped going to that beach becunce there has been cight shart death thexe in the hast four years. They are tat a loss to know why. Well my thoughts ane hat the fish Population has been diminished to the cxtent that the shaks we conming in to the beaches looking for Food and finding to th the two legged varicty. I wetc cight monthe ago that the would happen here. Ihave read that in $\mathrm{W} . \mathrm{A}$. they have had II shark attacks last year against 4 the year before. Needs very lithe imagination to suy why.

We ean farm fish for domestic consumption as they are boing with the Samon In Ancrica, but whore-as the Wid Athotic Salmon are rebin Omegat which wo
 The farmed ones will not have the Omerga 3 but probably Mercury as some fish have.

Towever it does not matter wheather we tre booking at thoreasing the hish Popuntion, the guality of the fish on the ravaghg of the sheths, it is all thecs.

And then there is the question of what happens to the Zooplankton?
Do they wntuply to the extert hat they pollute the nceane?
Any way you look at it, bhe answer is the sane. We must buecd and release fish into the recans as we are domg in the inhned waters.

How th fnonce this? I wond suggest that we foster Prvate Enterprise to do this and the Govermment pay for the fish released. Some or all of the cost could be recouped from wded Duty on all impored hehweg gear and Tox on all fishmg gear, buit, boens cic and cven parking metors at lauching rowps. I'm suce most whglers and
 the case. Nevertheless in Wes to be done, ant the sooher the better.

I am at Surfers Paradise where I have been for two months, in a high rise building with full view of the beach and sea from the Spit at Southport to Coolangatta, and have not seen anyone fishing as far as I can see, where-as I used to walk the beach for a Kilometer or so each moming some four years ago and talk to about ten or so angless fishing the beach each moming.

There ased to be massive schools of Tailor here this time of year, but they have not been here for threc or four years now.

There is an arificial reef of Main Beach and there used to be twenty or more boats there every moming of a weekend. I have not seca one boat there in the two months I have been here nor in three months last year.

The same applies to the Palm Beach reef and the Mermaid Beach Reef just south of here. There used to be three or four boats anchored there most weekends But not one this year nor last year, a total of five months*

Anglers will go in droves to wherever there are fish to be caught.
I was told on arrival here this year that you daren't swim in the Broadwater now because of the Bullsharks which are now in there. Thave since read in the Press that this is so. Thave a copy of that item. The writing is on the wall.

The fish are diminishing dramatically whilst the sharks, dolphins, seals and gannets Are increasing. How stupid is Humanity. We are supposed to be Managing the Phatet. From my balcony 9 floors up and right on the seafront I can see everything going on in the ocean, and until four or five years ago used to see many schools of fish chasing Batifsh and breaking the surface, with the seagulls hovering above and geting in for their chop, but in five months over the last two years, have not seen one such seene.

I have mentioned this before, but can you imagine the situation in our inland waters if we were not stocking them. Well that is how the sea will be without our help.

1 am enclosing an article from the Australian where-in it states that the population of Tuna is only about $3 \%$ of what it was. Well I maintain that is probably about the ratio of most of the other species of fish to what it was. Imagine in another ten years or probably much less what the ratio will be.

Fortunately we are stocking our inland waters, and in fact I have just read where they have dramatically increased the numbers stocked this year.

We have no alternative than to also stock the ocean
l rest my case.

## Bruce England.



FRESH 日ush is the latest battleground in the supermarket war, with Coles wowing to strip its fridges of unsustainable breeds.

After skirmishes over hormone-free beef and cutprice milk and bread, Coles aims to boost its green credentials with "Gustainable Choice:" stickers on fresh, wilo-caught fish.

In the past year Coles and Woolworths have banned endangered fish such as yellowin tuna and crange roughy.
But now Coles will phase

WRWD MARERECVE
Food edilor
out all unsustainable species by 2015.
"We te taking the guesswork out of buying sustainable fish," Coles spokesman Jon Church said. "Customers want to do the right thing, but it's not easy to figure out what is sustamable and what isn't." The decision is timed to coincide with Lent and Easter, when fresh Iish sales jump 85 per cent.
The company expeets the
campaign to boost sales by another 20 per cent.
Coles twaned to the Worid Whlile Fund to set its fishery benchmarks, while Woohes joned forces with the Sustanable Fisheries Partnership Foundation.

Both supermarket chains have committed to helping fisheries win international accreditation from the Marine Steward. Ship Councll

Coles then upped the ante, asking WWW marine scientists to investigate 300 hish it sold.

The 12 -month study identified a "red list" of 33 . But this is where the waters get muddy
Fish species deemed unsustanable may be low in numbers one year and llourishing the next, or plentim in one region but not another.
Local snapper, catamari, garfish and sardines caught in Victoria's bays andinlets have been put on Coles' red Iist, not because of environmental damage, but because the local industries had no harvest
strategies or catchr
Atter mutroducin feesh, wild-ce sustainability st Coles will move farmed and frozenf crustaceans.

But fishmonges Kyzintas describ new Coles campais big gimmick".
"Their product wi be as good as the $h$ we sell at the maxke Mr Kyzintas, part-o stalls at Queen Vict South Melboume m Sunday Food, Play




 by swimming in murky waters.
Water Police will resume the
 today and patrol through the night
until he is found.
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 Mr Goding has seen about 20 bull
sharks and said they often travelled sharks and said they often travelled
in schools of three and four.


## STAY <br> The Environment Minister's dramatic clampdown on a super trawler reflects public concern as much as science

## GRAMAMEOMO

## $\prod$ 【.

ENVIRONMENT EDITOR


The EV Margivis suyer trawler off the coast of Mauntana, west Afrt

$A F B$

## Activists intercept the RV Margiris at Pon Lincoln last month

Last month asked his deparment what power he had to stop the super trawler from casting its nets. The answer was, not much.

But last week, as a stopgap. Burke imposcd strict new regu-lations for an interim two-week period that he said would ensure the trawler had no grater impact than smaller trawiers.

Under the new conditions, if one or more dolphims were killed, then fishing activities must be suspended, an APMA observer on board notified to review mitigation measures and the trawler must move at least 50 km from the kill before resuming fishing

If three or more seals were killed in each of three consective shots, the trawler must do the same as with a dolphm death.

The trawler would be banned
from Australan sea lion huntigg grounds. And anonboard observer and underwater camera record of the by-catch must be used 24 hours a day.

The ship operator accepted the new rules and flew special obseryers from Europe to help with underwater cameras and dolphin defencestrategies.

But yesterday Burke intervened dramatically as he had promised to do when he asked his department for advice.

He effectively locked the super trawler out of operating in Australia tor two years while new research into its potential impact was undertaken.
"When the law falls short you change the law," Burke sad.

He told hederal parliament his objective was to make sure that

Total allowable catches (TACs) for the South Pacific Fishery

物 of estimated spawning biomass
Species
$2011-12$ (t)
$2012-13$ (2) spawning biomass
in $2012-13$

REDRATT (EAST


## our oceans

dames raxadloy
Ocean of Liten How Our Seas are Changing
By Callum Roberts
Allen Lane, 390pp, $\$ 35(\mathrm{HB})$
cike of 1998 , which Gilled 70 per cent to 90 per . Fifty years ago, for instance, grear schools of that an event such as the marine temperature
spike of 1998 , which Ialled 70 per cent to 90 per
cent of the coral in the Indian Ocean and one-
quarter of coral worldwide, can pass almost
innoticed outside the wolld of marine science? mnoticed outside the world of marine science?
After all, if one-quarter of the world's forests After all, if one-quarter of the wonld's forests seems safe to assume we would have demanded such a disaster. The answer is complex, of course. Part of it is
undoubtedly ignorance. Part of it is, as Roberts acknowledges, symptomatic of a larger inability to comprehend the scale of the environmental
crisis unfolding around us. Patt of it is also, one crisis unfolding around us. Part of it is also, one
suspects, a function of our tendency to imagine the oceans as so immense and timeless as to be
by their very nature inexhaustible. by their very nature inexhaustible.
The optimist in me would like to believe
Ocean of Life has the potential to begin to Ocean of Life has the potential to begin to unravel some of these assumptions. Certanly it
should be required reading not just for anybody should be required reading not just for anybody
with an interest in the oceans and marine ecosystems but for politicians, policymakers and
business leaders around the world.

Nosiness leaders around the world.
Not simply because the problems we face are Not simply because the problems we face are
so urgent, but because as well as managing to
illustrate the complexity and scale of the Chustrate the complexity and scale of the read, Roberts does something that is even more important, which is to begin to map out a
program for change.

Ocean of Life is likely to prove deeply shocking to many readers, For as Roberts lays our the segins to emerge, one best communicated
statistics that fill the pages of this book.



GANBERRA: Commercial fishers are worried 36,000 jobs and $\$ 4$ billion in revenue could be lost under a Federal Government plan for a network of marine reserves.

Environment Minister Tony Burke yesterday unveiled his plan to create 44 marine parks including the Coral Sea and the southwest coast of Western Australia.
The new reserves of 31 million square kilometres, or a third of Australian waters, would limit fishing and some oil and gas exploration. There would be a $\$ 100$ million compensation package for commercial fishing operators.
"This is the biggest step forvard
the globe has ever seen," Mr Burke said. Australia would be a world leader in ocean protection, he said.

The minister will make a final decision after a 60 -day consultation process.
Earlier, Prime Minister Julia Gillard said the plan would affect only about 1 per cent of current commercial fishing activity.
The Australian Marine Alliance, which represents commercial and recreational fishers, says 70 trawl ers will go out of business. This is devastating and those that will suffer most will be coastal communities," CEO Dean Logan said.

Commonwealth Fisheries

Association spokesman Brian Jeffriess says industry members would have liked to have seen the adjustment package
Opposition Leader Tony Abbott said he was against anything that damaged the rights of recreational fishers and the commercial fishing and tourism industries.

Australian Conservation Foundation chief executive Don Henry warned the northwest region had been left vulnerable to the threats of oil and gas exploration.

The Australian Greens say the government has caved in to the oil and gas industry by leaving off critically important areas.


The Murwillumbah Service Centre has moved to new premises.
From Monday 18 June 2012, the office will be located at: 107-113 Woolumbin St, Murvillumbah
Opening hours. Monday to Friday $8: 30 \mathrm{am}$ to $4: 30 \mathrm{pm}$.
For further information visit humanservices.govau
AG66302

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## WEALTH 25

## A farmyard story for investors to chew on





COMPANY: Australian Natural Proteins
ASX CODE: AYB
SHARES ON OFFER 125 million LISTING PRICE: 20c
MARKET CAPIALISATION: $\$ 14 \mathrm{~m}$ LISTING DATE:TBA

AUSTRALIA'S fortunes once rode on the sheep sback. Wool was until the 1960 s our nation's. largest export, accounting for more than a third of overseas trade. Over the last halfa century, other industries have becomemoreprominent, although Australia is still the world's largest wool exporter.

The country has more than 10,000 specialised sheep farms and more than 60 million sheep. About 41 per cent of the flock is used for wool production. However changingeconomics haveled to a shift in favour of meatand live exports. The national sheep flock is recovering from its lowest levels since 1905. While competition from other textile fibres has tended to contain wool markets, saleyard prices for lamb over a decade have risen from $\$ 2 / \mathrm{kg}$ to recent highs of $\$ 5 / \mathrm{kg}$.

The soon-to-list Australian Natural Proteins aims to foster renewed growth as risks of tight supply increase. The company will operate nine sheep farms in the Riverina region of NSW. The farms generate a modest operating profit, mainly from wool and crop production. Australian Natural Proteins intends to increase their meat output to capitalise on strengthening prices.

The company will join the Australian Securties Exchange via aback door listing throughits
takeover of Millepede International Proceeds from its capital raising are flagged for ewe acquisitions From a current flock of 6000 , Australian Natural Proteins intends togrow its ewe count to 100,000 . Capacity to meet this objective is provided by existing land and infrastructure. although balance is needed to service mortgages over the properties totalling $\$ 6.5$ million.

Weestimate last year's earnings result offers interest coverage in the order of 2-3 times, although historical financials appear volatile. Using industry trends as a guide, pastoralbusinesses in the company's targeted area of operation have generated average annual returns in the order of 10 per cent over the past 30 years, including capital appreciation.

Realising similar returns will require Australian Natural Proteins to overcome precedents set by other listed rural businesses.

However, significant participation from major shareholders in the present fundraising exercise is a positive start.


The national sheep flock is recovering
from its lowest levels since 1905

# A flying visit ... 

point Danger is the pertect place for bird wateming, with thousands of the Australasian gamnets (Morus serrator) calling the cliftop area home, since overflowing from the nearby Lawrence Rocks more than 10 years ago.
On Fridays a group of lucky people took part in a Summer by The Sea activity organised by the Department of Sustainabillty and Environment, and were able to experience the birds close up.
mer

1. The gannets cover the point. Occasionally birds take oft, wheeling around in the sky above the sea, and then diving into the depths at speeds of up to $100 \mathrm{~km} /$ $h$ to catch tish.
2. The gannets jostle for nesting space on the point, where pairs raise their chicks in relevant safety, protected rom predators, such as loxes, by the resident maremma dogs, Reamma and Alma.
3. Grace Kearney, 9, and Max Wareham, 7, from Hamilton, enjoy their Summer by the Sea experience at the gannet colony.
4. Gus Wareham, 3, gets a hoist up trom brother Max, 7, so he can enjoy a closer look at the gannets.


4


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aODmatac
Bation
Known previous diamond exploration has haken place.

## Food or gas?

OVER the wedrend. the NikKe News Service said phices on imports into Japan of sheep intesthes used for sausage casings - were up 24 per cent year on year. Lamb hom Austrahta is also nsing in price in Tokye stores.

Nikkel says it's a combination of falling Australan and New Zealand sheep populations and soaring temand for meat in Europe, the US and the emerging comitries.

Each day the picturebuilds of a woll running short of food, and prices climbing.

Which brings us to the raging argument now under way between those who wan topreserve fammand (and Australia's food security) and the coal and coalseam gas companies.

Meanwhile, the 60 per cent

CSG produced:

## Tan of phospl

ON another aspect to meet the needs growing populatio analyst Picter Bru maintained his buy phosphate prod makers (MAIK).

Pressure is grow of the fertiliser feed Apart from Chi from exporter to over the next two mas Island and Na exhausted, Canada portertanks, Europ bean importer, Braz about half its phosp ments and the re America - with the Pera-imports it Only Vietnam in e plies allits own ph much of the world's from Noth Africaa East wherecivilume bromby!@theaustr

The writer impliesn recommendation anc contains material the speculative in nature. should seek professic investment advice Tl owns shares in Rio T

A MAN has been killed in a shark attack at a popular surfing spot in the southwest of Western Australia.

The man, in his early 20s, was bodyboarding with tive fiends yesterday alternoon when he was attacked.

They were at sumfing spot the Form, off Bunkex Bay, about $35 / 2$ hours south of Perth.

A police spokesman said the man suffered significant injur les to his lower body.

He died at the scene.
Police had identified him but would not release his name wntil his next-of-kin had been notified.

It is understood the man, onginally from Sydney, had been living in WA for several years.

An onlooker described panic moments after the attack as two
and two young blokes came running up to us trying to get people out," said the woman, who did not want to be named.
"There were mainly surfers in the watex and everyone cleared out pretby quickly.
"People were tust in panic.
"They pulled him out of the water and there was a lot of blood on the beach.
"There was just no hope - he was cut in half:"
In the moments anter the atback, desperate onlookers ran to a nearby home to phone for pollice and ambuLance.

Bunkers Beach Cafe manager Hamish McLeay said the water was full of people when the shark attack happened.
"There were another 20 people in the water as well." he whin

The area is a popular suming and fishing spot known for dangerous nips and sharts.

It is understood cast and crew from the movie Drift had been himing at the same beach the day before.
WA shark expext Hugh Edwards, who is working on his next book, Shatte, said that the victim hxd most hkely been attacked by a great white shark.
"Attacks are comparatively rare but in the last 12 months there've been one at Coogee and two fatals in Gracetown," he said.

He said the nationwide yearly average was about two fatal and half a dozen non-tatal shark attacks. But in 2010 there were about 10 attecks.
"People have stopped catching


to see.
Glenelg Shire mayor Geof white
was not in Portind on Thursday and missed the spectacular but welcomed mussed the spectacuar but welcomed
the visitors and encouraged them to retum.
"I certa
"I certanly welcome the fact they
arived. th is just mother feature of amved. If is just mother feature of
life here in Portand and adds to the atraction of living here when we see

 visithere.
"We are
"We are always ready to welcome

 domphins see fit wotum from sime to
calls about people not being able to
move on the breakwater.
"Police atended and with the assistance of a customs offcer and some mombers
of publie, within 30 minutes we managed to get tratie moving again." Leading Senior Constable Sealey said he witnessed a smmar dolphim extravaganza in the portand harbour
12 to 13 years ago. 12 to 13 years ago.
The porland

The porland Visitor hnomation
Centre staff were also kept busy with calls, visits and inquiries on the dey and Friday
A spo

A spokesperson said people were
calling to see in
 who stayed ovemight returned Friday
morning to say how magnincent it was
 Mr whiams sad in tem of he lan

 permitted to approach the dolphins head
on, or be any closer than 100 metres. on, or be any closer than 100 metres.
Swimmers are not permitted within 30 $\frac{5}{5}$
$\frac{5}{8}$
$\frac{9}{3}$
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5
5
 approach them or get too close, just
enjoy watching them." enjoy watching them."
The swann of colphins stir among the community and police were required po assist with trafic atter the Lee Breakwater became
gridocked. gridlocked.

Leading Senior Constable Graham
Sealey said police recelved gute a few

Environment whone onter Stan
Whliams said the behaviour from the
dolphins was not ucommon. "Dolphins are opportanistic feeders, they have gone past the entrance to the harbour, gone after a school of fish, possible heading in (to the harbour) and found a bonanza bectuse the school was encapsulated and easy to catch." He said similar behzviour had
been observed in Apollo Bay and in Queenselifi harbou, albet on a smaller scale with only a few dozen dolphins There were also reponts from the public of a boat seen in the midst of the dolphins. However, it was also noted that the swarm of dolphins moved
towards a number of boats that were
HUNDREDS of botlenose dolphins swamed in Portand Bay for almost six hours on Thursday aftemoon, delighting onlookers and causing Breakwater and along Bentinck St. The Porthon Observer received the first call reporting the dolphins of
Word quickly spend around the city, with hundreds of poople and cars focking to the Lee Breakyoter and the Ploughed Field to witness the Pomtand Bait and Tackle salesman Paul Benbow said there had been some big sebools or samon in the area Which may have enticed the dolyhins to Porthand and said some fisherman had reported seeng the swarm near Lavrence Rocks eatlier in the ciay. expert Dr Peter Gill said the dolphins could have been either playing or fecding, but if they were feeting he expected they would have been eating
 s8) astuev sumplop hool pue oos a rule) there would be four to hve dolphins under water for very one that was on the surface. He said he had otten seen large groups of them at sea, but it was unusual for them to come into the bay, so close to the harbour.
Mr Benbow said it seemed the dolphins had travelled along the north shore and around to the hatbour.
"They were playing in a circle for a while and slapping their tales and
fumping out of the water, so some umping out of woring were playing and others were fecomg
... About 100 or so of the dolphins were also inside the harbour near the
Portand Aluminum whar?"
Mr Benbow said that when he lef work
 near the Lee Breakwater.

## Oceans are washed up, says repor

POLLUTION and global warming are pushing the world's marine life to the brink of a mass extinction, scientists wam.

Dying coral reets, biodiversity ravaged by invasive species, expanding open-water "dead zones", toxic algae blooms, the massive depletion of big fish stocks - all are accelerating according to a report compiled by 27 of the world's top ocean experts.
The review of recent science found that ocean health has declined further and faster than dire forecasts only a few years ago.
Scientists say these symptoms could be the harbinger of wider disruptions in the interlocking web of biological and chemical interactions called the Earth system

All five mass extinctions of life on the planet, reaching back more than 500 million years, were preceded by many of the same conditions afficting the ocean environment, they said.
"The results are shocking," said Alex Rogers, an Oxford professon who heads the International Program on the State of the Ocean and co-authored the report
"We are looking at consequences for humankind that will impact in our lifetime"
Three main drivers are sickening the global marine environment, and all are a direct consequence of human activity: global warming, acidification and a dwindling oxygen, or hypoxia.


A new report has found that ow marthe llfe is in dilstress

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"The rate at which cal being absorbed is far great than during the last globa nificant extinction of species 55 million years age some 50 per cent of deepwas wiped out," the report:

## 83000 are not far

 mouncement, Alses (ALK) noted on demand, comghtening supply, amaticincrease in ted zircon prices ands companies $0 \$$ US2000/tonne arter while spot 83200/tome, it
## ranges from cer-

 new bathrooms in e substitute in hu(all we geviatmics the production oxychloride (all processes)minerals are see wht ratle and it m strong upward
linerals (MLM) sdy attracted our its scandum in chawelmess meal


B OORRERG.

## Separation processes at Iluka's Douglas mineral sands mining operation

robust: a payback within 22 months, capital cost of 84 million and cashflow after capital over the mine's life of between $\$ 170 \mathrm{~m}$ and $\$ 259 \mathrm{~m}$. Over the planned 12 -year life, the mine is projected to produce 139 milion tonnes of ilmenite, 85,000 tonnes of rutile, 193,000 tomnes of zircon and 93,000 tonnes ofleucoxene.
Meanwhile, Image has moved a drill rig to its Cyclone Extended heavy minerals project in the Eucla Basin to test several new targets.

## Diamonds sparkle

mond projects all over southem Africa No more.
Diamond prices, however, just keep onrising. They jumped more than 15 per centin the first quarter of 2011 (thanks mainly to buyers in China and India) A report at the weekend says that damonds are now being seen in the same safe-haven light as gold and the Swiss franc. High-quality polished diamonds are now fetching record prices in Antwerp.

Joseph Guthick remains one of the few renaining keepers of the diamond flame in this country: his North Australian Diamonds

known previous diamond exploration has taken place

## Pood or gas?

OVER the weekend, the Nikkei News Service said prices on mm ports into Japan of sheep intestines used for sausage casings - were up 24 per cent year on year Lamb from Australia is also rising in price in Tokyo stores
Nikkei says it's a combination of falling Australian and New Zealand sheep populations and soaring demand for meat in Europe the US and the emerging

CSGproduced.

## Tan of phosphate

ON another aspect of food to meet the needs of the: growing population, Intes analyst Pieter Bruinstro maintained his buy on em phosphate producer makers (MAK)

Pressure is growing on of the fertiliser feedstock.

Apart from China swi from exporter to net im over the next two years, ( mas Island and Nauru are exhausted, Canada is joini: porter ranks, Europecontii beanimporter, Brazilstillir about half its phosphate re ments and the rest of America - with the excep Peru - imports its phos Only Vietnam in east Asi plies all its own phosphat much of the world's supply furmar

## MUSTRTuAN Rq/6/t

Asia helped drag the world economy out of the financial crisis, but rising inflation brought on by food price rises means regional policymakers are putting on the brakes just as their help is needed to avoid a double dip, writes Maillol Mayer.

Acouple of clever lateral thinkers at Merrill Lynch first coined the term "agflation" to describe a surge in the price of food commodities from 2007 that sparked riots in many countries and prompted stockpiling and export controls in others.
Four years (and a global financial crisis) later and there are worrying signs that the cost of some agricultural produce is once again spiralling out of control at the worst possible time for a fragile world economy.
Prices for these so -called soft commodities have weakened slightly in recent weeks as part of the turmoil that has shaken global financial markets and wiped \$U S8 trillion off the value of shares worldwide, but they still remain well above the levels they were at a year ago.

The latest issue of the World Bank's Food Price Watch found global food prices in July 2011 were 33 per cent higher than a year earlier, with the cost of basic staples such as maize up 84 per cent and the price of wheat up 55 per cent.

Food inflation is running hot in Asia, prompting policymakers across the region to tighten monetary policy in a determined attempt to bring price gains under control.

Everyone knows the story of Chinese pork prices, with the state-run media this week reporting that the cost of live hogs in August is already about 50 per cent higher than it was a year ago.
That's helped push China's consumer price Index to a three-year high of 6.5 per cent, while across the border in Hong Kong the inflation rate has soared to the fastest pace since 1995:

India is grappling with the same issues, with a benchmark measure of wholesale prices of farm products, including rice and wheat, surging 9 per cent in the first week of August from a year earlier.

The Reserve Bank of India has responded with a savage round of rate rises, hiking borrowing costs in the worlds second-most populous nation 11 times since March last year. It's a similarly worrying picture in other Asian countries, including South Korea, Indonesia, Thailand and Malaysia.

Asia's runaway food inflation isn't welcome news for a global economy struggling to avoid a double-dip recession due to ongoing weakness in the United States and Europe's worsening debt woes.
"Uncomfortably high inflation raises the legitimate concern that policy authorities in Asia now lack the policy space to respond aggressively if downside risks in the US and Europe continue to crystallise," says Richard lley, chief Asia economist at BNP Paribas in Hong Kong. "In other words, Asia will be unable to ride to the global economy's rescue as successfully as it did in late 2008."

That's not the first concern of the World Bank and other multilateral agencies like the United Nations Food and Agriculture Organisation, which are far more worried about the social cost of surging food prices.

Global food prices soared to record highs in 2008 , with much of the increase blamed on speculation on the part of commodities traders rather than any fundamental mismatch between supply and demand.
describes as "extreme poverty". This year's rising food prices threaten to do the same for an additional 44 million people, according to the Washington-based agency.
"Persistently high food prices and low food stocks indicate that were still in the danger zone," Word Bank president Robert Zoellick said earlier this month. "There is no cushion."

Analysts claim that market fundamentals are playing a far more significant role in the current round of commodity price increases, but the consequences remain the same.

The record food prices of 2008 sparked riots in Third World nations including Haiti, Cameroon and the Philippines and prompted some nations to ban exports and hoard grain.
"International agricultural prices have risen once again, with some commodity prices equal to or exceeding peaks seen in 2008," according to a research paper released last month by agricultural economists from Purdue University in the US state of Indiana.
"Higher food prices were politically sensitive and even led to food riots in many countries at price increases much smaller than the increases in world prices," authors Philip Abbott, Christopher Hunt and Wallace Toner write. "Poverty and hunger became worse where domestic food prices rose."

The researchers point to a number of issues that differentiate this year's bout of "agflation" from that which occurred three years ago, including two large and persistent demand shocks resulting from biofuels demand and Chinese soybean imports.

The weather is also playing a bigger role.
"Poor harvests due to weather are more important in 2011 than in 2008," they write. "Price increases are now more consistent with low stocks-to-use ratios."

There are also some longer-term issues at play, with the amount of arable land in some developing economies no longer matching the dietary needs of an increasing affluent middle class. But the other worrying aspect of this year's climb in soft commodity prices, as BNP Paribas points out, is that it is forcing policymakers in Asia to increase interest rates and tighten other policy levers at a time when the world economy's recovery from the worst global downturn since the Great Depression is faltering.

Asia's dynamic economies helped drag the world economy out of the worst of the financial crisis in 2009-10 with a massive injection of monetary and fiscal stimulus.

China alone unveiled a stimulus package worth a colossal 4 trillion yuan ( $\$ 600$ billion) that saw its economy account for half of the global economy's total growth in 2009 and about one-third in 2010.

There are growing signs that the global economy could be falling back into recession, with Nobel laureate Michael Spence last week saying there was now a 50 per cent chance of a contraction in the world economy.

Investment banks are slashing their forecasts for global growth this year, with Citigroup last week lowering its estimate for world gross domestic product expansion in 2011 to 3.1 per cent from the 3.4 per cent it was predicting just last month.
It also slashed next year's forecast to 3.2 per cent from 3.7 per cent.
"This is the seventh biggest monthly cut in Cite's global growth forecasts over the last 10


Food flight $n$.. global wheat price $55 \% 1+16$ On the rise
World Bank Food Price Index (points

promise...

# BOTTOM LINE'S <br> IDe r RX 

## How to unlock the power of foods to prevent and even cure disease!

## STEVEN PRATT, MD and KATHY MATTHEWS



From the Authors of the Best-Selling Super Eest Rx
vitamin $D$ really acts more like a homone in our bodies.)

Studies indicate that men who are exposed to sunlight can delay the onset of prostate cancer by more than five years, and children receiving vitamin $D$ supplementation beginning at the age of one year had an 80 percent decreased risk of developing type I diabetes. Adequate vitamin D intake is associated with a lower risk of hip fractures due to osteoporosis in postmenopausal women. In one study on this problem, neither milk nor a diet high in calcium seemed to reduce the risk.

The most important source of vitamin $D$ is the skin's synthesis of the vitamin from sunlight exposure. People who live far from the equator (and therefore get less sunlight), who use sunblocks, or who have heavy skin pigmentation (African Americans have high melanin concentrations, which limit vitamin D symthesis), all may be at risk for low levels of vitamin D. Sunblocks can cut vitamin D production by about 95 percent. I am not recommending discontinuing using sunscreen, but this is a good reason why you should increase your dietary sources of vitamin $D$.

Interestingly, vitamin D deficiency did not become a health problern until after the onset of the industrial revolution, which led to a decrease in exposure to sunlight as more and more people worked indoors. The major food sources of vitamin D include fatty fish like sardines, salmon and tuna, and fortified foods, particularly cereals and some dairy products.

How do you protect yourself from vitamin 3 deficiency? Add wild salmon, sardines and una to your diet. Try to get about 15 minutes of un exposure to your arms and face at least three imes a week, before 10 A.M. and affer 3 P.M., when he ultraviolet rays are not as damaging to the kin. Also check the labels of any fortified foods ou eat, including cereals, milk and soymilk.

The Food and Nutrition Board has been unable to sette on an RDA for vitamin D. The current recommendations for adequate intakes are: adult males and females ages 19 to 50 should get 200 intemational mits (IU) per day; ages 51 to 70 should get 400 IU a day; over 70 years, 600 IU per day. If you don't get enough vitamin D from all your food sources, you might consider taking a supplement, though you should be careful with vitamin $D$ supplementation, as there is a definite risk of toxicity if you take too much.

## A Fish Story

Wild salmon, and all fish for that matter, used to carry a reliable nutritional benefit. The fish, in their natural habitat, love to eat zooplankton (tiny single-celled organisms), which are a rich source of omega-3 fatty acids. People who ate the fish thus delivered this healthy fat to their eagerly awaiting cells. Sadly, as the oceans have become overished and polluted, the picture has changed. For one thing, U.S. Atlantic salmon are virtually extinct. (Most Arlantic salmon sold in the U.S. is farm raised.) Even worse from a health standpoint, some cold-water fish are contaminated with mercury. These include swordfish, shark, tilefish and king mackerel. Avoid eating these fish.

Approximately eight percent of women in the U.S. between the ages of 16 and 49 have mercury concentrations higher than the U.S. Environmental Protection Agency's recommended reference dose.
"In general, haddock, tilapia, salmon, cod, pollock, canned abacore tuna, sole and most shellfish are relatively low in mercury.

Today, farmed fish have come to dominate many sectors of the market. You've no doubt noticed a wide variation in the price of salmon, from very inexpensive farmed salmon to very expensive, fresh Alaskan salmon. Many environmental groups

#  Snapper ban sunk for good 

THE State Government has yowed its deeply umpopular suapper ban will never be repeated following the announcement of new fishing regulations to ensure the long-term survival of the species.
The ban, which was in place for six weeks earlier this year, was slammed by industry and recreational anglers on
the Gold Coast, who claimed it was not backed by scientific evidence and was done at the wrong time of the year.
There had been speculation another ban would be enforced next year, as Fisheries Minister Craig Wallace studied the 72 public submissions on the survival of snapper, but that was ruled out yesterday.

## $20 / 511$ <br> World must conserve marine stocks, warns Prince Charles

THE Prince of Wales has wamed the public to urgently change its attitude to sustaining the world's oceans and fish reserves.
Speaking at the launch of a project to raise awareness of over-fishing and marine conservation, Prince Charles said there seemed to be an out of sight and out of mind attitude goveming the public's mentality towards the ocean.
He wamed that marine life has "a profound bearing" on the planet's "life-support systems" including the absorption of carbon dioxide and the production of a vast quantity of seafood.
Speaking about the importance of the ocean as a food source, he said: "This is more important than ever today, as our population continues to grow and our demand for jobs and development remains apparently insatiable.
"In other words, sustaining the oceans and the vast natural capital they sustain would enable us to meet more needs, not less.
"I find it surprising, to say the least, how in some quarters this conclusion is still regarded with evident scepticism."
His comments came after he toured the
retaller Selfridges in London to mark the opening of Project Ocean, an initiative to heighten the publics awareness of marine issues such as over-fishing, marine protection and sustainability.
The project is a partnership between Selfridges, the Zoological Society of London and the Marine Conservation Soclety.

The prince's comments come amid warnings by conservationists that on current levels of fishing, all major fisheries could collapse by 2050.

Celebrity chef Hugh Fearnley-Whittingstall, who has created a sustainable fish recipe booklet, spoke with the prince about the issues facing the ocean.
The television chef backed proposals to stop UK fishermen throwing half their catch into the North Sea. He also works to raise awareness of using more sustamable fish when cooking, such as mackerel instead of cod.
He is joined in his support by a host of well-known chefs, including Mark Hix and Giorgio Locatell, who will hold cooking demonstrations to promote the message of "voting with your fork" and avoiding consumption of unsustainably caught fish.

## Nelson fish trave to Murray mouth and back again <br> HUW CUSMINC

A MULLOWAY from Nelson's Gleneig Rivet surprised Melbourne scientists by swimming tt mouth of the Murray in South Australia and again.
The super-fish was one of 30 tagged by Depart of Sustainability and Environment scientists the Arthur Rylah Institute to understand distinct trovements within the estuary and why the populat fish are smaller in size compared to other Victu populations.
DSE native fish ecologist Jason Liescke says earliest belief was WA and SA had the same Mulk population and NSW and Victoria was a sep population, but the Glenelg River fish and fis the Porland area prove there is an overlap in spt populations.
Scientists at The University of Adelaide are looking into the genetic structure of the mullows see if there are sub-populations within throughou Australian species.
"This work has significantly increased our know, of how the mulloway behaves and the tags are expe to keep going for another six months," he said.
While the monumental effort recorded by a single was unexpected by the DSE team, some local ans had their suspicions, Mr Liescke said.
"Some locals thought they might have come from Murray mouth before they actually moved into Glenelg River in the first place," he said.
Mr Liescke said the movements of the fish could explain the schooling population in the Glenelg $R$ as the fish may possibly move out to sea to spawn. Of the 30 tagged, another two made the 400 -kilort trip to the Murray mouth without returning - on them was caught and reported by a local angler.
As well as internal tracker's in the guts of the external tags with an 1800 number have been applie anglers can either retum the fish to the water or cor the DSE to report the catch. swanged 8uqy y pue








 more fishing reefs like those off Frankston, Seaford and fish or stocking more frequently and plaming to build

 said last year's forums had generated dozens of good





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## Oceans are washed up, says report

POLLUTLON and global warming are pushing the worlds marine life to the brink of a mass extinction, scientists warn.
Dying coral reefs, biodiversity ravaged by invasive species, expanding open-water "dead zones", toxic algae blooms, the massive depletion of big fish stocks - all are accelerating, according to a report compiled by 27 of the world's top ocean experts.
The review of recent science found that ocean health has declined further and faster than dire forecasts only a few years ago.
Scientists say these symptoms could be the harbinger of wider disruptions in the intertocking web of biological and chemical interactions called the Earth system.
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Oceans act as a sponge, soakinc up more than a quarter of the CO humans pump into the atmos:phere. When the sponge becomes saturated, it can disrupt the dellcately balanced ecosystems on which marine life - and ultimately all life on Earth - depends.

The rate at which carbon is being absorbed is far greater now than during the last globally significant extinction of marine species 55 million years ago, when some 50 per cent of deep-sea life was wiped out," the report says.

knt Ockentels of the Spil where he scys themen hove been constenty toking undersized fish

# Anglers ignore size limits 

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PURIOUS fishemen are urging anglers to toe the line when it comes to legal fish sze and bag limits.
Kurt Ockenfels from Brisbane Fishing Ooline said he was disgusted at what he saw during a recent fishing trip to the sand pumping jetty at The Spit.
"It angered me that people were being so blatant about not following the limits," Mr Ockenfels said.
"Most of them had their

## masleret

- More than 51,000 Sun recders enioy getting outdoors and "wetting' a line on a reguar bosis.

Roy wrom bexemosh

- S
quota, but they still kept catching and keeping.
"There was no way in the world some of these fish were legal," he said.
Mr Ockenfels said something had to be done to ensure the future of the pastime.
"There are so many people out there that do not give two hoots so I'm on a
bit of a crusade at the moment," he said.
"Something has to be done, whether it is something as small as putting up a measures board to stop this kind of thing going on."
The 28 -year-old has been fishing since be was five and said although it would be unpopular, introducing a recreational licensing system i


## From the files of yesteryear <br> No 168 <br> By GWEN BENNET

## 50 years ago October 19,1961

## Large couta haul

ONE of the biggest hauls of barracouta for many years has taken place at Portland during the last nine days. One boat alone caught more that 82 dozen, equal to one and a half tons of fish, in a single day's fishing. Most of the boats in one day have caught as much as 30 dozen fish. The South Australian Fishermen's Co -operative depot at Portland has been handing between two and a half and three tons of barracouta a day. The depot is transporting the fish to its Adelaide cannery by road. Before being sent on its journey from Portland, the fish are first chilled and then iced down.

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## Jetty sheds

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Pish reeled in
SNAPPER fishing restrictions will be overhauled from September Fisheries Minister Catig Wallace said laws would be changed later this year to ensure the moratorim fros earlier this year did not hav to be repeated. "In close consultation with ishers wr have come up with changes to protect some of the most popular commercial and recreational species," Mr Wallace said. "I personally oversaw the consulations I ensure community views were heard." " The change cone in from September 1 and include reducing the bag limit from five to four and only one fish over 70 c will be allowed
PRCUE: INGA WHLAMS

## NEW RESTRICTIONS

- Tailor-minimum of 35 cm with a bag init of 20 .
- Pikey and Yellowin Brear-minimum of 25 cm with a combined limit of 30 . - Luderick-minimum of 30 cm with a bag imit of 10 . - All flathead fexcept dusky flathead) - minimum of 30 cr with a bag lint of five. - Dusky fiathead minimum of 40 cm and maximum of 75 cm with a bag limit of five.
- Snapper (current) minimum of 350 cm wh a bat fint of five.
A complete list is available a whw apigldgovau
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might be the best way to ensure anglers followed the laws.
"With fishing a lot of people say they didn't know, but if you had a licence to fish if you had a licence to fish
there would be no way of getting out of it," he said.
A. Fisheries Queensland spokeswoman said size and bag limits were crucial to ensuring huture fish stocks.
The spokeswoman said 16 on-the-spot fines had been issued to Gold Coast fishermen in the past three months for breaches including size and bag limits. "w


 (a) on their risk profile, But next year, they get the fish out into the ocean and a few more survive, the share
price isn't going to stay at $10 c^{\prime \prime}$
Shares in the $\$ 55$ milion small
 than this time last year, up 0.02 per cent at 11.5 c .
"If you wait "If you wait until they are producing and generating returns,
the share price will be a lot higher
han it is now, Mr Welsh said.
Clean Seas shares spiked in June
after news the company had achieved
 bluefin fingerlings to sea cages.

company was on track in its
spawning program at the maximum
advised rate.
Next seaso
Next season's spawning program
has been brought forward to

quicker growth of juveniles during
June 2010 pretax loss.
Mr Welsh said the comp
Mr Welsh said the company should about 2017
With a proven production track record, Atlantic salmon and ocean tront producer Tassal provides investors with an opportunity to
invest in the burgeoning acquafarming industry without the 8.5
8.5
85
Demand for the product is high
and is likely to increase with fishing
quotas under stress.
Management forecast full-year pre-tax losses to be between 35 pe cent and 45 per cent better than the
start to make material eamings by


## Qula five fer Claire Stewant

epletion of global fish stocks is
driving innovation and
development in domestic
aquafarming, spawning atractive
growth opportunities for risk-
tolerant investors.
Clean Seas Tuna has set itself
apart as the first to edge closer to
successiully famming southern
oluefin tuna, an encouraging feat given bluefin are known to have quirks that make farming them
BBY analyst John Welsh expects
the company to be selling bluefin" in some capacity" during the 2014 financial year before it reaches full production.
"静's up to investors when they
want to dip their toe in, depending

## from reel Victorians

RECREATIONAL anglers can have their say bout fisheries management issues at 12 roundtable orums
reingheld across Victoria in May and June, including
This is the third year that Fisheries Victoria has toured egional Victoria listening to anglers and updating them bout what is happening with their fisheries. aid last year's forums had generated dozens of good "We have taken many of these ideas on board and mplemented them," Mr Hurst said.

These include stocking larger numbers of freshwater ish or stocking more frequently and plamning to build
nore fishing reefs like those off Frankston, Seaford and Aspendale. -The firl Wednestay, May 11 and the final one at the Bendigo Nednesday, May 11 and the final one at the Bendigo
egion Angling Club on Thurscay, June 30 ," he said. The Portland meeting will be in the Portland Arts Sentre, on the comer of Glenelg and Bentinck streets. it 7 pm on May 18.

These meetings are a great way for anglers to suggest mprovements for their sport. Come along and learn nore about developing new fisheries, fish stocking in waters recovering from drought and floods, what local
risheries Officers have been doing and inf mprovements in your area such as fish cleaning tables
met nd fishing platforms.

We want all fishers to contribute new project ideas
hat enhance fishing across the state," Mr Hurst said.

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# AUSTBNLMN $29 / 8 / 1$ <br> Asia helped drag the world economy out of the financial crisis, but rising inflation brought on by food price rises means regional policymakers are putting on the brakes just as their help is needed to avoid a double dip, writes Michael Owyer. 

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Asia's runaway food inflation ismt welcome news for a global economy struggling to avoid a double-dip recession due to ongoing weakness in the United States and Europe's worsening debt woes.
"Uncomfortably high inflation raises the legitimate concern that policy authorities in Asia now lack the policy space to respond aggressively if downside risks in the US and Europe contimue to crystallise," says Richard Hey, chief Asia economist at BNP Paribas in Hong Kong. "In other words, Asia will be unable to ride to the global economy's rescue as successfully as it did in late 2008."
That's not the first concern of the World Bank and other multiateral agencies like the United Nations Food and Agriculture Organisation, which are far more woried about the social cost of surging food prices.
Global food prices soared to record highs in 2008 , with mach of the increase blamed on speculation on the part of commodities traders rather than any fundamental mismatch between supply and demand.
The World Bank estimates higher food. metc thas vear nushed wo to 105 million
describes as "extreme poverty". This year"s rising food prices threaten to do the same for an additional 44 million people, according to the Washington-based agency.
"Persistently high food prices and low food stocks indicate that were still in the danger zone," World Bank president Robert Zoellick said earlier this month There is no cushom,"

Analysts claim that market fundamentals are playing a far more significant role in the current round of commodity price increases, but the consequences remain the same.

The record food prices of 2008 sparked nots in Third World nations including Haiti, Cameroon and the Philippines and prompted some nations to ban exports and hoard grain.
"Imternational agricultural prices have risen once again, with some commodity prices equal to or exceeding peaks seen in 2008," according to a research paper released last month by agricultural economists from Purdue University in the US state of Indiana.
"Higher food prices were politically sensitive and even led to food riots in many countries at price increases much smaller than the increases in world prices," authors Philip Abbott, Christopher Hunt and Wallace Tyner write. "Poverty and hunger became worse where domestic food prices rose."

The researchers point to a number of issues that differentiate this year's bout of "agflation" from that which occurred three years ago, including two large and persistent demand shocks resulting from biofuels demand and Chinese soybean imports.

The weather is also playing a bigger role.
"Poor harvests due to weather are more important in 2011 than in 2008," they write. "Price increases are now more consistent with low stocksto-use ratios."
There are also some longer-term issues at play, with the amount of arable land in some developing economies no longer matching the dietary needs of an increasing afflwent middle class. But the other worrying aspect of this year's climb in soft commodity prices, as BNP Paribas points out, is that it is forcing policymakers in Asia to increase interest rates and tighten other policy levers at a time when the world economy's recovery from the worst global downturn since the Great Depression is faltering.
Asia's dynamic economies helped drag the world economy out of the worst of the financial crisis in $2009-10$ with a massive injection of monetary and fiscal stimulus.
China alone unveiled a stimulus package worth a colossal 4 trillon yuan ( $\$ 600$ billion) that saw its economy account for half of the global economy's total growth in 2009 and about one-third in 2010.
There are growing signs that the global economy conld be falling back into recession, with Nobel laureate Michael Spence last week saying there was now a 50 per cent chance of a contraction in the world economy.
Investment banks are slashing their forecasts for global growth this year, with Ctigroup last week lowering its estimate for world gross domestic product expansion in 2011 to 3.1 per cent from the 3.4 per cent it was predicting just last month

It also slashed next year's forecast to 3.2 per cent from 3.7 per cent.
"This is the seventh biggest monthly cut in Citis global growth forecasts over the last 10 vears." Ctigroup chief economist Willem


Food flight . . global wheat prices were 53 H HCHEn On the rise
Wond Bank Food Price Index (peints)



## Snapper ban sunk for good

THE State Government has vowed its deeply unpopular snapper ban will never be repeated following the amouncement of new fishing regulations to ensure the long-term survival of the species.
The ban, which was in place for six weeks earlier this year, was slammed by industry and recreational angless on
the Gold Coast, who claimed it was not backed by scientific evidence and was done at the wrong time of the year.
There had been speculation another ban would be enforced next year, as Fisheries Minister Craig Wallace studied the 72 public submissions on the suryival of snapper, but that was ruled out yesterday.

## 201511 <br> World must conserve marine stocks, warns Prince Charles

THE Prince of Wales has wamed the public to urgently change its atitude to sustaining the world's oceans and fish reserves.
Speaking at the launch of a project to raise awareness of over-fishing and marine conservation, Prince Charles said there seemed to be an out of sight and out of mind attitude governing the public's mentality towards the ocean.

He wamed that marine life has "a profound bearing" on the planet's "ife-support systems" including the absorption of carbon dioxide and the production of a vast quantity of seafood.
Speaking about the importance of the ocean as a food source, he said: "This is more important than ever today, as our population continues to grow and our demand for jobs and development remains apparently insatiable.
"In other words, sustaining the oceans and the vast natural capital they sustain would enable us to meet more needs, not less.
"I find it surprising, to say the least, how in some quarters this conclusion is still in sogarded with evident scepticism"
His comments came after he toured the
retailer Selfridges in London to mark the opening of Project Ocean, an intiative to heighten the public's awareness of marine issues such as over-fishing, marine protection and ststainability.
The project is a parmership between Selfridges, the Zoological Society of London and the Marne Conservation Society.
The prince's comments come amid warnings by conservationists that on current levels of fishing, all major fisheries could collapse by 2050.
Celebrity chef Hugh Feamley-Whitingstall, who has created a sustainable fish recipe booklet, spoke with the prince about the issues facing the ocean.
The television chef backed proposals to stop UK fishermen throwing half their catch into the North Sea. He also works to raise awareness of using more sustainable fish when cooking, such as mackerel instead of cod.
He is joined in his support by a host of well-known chets, including Mark Hix and Giorgio Locatell, who will hold cooking demonstrations to promote the message of "voting with your fork" and avoiding consumption of unsustainably caught fish.

## monsomemas 26/8/16

# Nelson fish trave to Murray mouth and back again 

## HUW CUSNING

A MULLOWAY from Nelson's Glenelg Riv surprised Melboume scientists by swimming mouth of the Murray in South Australia anc again.
The super-fish was one of 30 tagged by Depa of Sustainability and Environment scientists the Arthur Rylah Institute to understand distin movements within the estuary and why the popul fish are stmaller in size compared to other Vit populations.
DSE native fish ecologist Jason Liescke sa earliest belief was WA and SA had the same Mu population and NSW and Victoria was a se population, but the Glenelg River fish and 1 the Portland area prove there is an overlap in s populations.
Scientists at The University of Adelaide ari looking into the genetic structure of the mullor see if there are sub-populations within through Australian species.
"This work has significantly increased our knor of how the mulloway behaves and the tags are ex to keep going for another six months," he said.
While the monumental effort recorded by a sing was unexpected by the DSE team, some local i had their suspicions, Mr Liescke said.
"Some locals thought they might have come fri Muray mouth before they actually moved in Glenelg River in the first place," he said.
Mr Liescke said the movements of the fish cou explain the schooling population in the Gleneig as the fish may possibly move out to sea to spaw. Of the 30 tagged, another two made the 400 -kil trip to the Murray mouth without returning -i them was caught and reported by a local angler.
As well as internal tracker's in the guts of th. external tags with an 1800 number have been app anglers can either return the fish to the water or $c$ the DSE to report the catch.





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 fish or stocking more frequently and planning to build
more fishing reefs like those off Frankston, Seaford and These include stocking larger numbers of freshwater
fish or stocking more frequently and planning to buid "We have taken many of these ideas on board and
implemented them,"Mr Hurst said. said last year's forums had generated dozens of good
ideas. Fisheries Victoria executive director Anthony Hurst
said last year's forums had generated dozens of good

 being held across Victoria in May and June, including
one in Portland on May 18 . about fisheries management issues at 12 roundtable
forums RECREATIONAL anglers can have their say
about fisheries management issues at 12 roundtable
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investors may be swimming in in if Clean Seas Tuna succeeds in the conmercial production of the highly valued sowthem bluef
Fishing for growth in aquacul

Small caps<br>Ciaire Stewart

Depletion of global fish stocks is driving imnovation and development in domestic aquafarming, spawning attractive growth opportunities for risktolerant investors.

Clean Seas Tuna has set itself apart as the first to edge closer to successfully farming southern buefin tuna, an encouraging feat given bluefin are known to have quirks that make farming them difficult.
BBY anaiyst John Weish expects the company to be selling bluefin "in some capacity" during the 2014 financial year before it reaches full production.
"It's up to investors when they want to dip their toe in, depending
on their risk profile. But next year, if they get the fish out into the ocean and a few more survive, the share price isnt going to stay at 10 e ."

Shares in the $\$ 55$ million small cap company are marginally higher than this time last year, up 0.02 per centat 11.5 s .
"If you wait until they are producing and generating returns, the share price will be a lot higher than it is now," Mr Welsh said.

Clean Seas shares spiked in June after news the company had acheved a world first in transferring southem buefin fingerlings to sea cages.
Management confirmed the company was on track in its spawning program at the maximum advised rate.

Next season's spawning program has been brought forward to December and should allow for quicker grow h of juveniles during mortality rates during winter.
Mr Welsh said that ultimately, the company would succeed because they had the research which allowed them to spawn and transfer fish to the ocean pens where they could mature.

Demand for the product is high and is likely to increase with fishing quotas under stress.

Management forecast full-year pretax losses to be between 35 per cent and 45 per cent better than the June 2010 pre-tax loss.

Mr Weish said the company should start to make material earnings by about 2017.

With a proven production track record, Atiantic salmon and ocean trout producer Tassal provides investors with an opportunity to invest in the burgeoning acquafarming industry without the


PRESH LISh is the latest batileground in the supermarket war, with Coles vowing to strip its fricges of unsustainable breeds.
Affer skirmishes over hemone-free beef dad cutprice milk and bread, Coles aims to boost its green credentials with "Sustainable Choices stickers on fresh, wild-caught Hish.
In the past yeaz Coles and Woolworths have bamned endangered fish such as yellowin huna and orange roughy.
But now Coles whl phase

## WEWDY HARCREAVES

Food editor
out all unsustamoble species by 2015 .
"Were taking the guesswonk out of buying sustainable fish," Coles spoltesman Jon Church said. "Customers want to do the night thing, but in's not easy to figure out what is sustainable and what isnt:" The decision is timed to coincide with Lent and Easter, when fresh fish sales jump 85 per cent.

The company expects the
camparin to boost sales by another 20 per cent.
Coles furned to the World Whalife mund to set its fishery benchmarks, while Woolies joined forces with the Sustanable Fishenes Partnersioip Foundation.
Both supermarket chains have committed to helping fisheries win international accreditation from the Mamine stewardship Coumed.
Coles then upped the ante, asking WWW manine scientists to investigate 300 fish 橧 sold.

The 12-month study identified a "red list" of 33 .
But this is where the waters get muddy.
Fish species deemed wnsustainable may be low in numbers one year and flourishing the next, or plentifu in one region but not another.

Local snapper, calaman, garfish and sardines catght in Victonia's bays and inlets have been put on Coles' red list, not because of environmental damage, but because the local industries had no harvest
strategies or catch ree
After introducing fresh, whl-cau sustainability stic Coles will move o farmed and frozen fisi crustaceans

But hishmonger Kyzintas described new Coles campalen big gimmick"

Their product will be as good as the frees We sell at the market," Mr Kyzintas, pari-own stalls at Queen Victor: South Melboume mar Sunday Food. Play III


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[^1]:    Inside
    

