In the ARMI now: the yellow-legged frog is one of many amphibians under threat.

of Health and the Environmental Protection Agency, also took part.

Under ARMI, the nation has been divided into seven regions of particular amphibian characteristics, says Daniel James, a USGS wildlife biologist who is coordinating the programme. Government agencies had strong herpetological staff in four regions, but not in the Mississippi River Valley or the Northeast, so the department is seeking new scientists to augment its resources.

Initially, researchers will survey many sites in large sections of National Parks, National Wildlife Refuges and Bureau of Land Management areas. They will then focus on a few species at a limited number of locations in an attempt to determine what ecological factors are contributing to the declines and deformities.

The ARMI effort is taking place at a time when scientists around the world are seeking better understanding of the broad declines taking place in global amphibian populations. Pollutants, increased amphibian susceptibility to disease, and decreases in the ozone layer are all being considered.

An international group of scientists, the Declining Amphibian Populations Task Force, has played a major role in spurring amphibian research. ARMI is to become the permanent home of an amphibian atlas that is now being developed, officials said.

In addition, federal officials have hired an amphibian pathologist at the National Wildlife Health Center in Madison, Wisconsin, to focus on the role of disease. ARMI also complements an on-going three-year amphibian study by the NSF, which is already providing \$3 million to 13 universities to study the causes of species declines.

Green light for plans to sell off US helium reserve

Colin Macilwain, Washington

The US government's plans to privatize the nation's helium reserve have been backed by a panel at the National Research Council (NRC). Some physicists had attacked the proposals because of the limited supply of this inert gas. But the NRC panel found that privatizing the reserve would not harm long-term supplies to researchers and other users.

The national reserve holds 30 billion cubic feet of helium — enough for ten years at current usage rates. The gas is extracted from natural gas supplies in the United States, and the physicists were worried that there would be no other source when these supplies are exhausted. Helium is used mainly for industrial cleaning and welding, and for cryogenic research.

A statement issued in 1995 by the American Physical Society (APS) expressed "profound concern" about the sale of the reserve, noting that the supply of helium has "severe natural limits". Despite this, legislation was passed in 1996 to sell off the reserve, subject to a report from the NRC and subsequent consultations with helium users.

The panel's report dismissed the physicists' concerns. The panel found that "the Helium Privatization Act of 1996 will not have a substantial impact on helium users". This clears the way for the sale of the reserve.

APS officials endorsed the composition of the NRC panel, which was chaired by Ray Beebe, a consultant engineer, and John Reppy, a physicist at Cornell University, and are expected to accept its findings.

According to Beebe, the panel looked at

other materials whose sole source is as a by-product of another commodity — including several rare metals that are only extracted as offshoots of copper mining — and concluded that such supply restrictions were unlikely to lead to a helium shortage.

The panel also found that most of the current demand for helium was being met by sources independent of the national reserve. To safeguard long-term supplies of the gas, the NRC panel recommends more research into natural gas fields with high helium content, and on helium conservation and recycling.

Asked if physicists were wrong to say that the privatization would endanger their helium supplies, Beebe said: "People who are focused on their own work will naturally be very protective of it."

♦ <http://books.nap.edu/catalog/9860.html>

UK labs impeded by old equipment

Natasha Loder, London

More than half of the university laboratories in the United Kingdom are using outdated equipment, according to a report from Manchester University's Policy Research in Engineering, Science and Technology Institute. It says that at least £600 million (US\$885 million) is needed to bring essential research facilities up to date.

The study looked at four research-intensive universities and analysed applications for recent bids to a special £750 million research infrastructure fund. It found that that two-thirds of departments had critical experiments they were unable to perform because of a lack of equipment.

Several department heads said their research strategies were driven by existing or

prospective non-availability of equipment. The study also found that the fund, intended to remedy a two-decade hole in underfunding of research infrastructure, was hugely oversubscribed, falling far short of what is needed and leaving many applications rated 'excellent' unfunded.

The work was commissioned by the Committee of Vice Chancellors and Principals (CVCP), which represents the heads of UK universities. It was intended to focus minds at the Treasury, which is reviewing all areas of government spending before allocating funding for the next three years. Diana Warwick, the CVCP chief executive, describes the findings as "important", and emphasizes the "urgent need to address basic funding priorities for UK universities".