

FY 2010 Background Information

NSF Funding for FY 2010 was decided through the regular appropriations process resulting in a significant drop in funding for NSF versus the FY 2009 level. Recall in FY 2009, through the American Recovery and Reinvestment Act of 2009 (ARRA), \$2.4 billion dollars was added to the NSF budget bringing the total FY 2009 NSF budget to over \$8.8 billion and increasing the Division of Mathematical Sciences (DMS) budget by almost \$100 million for a total of \$322.18 million. For FY 2010, the NSF appropriated budget is \$6.87 billion and the DMS budget is \$241.38 billion.

The Department of Energy (DOE) received ARRA funds, but those programs supporting mathematics were not affected. Mathematics is supported at DOE mainly through the Applied Mathematics and Scientific Discovery through Advanced Computing (SciDAC) programs of the Office of Advanced Scientific Computing Research (ASCR). For FY 2010 the Applied Mathematics budget is \$44.79 million and the SciDAC budget is \$53.29 million.

National Science Foundation (NSF)

NSF FY 2011 Budget Request

The President's FY 2011 Budget Request asks for a budget of \$7.424 billion for NSF.

FY 2011 Division of Mathematical Sciences Budget Request

The FY 2011 NSF Budget Request includes \$253.46 million for DMS

House – Senate Action on NSF Budget

The House Commerce, Justice, Science and Related Agencies Appropriations Subcommittee (CJS) has approved an FY 2011 budget of \$7.424 billion for NSF, the same level as the Budget Request.

The full Senate Appropriations Committee has approved a FY 2011 budget of \$7.353 billion for NSF, \$71 million below the Budget Request.

Further action on the House and Senate CJS bills is likely to be delayed until after the November election. A Continuing Budget Resolution (CR) will be necessary to run the government agencies under CJS jurisdiction from October 1, 2010 until Congress decides to pass the bill. Other appropriations bills will be under the CR as well. Depending on what happens in November, there could be a CR until the new Congress convenes in 2011.

DOE Office of Science (SC)

Funding for the mathematical sciences in DOE SC comes from the office of Advanced Scientific Computing Research (ASCR) through two activity areas: Applied Mathematics and Scientific Discovery through Advanced Computing (SciDAC).

FY 2011 Applied Mathematics Budget Request

\$45.45 million

FY 2011 SciDAC Budget Request

\$53.30 million

House – Senate Action on DOE SC Budget

The House Energy and Water Appropriations Subcommittee has approved an FY 2011 budget of \$4.9 billion for DOE SC. This is \$221 million lower than the \$5.121 billion for SC in the FY 2011 DOE Budget Request and \$4 million below the FY 2010 enacted level. Since ASCR is part of DOE SC, this reduction, if

not changed in final deliberations, may reduce the funding for the Applied Mathematics and SciDAC programs from the Request level.

The full Senate Appropriations Committee has approved a FY 2011 Office of Science Budget of \$5.012 billion, an increase of \$108.3 million over the FY 2010 enacted level, but \$109.4 below the Budget Request. Under the bill, ASCR would be funded at \$418 million, \$24 million over the FY 2010 ASCR enacted level, but \$8 million below the Budget Request level for ASCR. This reduction from the Budget Request could also reduce the final budgets of the Applied Mathematics and SciDAC programs.

The final passage of the Energy and Water Appropriations bill may also be delayed until after November.

In contrast to NSF where almost all its budget goes for academic research, on a yearly basis, only \$4 million to \$7 million of the DOE budget goes to academic research in the mathematical sciences, according to an ASCR official.

November Election

It is likely that very few appropriation bills will be passed before the November election. Most agencies could be funded based on a Continuing Budget Resolution (CR) until the end of the current year. This means that agency budgets will be at or below FY 2010 levels for the duration of the CR.

America COMPETES Reauthorization

Both the House and Senate have taken up the reauthorization of the America COMPETES Act. This Act was first passed in 2007. The original bill put the budgets of NSF and the DOE Office of Science (SC) on a doubling trajectory.

House COMPETES bill:

http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=111_cong_bills&docid=f:h5116rfs.txt.pdf

COMPETES reauthorization has been passed by the House.

For NSF the Bill authorizes five years of funding:

FY 2011 - \$7.481 billion
FY 2012 - \$8.127 billion
FY 2013 - \$8.764 billion
FY 2014 - \$9.436 billion
FY 2015 - \$10.161 billion

For SC and the ASCR program within SC the bill authorizes:

FY 2011 - \$5.247 billion for SC and \$466 million for ASCR
FY 2012 - \$5.614 billion for SC and \$503 million for ASCR
FY 2013 - \$6.007 billion for SC and \$544 million for ASCR
FY 2014 - \$6.428 billion for SC and \$587 million for ASCR
FY 2015 - \$6.878 billion for SC and \$634 million for ASCR

Senate COMPETES bill:

http://commerce.senate.gov/public/?a=Files.Serve&File_id=165c97be-9c4d-4e59-8c93-3ef4943a91e7

The Senate Commerce, Science, and Transportation Committee has passed its version of America COMPETES with the following budget levels for NSF:

FY 2011 - \$8.254 billion
FY 2012 - \$9.073 billion

FY 2013 - \$9.943 billion

The Senate Commerce, Science and Transportation Committee reauthorized COMPETES for three years versus five years in the House. DOE was not considered in this bill. DOE authorization will be taken up by the Senate Energy and Natural Resources Committee at a later date with the results added to the Commerce Committee's version of COMPETES. This will be done before the bill goes to the Senate floor.

Keep in mind authorization at these budget levels do not guarantee appropriations at these levels. The original COMPETES Act of 2007 authorized a FY 2010 NSF budget of \$8.132 billion, yet the FY 2010 appropriated budget of NSF is \$6.873 billion. The hope is that these authorization numbers will be an incentive for Congress to keep the NSF and SC budgets on a doubling track.