## Program Performance Measures<sup>1</sup>- FY 2008

Term	Туре								
Annual	Output		lumber of new A that are deve				at the STEM skills needed		
		NASA's		ace explorat	ion mis	sions. N	based on the results of ew courses are developed rs and MUREP.		
		Year	Target	Actual	State				
		2006	60 Courses 1	10 Courses					
		2007	60 Courses 9	99 Courses					
		2008	60 courses						
		2009	60 Courses						
		2010	60 Courses						
		2011	60 Courses						
Annual	Output	Explan capacity duplicat Space (C EPSCoR per the Year 2006 2007 2008	ation: Twenty //capability bui ed count of ins Grant, MUREP, a as determined NASA EPSCoR <b>Target</b> 132 institution 132 institution	-five states p Iding progra stitutions ser and GSRP. I by the Nati legislation. Actuns 132 instituts s 200 instituts	participa m, EPSC ved by Data ref onal Sci nal tutions	ate in NA CoR. Da the follo lect the	I EPSCoR states. ASA's research ta comprise a non- wing programs: EPSCoR, states eligible for NASA undation EPSCoR Program		
		2009	132 institution				-		
		2010	132 institution				-		
		2011	132 institution	าร					
Annual	Output	<i>Text</i> : Number of underrepresented and underserved students participate in NASA education programs. <i>Explanation</i> : These graduate and undergraduate students are served be Space Grant and MUREP. Actual number includes students that participate in courses, scholarships, events, travel, lectures and sponsored competitions.							
		Space C in cours	Grant and MURI	EP. Actual nu	umber ir	ncludes	students that participate		
		Space C in cours	Grant and MURI	EP. Actual nu	imber ir avel, le	ncludes	students that participate		
		Space ( in cours compet	Grant and MURI ses, scholarship itions.	EP. Actual nu os, events, tr Actu	umber ir avel, le al	ncludes ctures a	students that participate		
		Space ( in cours compet	Grant and MURI ses, scholarship itions. Target	EP. Actual nu os, events, tr Actus s 8,500 stu	umber ir avel, le al idents	ncludes ctures a	students that participate		
		Space ( in cours compet Year 2006	Grant and MURI itions. Target 8,500 student	EP. Actual nu os, events, tr Actual s 8,500 stu s 9,746 stu	umber ir avel, le al idents	ncludes ctures a	students that participate		

<sup>&</sup>lt;sup>1</sup> Out-year targets pending final OMB concurrence. Submitted to OMB 1-4-08.

Term	Туре							
		2010	8,500 students	;				
		2011	8,500 students	; ;		_		
Long-term	Output	content Explan such as Resource experie	ation: Educator downloading fr ce Centers and (	sources in the rs obtain NAS om the web, CORE, and the erials are der	e classroom. A STEM resc obtaining ma rough direct nonstrated.	ources in a number of ways aterials from NASA Educator participation in training Feedback from these		
		Year	Target	Actual	State			
			FY07 actual	55%				
		2008	baseline plus 3	%				
		2009	baseline plus 4	%				
		2010	baseline plus 5	%				
		2011	baseline plus 1	0%				
		<b>Explanation</b> : The 350 number includes members from the NASA Muser Alliance (MA), Space Place Network (includes partners in every state e.g. community museums, libraries, planetariums, zoos and aquariums) the Smithsonian, NASA Visitor Centers, earmark recipients and Office of Education special projects (e.g. major events by the NASA Office of Communications Planning that engage the public in selected major NASA events). NASA's budget request reflects a reduction each year through 11. NASA's objective is to continue serving the same number of participants, despite these funding reductions, through achievement of efficiencies.						
		Year	Target	Actual	State			
		2006	350 museums	350 museur	ns			
		2007	350 museums	350 museur	ns			
		2008	350 museums					
		2009	350 museums					
		2010	350 museums					
		2011	350 museums					
Long-term	Outcome	contrac <i>Explan</i> projects who ha internsl	tors, universitie <b>nation</b> : Baseline s within the Offi- ve received scho- nips of at least	s, & other edu includes nati ce of Educatic plarships, fello 160 hours. Re	ucational ins onal higher on Portfolio, owships or s sponses are	education and MUREP and is limited to students tipends totaling >\$5K or self-reported from students		
		Grants, include	GSRP, Jenkins,	and Pre-Serv	vice teachers	SA pipeline including Space 5. Future enhancements will 5 all national higher		

Term	Туре							
		Veer	Torget	Actual	C+-+			
		<b>Year</b> 2007	Target FY 07 Actual	Actual	State			
		2007	35%	4376				
		2008	35%					
		2007	40%					
		2010	45%					
Long-term	Outcome		Percentage of u on in NASA-re				s who move on to advanced	
		limited totaling by natio	to students wi >\$5K or inter onal space gra dized tracking	no have r nships of nt directo	eceive f at lea ors. Fu	d schol ist 160 ture en	orted by Space Grant, and is arships, fellowships or stipen- nours. Responses are reporte nancements will include national higher education	ds
		Year	Target	Actual	State	e		
		2007	FY 07 actual	30%				
		2008	<mark>35%</mark>					
		2009	<mark>35%</mark>					
		2010	<mark>35%</mark>					
		2011	<mark>35%</mark>					
Long-term	Output	particip <b>Explan</b> Motivat Future	ated in NASA <b>nation</b> : Baselir ing Undergrad	elementa ne include luates in s will inclu	ry or s es stud Scienc ude sta	econda ents as e and T indardiz	am participants who have ry programs. reported by contractor for echnology (MUST) project. ed tracking and surveys acro	DSS
		Year	Target	Δ	rtual	State		
		2007	FY 07 actual		3%	otate		
		2008	baseline plus					
		2009	baseline plus					
		2010	baseline plus					
		2011	baseline plus					
Long-term	Output	particip Explan includir sustain first-ha distance	ants in NASA a <b>ation</b> : K-12 s ng one-time, sl ed learning op nd opportuniti	instructio tudent in nort dura portunitie es in NAS	nal an volven tion er es. Pa SA mis:	d enrich nent en nrichme rticipan sion act	nentary and secondary stude ment activities. compasses a range of activiti nt activities to longer-term o ts are provided with authenti ivities through site-based and ts funded within the K-12	es r c

Туре						
	2007	FY07 actual	4	08,774		
	2008	baseline plu	is 5%			—
	2009					—
	2010					_
Output	NASA tu instruct <b>Explan</b> underst attend more lil teacher	raining progra tion. tanding and co professional of kely to integra s. The data i	ams who training ( onfidence levelopme ate NASA s based c	orogran in tea ent (ex STEM n teac	SA resound ms result ching ST perience resource hers rep	t in deeper content EM disciplines. Teachers who so longer than two-days) are so in the classroom than other
	Vear	Target	Actual	State		
				State	-	
	2007		0270			
	2009	70%				
	2007					
	2011	75%				
Outcome	from ele <b>Explan</b> high lev advanta related, conduct This me	ementary and nation: A prer vel of interest age of NASA's , STEM subjected before an easure will rep	l seconda requisite f . Therefore mission cts. Intere d after pa port the p	ry NAS to stud to enha est is m rticipa ercent	A educa ent achie SA's proj ance stu neasured tion in th	tion programs. evement in STEM subjects is a ects are designed to take dents' interest in aerospace- I by surveys of students ne NASA education program.
	Year	Target	A	ctual	State	
	2007	FY 07 actual	5	0%		
	2008	50% or > in	terest			
	2009	50% or > in	terest			
	2010	50% or > in	terest			
	2011	50% or > in	terest			
Output	network Explan Associa centers (FY 07	<s and="" that="" us<br="">nation: Appro tion of Science , and planeta Total MA men</s>	se NASA r ximately te and Tec riums) ar nbership:	esourc 20% o chnolog e mem 300).	es in pro f the 460 gy Cente bers of I In addit	ograms & exhibits. D U.S. members of the ers (e.g. museums, science NASA's Museum Alliance (MA) tion to MA members, other
	Output	2007200820092010OutputText: FNASA trinstructExplandunderstattendmore liftteacherresourceYear200720092011OutcomeText: Lfrom eleExplandhigh levaladvantarelatedconductThis meparticipYear200720082009201020102011OutputText: FnetworkExplandAssocialcenters(FY 07)	2007FY07 actual2008baseline plus2009baseline plus2010baseline plus2010baseline plus2010baseline plus2010baseline plus2010baseline plus2010baseline plus2010baseline plus2010baseline plus2011Text: Percentage of NASA training progradinstruction.Explanation:NASA understanding and co attend professional of more likely to integrate teachers. The data in resources in their classical 2007YearTarget 2007200970%201175%OutcomeText: Level of studee from elementary and related, STEM subject conducted before and This measure will rep participation increaseYearTarget 2007200950% or > in 2009201050% or > in 2010201050% or > in 2010201150% or > in 2011201150% or > in 2010201150% or > in 2010201150% or > in 2010201150% or > in 2010201150% or > in 2010201250% or > in 2011201350% or > in 20112014Sociation of Science centers, and planeta (FY 07 Total MA menter)	2007  FY07 actual  4    2008  baseline plus 5%  2009    2010  baseline plus 10%  2010    2010  baseline plus 15%  2009    Output  Text: Percentage of elementa NASA training programs who of instruction.  Explanation: NASA training programs who of instruction.    Explanation: NASA training programs who of instruction.  Explanation: NASA training programs who of instruction.    Explanation: NASA training programs who of instruction.  Explanation: NASA training programs who of instruction.    Year  Target  Actual    2007  FY07 actual 62%	2007  FY07 actual  408,774    2008  baseline plus 5%  2009    2010  baseline plus 10%  2010    2010  baseline plus 15%  2010    Output    Text: Percentage of elementary and NASA training programs who use NA instruction. <b>Explanation:</b> NASA training program understanding and confidence in tea attend professional development (ex more likely to integrate NASA STEM teachers. The data is based on teachers.    2007  FY07 actual  62%    2009  70%  2011  75%    Outcome    Text: Level of student interest in sci from elementary and secondary NAS    Explanation: A prerequisite to stud high level of interest. Therefore, NAS advantage of NASA's mission to enharelated, STEM subjects. Interest is m conducted before and after participa This measure will report the percent participation increase in interest.    2007  FY 07 actual  50%    2008  50% or > interest  2009  50%    2010  50% or > interest  2010  50%    Output    Text: Percentage of M	2007FY07 actual408,7742008baseline plus 5%2009baseline plus 10%2010baseline plus 15%OutputText: Percentage of elementary and seconda NASA training programs who use NASA resol instruction.Explanation: NASA training programs result understanding and confidence in teaching ST attend professional development (experience more likely to integrate NASA STEM resource teachers. The data is based on teachers rep resources in their classroom instruction.YearTargetActualState2007FY07 actual62%200970%201175%OutcomeText: Level of student interest in science and from elementary and secondary NASA educaExplanation: A prerequisite to student achi high level of interest. Therefore, NASA's proj advantage of NASA's mission to enhance stu related, STEM subjects. Interest is measured conducted before and after participation in th This measure will report the percentage of st participation increase in interest.YearTargetActual State2007FY 07 actual50% 2008200850% or > interest2010201050% or > interest2010201150% or > interest

Term	Туре							
		to conti reduction	t reflects a reduction e inue serving the same ons. Estimated Unive esources: 1750.	number	of instit	utions, d	lespite th	nese funding
		Year	Target	Actual	State			
		2007	20% U.S. museums	20%		-		
		2008	20% U.S. museums					
		2009	20% U.S. museums					
		2010	20% U.S. museums			_		
		2011	20% U.S. museums					
Long Term	Efficiency	technol Explant technol Percent	Dollar invested per nu ogies. <b>nation:</b> NASA will cont ogy to deliver content tage reductions are per reached is estimated	inue to u to reach r year ov	se inter ever la ver the p	net- and ger num	web-bas nbers of g year. T	sed participants. The number of
		Year	Target		Actua	1	State	
		2007	\$0.048 per page view	w \$0.03			Slale	
		2010	\$0.028 per page view	N				
Annual	Efficiency	Text: (	Cost per participant of	program	5			
		<i>Explan</i> program draw fr particip activitie their ac NASA's continu	nation: NASA will work m participant. As artic om audiences that ha pants to the next level es encourage continue cademic career, result budget request reflect the serving the same no the cost per participa	k to achie ulated in ve demor of engag d studen ing in effi its a redu umber or	eve a rec the edu nstrated ement. t affiliati ciencies ction ea	cation fra interest A blend on with in recru ch year	amework in NASA of projec NASA the itment a through	k, we will and connect ts and roughout nd retention. FY 11. To
		Year	Target		Actual	State		
		2007	FY07 actual		\$13.18			
		2009	1% reduction from b	aseline				
		2011						
Annual	Efficiency	Text: F	Ratio of funds leverage	ed by NAS	SA fundi	ng supp	ort.	
		Explan	nation: NASA works to	o maximiz	ze its inv	/estmen <sup>-</sup>	t by colla	aborating with

Term	Туре					
		submit These e of the N	ted in proposa external propo NASA program	als to NASA for the osals are built on t	e Space the resea A sources	I on matching dollars Grant and EPSCoR program arch and education activitie s included state and other
		Year	Target	Actual	State	
		2007	FY07 actual	.90/1.00 (90%)		
		2008	60%			
		2009	65%			
		2010	70%			