

Fishery Management Report No. 06-50

**Summary of Public Education and Outreach Activities
Conducted by the Salmon Trout Restoration
Education and Aquatic Management (STREAM)
Program, July 1, 2003-June 30, 2004**

by

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November 2006

Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



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Weights and measures (metric)		General		Measures (fisheries)	
centimeter	cm	Alaska Administrative Code	AAC	fork length	FL
deciliter	dL			mid-eye-to-fork	MEF
gram	g	all commonly accepted abbreviations	e.g., Mr., Mrs., AM, PM, etc.	mid-eye-to-tail-fork	METF
hectare	ha			standard length	SL
kilogram	kg			total length	TL
kilometer	km	all commonly accepted			
liter	L	professional titles	e.g., Dr., Ph.D., R.N., etc.		
meter	m			Mathematics, statistics	
milliliter	mL	at	@	<i>all standard mathematical signs, symbols and abbreviations</i>	
millimeter	mm	compass directions:		alternate hypothesis	H _A
		east	E	base of natural logarithm	<i>e</i>
		north	N	catch per unit effort	CPUE
		south	S	coefficient of variation	CV
		west	W	common test statistics	(F, t, χ^2 , etc.)
Weights and measures (English)		copyright	©	confidence interval	CI
cubic feet per second	ft ³ /s	corporate suffixes:		correlation coefficient (multiple)	R
foot	ft	Company	Co.	correlation coefficient (simple)	r
gallon	gal	Corporation	Corp.	covariance	cov
inch	in	Incorporated	Inc.	degree (angular)	°
mile	mi	Limited	Ltd.	degrees of freedom	df
nautical mile	nmi	District of Columbia	D.C.	expected value	<i>E</i>
ounce	oz	et alii (and others)	et al.	greater than	>
pound	lb	et cetera (and so forth)	etc.	greater than or equal to	≥
quart	qt	exempli gratia		harvest per unit effort	HPUE
yard	yd	(for example)	e.g.	less than	<
		Federal Information Code	FIC	less than or equal to	≤
Time and temperature		id est (that is)	i.e.	logarithm (natural)	ln
day	d	latitude or longitude	lat. or long.	logarithm (base 10)	log
degrees Celsius	°C	monetary symbols		logarithm (specify base)	log ₂ , etc.
degrees Fahrenheit	°F	(U.S.)	\$, ¢	minute (angular)	'
degrees kelvin	K	months (tables and figures): first three letters	Jan, ..., Dec	not significant	NS
hour	h	registered trademark	®	null hypothesis	H ₀
minute	min	trademark	™	percent	%
second	s	United States (adjective)	U.S.	probability	P
		United States of America (noun)	USA	probability of a type I error (rejection of the null hypothesis when true)	α
Physics and chemistry		U.S.C.	United States Code	probability of a type II error (acceptance of the null hypothesis when false)	β
all atomic symbols		U.S. state	use two-letter abbreviations (e.g., AK, WA)	second (angular)	"
alternating current	AC			standard deviation	SD
ampere	A			standard error	SE
calorie	cal			variance	
direct current	DC			population	Var
hertz	Hz			sample	var
horsepower	hp				
hydrogen ion activity (negative log of)	pH				
parts per million	ppm				
parts per thousand	ppt, ‰				
volts	V				
watts	W				

FISHERY MANAGEMENT REPORT NO. 06-50

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CONDUCTED BY THE SALMON TROUT RESTORATION EDUCATION
AND AQUATIC MANAGEMENT (STREAM) PROGRAM, JULY 1, 2003-
JUNE 30, 2004**

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ABSTRACT

Described are the activities conducted under the Salmon Trout Restoration Education and Aquatic Management (STREAM) Program, July 1, 2003-June 30, 2004. Activities are summarized in two categories; education and outreach. Education activities include: classroom salmon egg incubation, classroom visits and presentations, field educational experiences, teacher workshops/in-services, adopt-a-stream program and educational materials. The outreach component includes: stream restoration/ habitat activities; shows and special events; fulfilling requests for information, materials and equipment; and continuing and enhancing media coverage and program contributions. The new aquatic education mobile classroom trailer and its activities in FY 2004 are described. Goals for the continuing program are outlined.

Key words: Salmon Trout Restoration and Aquatic Management (STREAM) education, outreach, classroom salmon egg incubation, mobile classroom trailer, teacher workshops, Adopt-a-Stream, media coverage.

INTRODUCTION

BACKGROUND INFORMATION

Aquatic education in Southcentral Alaska began in 1989 with an experimental classroom salmon egg incubation program supported by the former Fisheries Rehabilitation Enhancement Division (FRED) of the Alaska Department of Fish and Game (ADF&G). This program was based out of the Big Lake Hatchery and initially concentrated on Matanuska-Susitna Valley schools, but by school year 1990/1991 supported projects in five Matanuska-Susitna Valley and five Anchorage area schools.

During this same time frame, FRED Division had plans to initiate a project to conduct research on stream rehabilitation techniques and structures the division was planning to construct in Anchorage area streams, with emphasis on Campbell Creek. The program was to be funded in part by the Alaska Science and Technology Foundation (ASTF), which was interested in the development of low cost stream restoration techniques that the general public and other agencies could afford and utilize along streams around Alaska. The projects would be small in design and materials would be inexpensive and easy to install.

A union of the fledgling aquatic education program and the new stream restoration effort occurred in July 1991 when the new project biologist realized there was an opportunity to combine these efforts to create an educational outreach program, which was named the Salmon Trout Restoration Education and Aquatic Management (STREAM) Program.

The main goal of the program was, as it remains today, to increase the public's awareness of Alaska's healthy wild salmon stocks through education and the offering of hands-on opportunities. In this way it is hoped that they will become personally involved and become better stewards of this valuable resource. In 1996, the STREAM Program was transferred to the Division of Sport Fish (DSF). At that time, angler education and outreach became the main goal of the STREAM Program.

The STREAM Program's activities have been modeled after other existing agency aquatic education and outreach programs such as the Oregon Department of Fish and Wildlife's (ODF&W) Salmon Trout Enhancement Program (STEP) and the federal Canada Department of Fisheries and Ocean's (DFO) Salmonid Enhancement Program (SEP) in British Columbia. Components of these programs have been incorporated into STREAM Program activities; however, these programs use activities to concentrate on enhancement of depleted salmon stocks while the ADF&G program focuses on maintaining existing healthy stocks around the state. Salmonid enhancement is not an integral part of the STREAM Program.

The STREAM Program continues to expand and supports incubation projects throughout Southcentral Alaska and Interior Alaska. Projects are located in the Anchorage area, Kenai Peninsula, Matanuska-Susitna Valley, Kodiak and Region III (Fairbanks) road system area. The program also continues to support Cooperative Extension Service (CES) classroom salmon egg incubation projects statewide on a technical basis since this program was established in the early 1990s.

The success and popularity of the STREAM program is due to the high visibility of the program. Staff are in the schools and field with the students and volunteers that have the desire to learn more about Alaska's salmon resources. This not only allows the department to inform the public, but also enables the public to become more aware of the department's concerns and to understand why and how the resource is managed.

FY 2004 ACTIVITIES (JULY 1, 2003–JUNE 30, 2004)

The STREAM Program accomplishes its goals in many ways, but primarily develops and incorporates hands-on activities to increase the public's awareness of our salmon resources. The program focuses on education and outreach as its primary tools to accomplish its goals; however, with the ever increasing demand for educational activities and materials, the time consuming small-scale stream restoration outreach activities have decreased significantly since the early days of the program.

Activities conducted by the STREAM Program are summarized in two categories, education and outreach. Education activities include: classroom salmon egg incubation, classroom visits and presentations, field educational experiences, teacher workshops/in-services, adopt-a-stream program and educational materials. The outreach component includes: stream restoration/habitat activities; shows and special events; fulfilling requests for information, materials and equipment; and continuing and enhancing media coverage and program contributions. The new aquatic education mobile classroom trailer was completed in FY03 and there will be a section dedicated to trailer activities. Activities for fiscal year 2004 are summarized below.

EDUCATION

Classroom Salmon Egg Incubation

As one of the original aquatic education tools, classroom salmon egg incubation activities have long been the backbone of the educational effort in Southcentral Alaska. Classroom salmon egg incubation came to Alaska using technology developed by the DFO-SEP in British Columbia. Classroom salmon egg incubation projects are used as a part of SEP's "Salmonids in the Classroom" program. Since its origins at the Big Lake Hatchery, these projects now exist in 127 ADF&G STREAM Program-sponsored schools in Southcentral Alaska and statewide in approximately 30 Cooperative Extension Service (CES)-sponsored schools. These projects continue to be for educational purposes only and not for enhancement.

Most schools are using 29-gallon aquariums with standard undergravel filter plates, powerheads and aquarium gravel. The tanks are insulated and darkened using 1-inch high density Styrofoam and the recirculated water is refrigerated using specially designed refrigeration units. If schools are on a city-treated water system they must dechlorinate their water before introduction into their tank. These systems incubate up to 250 eggs. Coho salmon (*Oncorhynchus kisutch*) is the species used to obtain salmon eggs for the school projects because its egg development stages from spawning to fry emergence coincide best with a school year.

This year, classroom incubation equipment was again funded cooperatively between the Kenai River Sportfishing Association (KRSA) and the STREAM Program. The STREAM Program received approximately \$12,000 from KRSA to purchase 22 refrigeration units for schools. STREAM Program staff then had these units built locally and distributed them to participating schools. The STREAM Program supplies the other equipment and accessories required.

Several schools utilize a technique developed by the STREAM Program when standard incubation equipment is not available. This technique uses a small 1-gallon aquarium inside of a refrigerator, which chills the water, to incubate approximately 50 salmon eggs through the fry stage.

The classroom salmon egg incubation program enables students and teachers, as well as parents, to witness and monitor the early development of a salmon from egg to fry, probably the least understood stages of the salmon's life cycle, but a period we as humans have great control over. Classes are responsible for monitoring tank temperature on a daily basis and performing water exchanges once a week. Classroom salmon egg incubation projects focus on increasing student awareness of salmonid life histories, biology, anatomy and habitat requirements of these fish.

Educational materials have been developed and continue to be developed to complement this program. The STREAM Program modified the primary version of *Salmonids in the Classroom* with permission from DFO. *A Guide to Classroom Salmon Egg Incubation in Alaska* continues to be distributed to teachers and a new pictorial guide to setting up a classroom incubator, *Classroom Incubator Setup for Dummies*, was written and printed in March 2004. A modified life-cycle poster originally produced by the Washington Department of Fish and Wildlife (WDF&W) and salmon egg vial displays constructed by high school students are also made available to educators.

In 2004, 67 Anchorage area schools conducted classroom salmon egg incubation projects (Table 1), an increase of 13 from the previous year. There were 21 participating schools in the Matanuska-Susitna Valley area, an increase of 4 schools from the previous year; 11 schools on the Kenai Peninsula, an increase of 3 schools from the previous year; 12 schools in Kodiak, an increase of 4 schools from the previous year; and 16 schools in the Fairbanks area, an increase of 3 schools from the previous year.

In late September and early October, classes from Anchorage and the Matanuska-Susitna Valley came to Campbell Creek and Spring Creek, respectively, to participate in a coho salmon egg take. The children witnessed the beginning of life of a salmon and left with up to 250 fertilized eggs, which they then observed and monitored throughout the winter. Schools on the Kenai Peninsula received their coho salmon eggs from Bear Creek during a cooperative ADF&G, Cook Inlet Aquaculture (CIAA) and Seward Sealife Center egg take held at the CIAA-operated Bear Creek Weir. Following the egg takes the Seward Sealife Center hosted reduced entry fee tours for the participants.

Kodiak area projects received eggs from an egg take held at the Buskin River in late October. STREAM Program staff also traveled to four outlying communities, courtesy of the Kodiak Island School District, to continue or start up incubation projects and conduct coho salmon egg takes in those communities. The Copper River basin school (included with the Fairbanks Region III area schools) continues to receive fertilized coho salmon eggs from an egg take at the privately operated Solomon Gulch Hatchery in Valdez. Fairbanks area schools attended an egg take this year along the banks of the Tanana River in Fairbanks and used fish transported from the Delta-Clearwater River in Delta Junction. Eggs were also taken at the Delta-Clearwater River for Delta Junction and Tok schools. Those eggs were transported to the schools directly and no students attended that egg take.

Table 1.-Schools participating in salmon egg incubation projects, by area, 2004.

<u>ANCHORAGE</u>	<u>ANCHORAGE (Continued)</u>
Abbott Loop Elementary	Ravenwood Elementary
Alpenglow Elementary	Rogers Park Elementary
Anchorage Montessori	Russian Jack Elementary
Aquarian Charter	Sand Lake Elementary
Bartlett HS	SAVE HS
Baxter Elementary	Scenic Park Elementary
Bayshore Elementary	Service HS
Bear Valley Elementary	Spring Hill Elementary
Central MS	Susitna Elementary
Chinook Elementary	Taku Elementary
Chugach Optional	Trailside Elementary
Chugiak Elementary	Tudor Elementary
Chugiak HS	Turnagain Elementary
Clark MS	Ursa Minor Elementary
College Gate Elementary	Village Charter
Creekside Park Elementary	West HS
Denali Elementary	Whaley School
Eagle River Elementary	Williwaw Elementary
Fairview Elementary	Willow Crest Elementary
Fire Lake Elementary	
Girdwood Jr. High	Total 67
Gladys-Wood Elementary	
Goldenview MS	<u>MATANUSKA-SUSITNA</u>
Hanshew MS	Big Lake Elementary
Homestead Elementary	Butte Elementary
Huffman Elementary	Colony MS
Inlet View Elementary	Cottonwood Creek Elem.
Kasuun Elementary	Finger Lake Elementary
King Career Center	Glacier View
Klatt Elementary	Goose Bay Elementary
Lake Hood Elementary	Larson Elementary
Lake Otis Elem.	Meadow Lakes Elementary
Mears MS	Midnight Sun
Mirror Lake MS	Pioneer Peak Elementary
Mt. View Elementary	Sherrod Elementary
Muldoon Elementary	Snowshoe Elementary
North Star Elem.	Susitna Valley HS
North Star RTC	Sutton Elementary
Northern Lights ABC	Swanson Elementary
Nunaka Valley Elementary	Talkeetna Elementary
Ocean View Elementary	Tanaina Elementary
O'Malley Elementary	Teeland Middle
Orion Elementary	Wasilla HS
Pathways Home	Wasilla MS
Polaris Alternative	
Parmigan Elementary	Total 21
Rabbit Creek Elementary	

-continued-

Table 1.–Page 2 of 2.

<u>KENAI PENINSULA</u>	<u>KODIAK (Continued)</u>
Chapman Elementary	St. Innocent’s Academy
Homer Flex	St. Mary’s School
Homer HS	
Kalifornsky Beach Elem.	Total 12
Mt. View Elementary	
Nikiski Elementary	<u>FAIRBANKS REGION III</u>
Ninilchik HS	Arctic Light Elementary
Sears Elementary	Badger Road Elementary
Sterling Elementary	Chinook Charter
Tustumena Elementary	Delta Junction Elem.
Voznesenka School	Hunter Elementary
	Joy Elementary
Total 11	Kenny Lake Elementary
	Monroe Catholic School
<u>KODIAK</u>	Nordale Elementary
Akhiok School	North Pole MS
East Elementary	Pearl Creek Elementary
Kodiak HS	Tok School
Larsen Bay School	Tri-Valley School
Main Elementary	Weller Elementary
North Star Elementary	Whitestone School
Old Harbor School	Woodriver Elementary
Ouzinkie School	
Peterson Elementary	Total 16
Port Lions School	

The classroom eggs eventually hatched and turned into fry at which point the classes received salmon food supplied by the Fort Richardson Hatchery and distributed by STREAM Program staff. The majority of the coho fry were released in mid to late May in landlocked lakes: Taku-Campbell Lake in Anchorage, Matanuska Lake in Palmer, several lakes in the Kenai/Soldotna area, Island Lake in Kodiak, Strelna Lake near Kenny Lake and either Bathing Beauty Pond near Fairbanks or the Delta-Clearwater River (anadromous).

Egg-take and release summary information for each area can be found in Table 2. Anchorage area events continue to account for the largest participation during egg takes (2,579 students, 102 classes) and releases (1,429 students) due to the large number of schools participating. Egg takes in Anchorage were held over a 5-day period for classes to attend. An egg take was conducted on a sixth day (Saturday) for instructors who could not attend with their classes. The fry releases in Anchorage and Palmer had the only organized classroom fry releases in the region where classes came out on a single day to release their fish. These releases were combined with a “Salmon Celebration” (hands-on activity booths) so that the students could participate in salmon related activities after releasing their fry.

Table 2.-School egg-take and release information, 2004.

Date	Location	Stream/Lake	Number Students
Anchorage			
Egg Take			
09/22/03	Anchorage	Campbell Creek	349 (15 classes)
09/23/03	Anchorage	Campbell Creek	311 (14 classes)
09/24/03	Anchorage	Campbell Creek	577 (25 classes)
09/25/03	Anchorage	Campbell Creek	414 (19 classes)
09/26/03	Anchorage	Campbell Creek	678 (27 classes)
09/27/03	Anchorage	Campbell Creek	250 (2 classes)
Total		6	2,579 (102 cl)
Released			
05/07/04	Anchorage	Taku-Campbell Lake	1,429 (58 classes)
Total		1	1,429 (58 classes)
Matanuska-Susitna Valley			
Egg Take			
09/30/03	Palmer	Spring Creek	552 (21 classes)
10/01/03	Palmer	Spring Creek	386 (14 classes)
Total		2	938 (35 classes)
Released			
05/11/04	Palmer	Matanuska Lake	600 (24 classes)
Total		1	600 (24 classes)
Kenai Peninsula			
Egg Take			
10/15/03	Seward	Bear Creek	147 (7 classes)
Total		1	147 (7 classes)
Region III/Fairbanks			
Egg Take			
10/07/03	Fairbanks	Tanana River	510 (28 classes)
10/03	Valdez	Solomon Gulch	22 (1 class)
Total		2	532 (29 classes)
Kodiak			
Egg Take			
10/19/03	Larsen Bay	Browns Lagoon Cr	0
10/22/03	Old Harbor	Dog Creek	0
10/24/03	Ouzinkie	Katmai Creek	22 (3 classes)
10/26/03	Port Lions	Crescent Lake Cr	0
10/30/03	Kodiak	Buskin River	246 (12 classes)
Total		5	268 (15 classes)

Two days of school egg takes held at Spring Creek in Palmer drew an attendance of 938 students (35 classes). Students from the Matanuska-Susitna Valley area then released their fry into Matanuska Lake during a combined district-wide classroom fry and catchable rainbow trout (from Anchorage area hatcheries) release. This release was combined with a Salmon Celebration.

The Kenai Peninsula school egg take was conducted at Bear Creek in Seward. This egg take was attended by 147 students (7 classes). Kenai Peninsula classes have three release location options, but most opted to release their fry at Centennial Lake in Kasilof.

Kodiak area schools attended egg takes held at the Buskin River at the outlet of Buskin Lake (246 students, 12 classes) and the resultant fry were released into Island Lake. The annual district-wide Salmon Celebration for the Kodiak area was moved in 2004 to the city boat harbor “spit” area.

The Fairbanks area schools egg take was again combined with a scaled down version of the Salmon Celebration in early October at a new location, the Tanana River Wayside in Fairbanks (510 students, 28 classes). The Copper River basin school received fertilized (green) coho salmon eggs from an egg take at the privately operated Solomon Gulch Hatchery in Valdez. All Region III fry were then released into approved release locations in their areas.

Lakes that are approved for school fry releases are landlocked so that school-raised fry cannot mix with wild salmon in anadromous systems. Teachers may also elect to sacrifice their fry if they do not wish to release them. Classes may, by state policy, also release their fry into the system from which the eggs originated; however, projects sponsored by the STREAM Program are not offered this option in Southcentral Alaska, but may do so in the Fairbanks (Region III) area.

Twenty (20) Cooperative Extension Service sponsored incubation projects received eyed eggs from the Ft. Richardson Hatchery in mid November 2003. Fort Richardson Hatchery staff assisted with the packaging of those eggs.

Classroom Visits and Presentations

Making presentations to groups of people is one of the more conventional means of getting information out to interested groups. The STREAM Program, however, prefers to be very visual and hands-on when staff visit classrooms or adult groups to present topics relating to salmon. The STREAM Program attempts to make presentations interactive, where the audience must participate in some fashion. This may mean asking questions to the audience during the presentation or by giving them a hands-on activity to do while a presentation is occurring. Hands-on activities include puzzles, rubber stamps, fish dissections and fly tying. Presentations focus on many salmon-related topics including salmon life histories, biology, habitat requirements, anatomy (dissections), watersheds, stream ecology or fishing.

Table 3 contains summary information on classroom visits and presentations for 2004. During this year, 265 presentations (up from 155 in 2003) were made to groups ranging in size from 7 to 160. Various presentations were made to 9,111 individuals, an increase of 2,093 students from FY03, from kindergarten through adult age levels. Seventy-nine percent of the presentations were conducted for elementary age children, 9.5% to junior high students, 9.5% to high school students, and 1.6% to adult groups.

In 2004 the STREAM Program continued the salmon dissection program, where teachers could pick up salmon from a designated location to conduct dissections in the classroom or they could have STREAM Program staff bring fish and lead the dissection. Harbor Seafoods, a local fish processor in Kenai, donated 500 pink salmon to support the program this year. With those fish, along with coho salmon and arctic char from the Elmendorf and Fort Richardson hatcheries,

Table 3.-Classroom visits and presentations conducted by the ADF&G STREAM Program, 2004.

Date	School	# Students	Age Group	Subject
07/17**	Central KP B&G Club	10	Elementary	Fly Tying
09/03**	Mt. View Elementary	23	Elementary	Watershed presentation
09/03**	Mt. View Elementary	22	Elementary	Watershed presentation
09/08**	Kalifornsky Beach El.	21	Elementary	Watershed presentation
09/08**	Kalifornsky Beach El.	24	Elementary	Watershed presentation
09/08**	Kalifornsky Beach El.	23	Elementary	Watershed presentation
09/09*	Tanaina Elementary	32	Elementary	Incubator setup and presentation
09/09*	Finger Lake Elem.	80	Elementary	Incubator setup and presentation
09/10	Joy Elementary	19	Elementary	Life cycle, Incubation project, egg take
09/10*	Snowshoe Elementary	54	Elementary	Incubator setup and presentation
09/11	Weller Elementary	66	Elementary	Salmon dissection (3 classes)
09/12*	Big Lake Elementary	50	Elementary	Incubator setup and presentation
09/12*	Sutton Elementary	30	Elementary	Incubator setup and presentation
09/15*	Cottonwood Cr. Elem.	30	Elementary	Incubator setup and presentation
09/15*	Goose Bay Elem.	42	Elementary	Incubator setup and presentation
09/16*	Susitna Valley HS	12	High School	Incubator setup and presentation
09/16**	Tustumena Elementary	21	Elementary	Watershed presentation
09/17**	Nikiski Elementary	22	Elementary	Watershed presentation
09/17**	Sterling Elementary	45	Elementary	Watershed presentation
09/18*	Cottonwood Cr. Elem.	30	Elementary	Incubator setup and presentation
10/02	Tri-Valley School	15	Elementary	Salmon dissection (1 class)
10/03	Nordale/Arctic Light	60	Elementary	FBKS Salmon Celebration training
10/06	Delta Junction Elem.	18	Elementary	Life cycle, Incubation project, egg take
10/08**	Cook Inlet Academy	15	Elementary	Watershed presentation
10/13**	Kenai Middle School	40	Junior High	Salmon dissection (1 class)
10/20	Larsen Bay School	14	K-12	Dissection, life cycle, incubation project, t-shirts
10/22	Birchwood ABC	42	Elementary	Ecosystems, food chains, watershed
10/22	Main Elementary	42	Elementary	Salmon dissection (2 classes)
10/22**	Chapman Elementary	21	Elementary	Salmon dissection (1 class)
10/23	Old Harbor School	43	K-12	Dissection, life cycle, incubation project, t-shirts
10/24	Ouzinkie School	22	K-12	Dissection, life cycle, incubation project, t-shirts
10/27	Port Lions School	42	K-12	Dissection, life cycle, incubation project, t-shirts
10/28	North Star Elementary	55	Elementary	Salmon dissection (2 classes) + shark
10/28	Peterson Elementary	27	Elementary	Life cycle, incubation project
10/29	East Elementary	72	Elementary	Salmon dissection (3 classes)
10/29	St. Mary's Elementary	37	Elementary	Salmon dissection (2 classes)
11/05*	Swanson Elementary	66	Elementary	Salmon dissection (3 classes)
11/05*	Swanson Elementary	45	Elementary	Salmon dissection (2 classes)
11/05*	Swanson Elementary	45	Elementary	Salmon dissection (2 classes)
11/06*	Colony High School	30	High School	Watershed, lake presentation

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Table 3.-Page 2 of 6.

Date	School	# Students	Age Group	Subject
11/07*	Meadow Lakes Elem.	60	Elementary	Salmon dissection (2 classes)
11/07*	Mat-Su Youth Facility	11	High School	Salmon dissection, career presentation
11/07**	Tustumena Elementary	21	Elementary	Salmon dissection (1 class)
11/12*	Colony Middle School	34	Junior High	Watershed, lake presentation
11/12*	Colony Middle School	32	Junior High	Watershed, lake presentation
11/12**	Mt. View Elementary	23	Elementary	Watershed model
11/12**	Mt. View Elementary	22	Elementary	Watershed model
11/13*	Pioneer Peak Elem.	75	Elementary	Salmon dissection (3 classes)
11/14*	Big Lake Elementary	23	Elementary	Salmon dissection (1 class)
11/14*	Goose Bay Elementary	42	Elementary	Salmon dissection (2 classes)
11/17*	Wasilla High School	50	High School	Career and aquatic ed. presentation
11/17*	Sutton Elementary	35	Elementary	Salmon dissection (2 classes)
11/18*	Snowshoe Elementary	80	Elementary	Salmon dissection (3 classes)
11/19	Village Charter	21	Elementary	Salmon dissection (1 class) + pike
11/19	Anchorage Montessori	11	Elementary	Salmon dissection (1 class) + pike
11/19*	Sherrod Elementary	50	Elementary	Salmon dissection (2 classes)
11/20	Scenic Park Elementary	48	Elementary	Salmon dissection (2 classes) + pike
11/20	Sand Lake Elementary	54	Elementary	Salmon dissection (2 classes) + pike
11/20*	Tanaina Elementary	100	Elementary	Salmon dissection (4 classes)
11/21	Mountain View Elem.	25	Elementary	Salmon dissection (1 class) + pike
11/21	College Gate Elem.	25	Elementary	Salmon dissection (1 class) + pike
11/21*	Larson Elementary	26	Elementary	Salmon dissection (1 class)
11/21*	Finger Lake Elem.	80	Junior High	Salmon dissection (3 classes)
11/24	Northern Lights ABC	22	Elementary	Salmon dissection (1 class)
11/24	Turnagain Elementary	48	Elementary	Salmon dissection (2 classes) + pike
11/24*	Teeland Middle School	60	Junior High	Salmon dissection (1 pod)
11/25	Whaley Elementary	17	Elementary	Salmon dissection (1 class) + pike
11/25	Ptarmigan Elementary	27	Elementary	Salmon dissection (1 class) + pike
11/25*	Teeland Middle School	58	Junior High	Salmon dissection (1 pod)
11/26	Ursa Minor Elementary	38	Elementary	Salmon dissection (2 classes)
11/26	Klatt Elementary	28	Elementary	Salmon dissection (1 class) + pike
12/01	North Star RTC	12	High School	Salmon dissection (1 class)
12/01	Inlet View Elementary	90	Elementary	Salmon dissection (3 classes) + pike
12/02	Bear Valley Elementary	90	Elementary	Salmon dissection (3 classes) + pike
12/02	Rabbit Creek Elem.	56	Elementary	Salmon dissection (2 classes) + pike
12/02*	Wasilla High School	22	High School	Fly tying
12/03	Lake Hood Elementary	160	Elementary	Salmon dissection (6 classes)
12/03	Chugiak Elementary	44	Elementary	Salmon dissection (2 classes)
12/03*	Butte Elementary	50	Elementary	Salmon dissection (2 classes)
12/04	Orion Elementary	56	Elementary	Salmon dissection (2 classes) + pike
12/04	Fire Lake Elementary	47	Elementary	Salmon dissection (2 classes) + pike
12/04*	Larson Elementary	28	Elementary	Design a Fish activity

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Table 3.-Page 3 of 6.

Date	School	# Students	Age Group	Subject
12/05	Bayshore Elementary	40	Elementary	Salmon dissection (2 classes)
12/05	Bayshore Elementary	37	Elementary	Salmon dissection (2 classes)
12/08	Pioneer Peak Elem.	74	Elementary	Fly tying – 4 egg patterns (3 classes)
12/09	Goose Bay Elementary	41	Elementary	Fly tying – 4 egg patterns (2 classes)
12/09	Tanaina Elementary	96	Elementary	Fly tying – 4 egg patterns (4 classes)
12/09**	Nikiski Elementary	22	Elementary	Watershed model
12/10	Sherrod Elementary	50	Elementary	Fly tying – 4 egg patterns (2 classes)
12/10	Cottonwood Cr. Elem.	70	Elementary	Fly tying – 4 egg patterns (3 classes)
12/11	Larson Elementary	26	Elementary	Fly tying – 4 egg patterns
12/11	Sutton Elementary	15	Elementary	Fly tying – 4 egg patterns
12/12	Swanson Elementary	42	Elementary	Fly tying – 4 egg patterns (2 classes)
12/12	Meadow Lakes Elem.	51	Elementary	Fly tying – 4 egg patterns (2 classes)
12/12**	Chapman Elementary	23	Elementary	Watershed model
12/12**	Chapman Elementary	21	Elementary	Watershed model
12/12**	Homer Flex	20	High School	Salmon dissection (1 class)
12/15	Colony Middle School	64	Junior High	Fly tying – 4 egg patterns (1 pod)
12/15	Snowshoe Elementary	52	Elementary	Fly tying – 4 egg patterns (2 classes)
12/16	Butte Elementary	42	Elementary	Fly tying – 4 egg patterns (2 classes)
12/17	King Career Center	17	High School	Fly tying – 4 egg patterns
12/17	King Career Center	21	High School	Fly tying – 4 egg patterns
12/18	Teeland Middle School	62	Junior High	Fly tying – 4 egg patterns (1 pod)
12/18	Wasilla Middle School	17	Junior High	Fly tying – 4 egg patterns
01/05	Baxter Elementary	52	Elementary	Salmon dissection (2 classes) + pike
01/05	Nunaka Valley Elem.	15	Elementary	Salmon dissection (1 class) + pike
01/06	Trailside Elementary	100	Elementary	Salmon dissection (4 classes)
01/06	Chinook Elementary	48	Elementary	Salmon dissection (2 classes) + pike
01/07	Fairview Elementary	48	Elementary	Salmon dissection (3 classes)
01/07	Spring Hill Elementary	105	Elementary	Salmon dissection (4 classes) + pike
01/08	West High School	74	High School	Watershed I
01/09	Pathways Home	17	High School	Watershed I
01/20	West High School	74	High School	Watershed I
01/21	Mears Middle School	72	Junior High	Watershed I
01/22	Inlet View Elementary	26	Elementary	Watershed I
01/22	Gladys Wood Elem.	32	Elementary	Watershed I
01/22	Voznesenka School	18	Elementary	Fly tying – 4 egg patterns
01/22	Voznesenka School	25	Junior High	Fly tying – 4 egg patterns
01/23	North Star RTC	28	Junior High	Watershed I
01/23	Homer Flex	16	High School	Fly tying – 4 egg patterns
01/23	Homer High School	42	High School	Fly tying – 4 egg patterns (3 classes)
01/26	Ravenwood Elementary	98	Elementary	Salmon dissection (4 classes)
01/26	Rogers Park Elem.	18	Elementary	Salmon dissection (1 class)
01/26	Rabbit Creek Elem.	64	Elementary	Watershed I

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Date	School	# Students	Age Group	Subject
01/27	Gladys Wood Elem.	57	Elementary	Salmon dissection (2 classes) + pike
01/27	Willow Crest Elem.	49	Elementary	Salmon dissection (2 classes) + pike
01/27	Inlet View Elementary	27	Elementary	Flood plain (riparian zone) presentation
01/28	Tudor Elementary	21	Elementary	Fly tying – 4 egg patterns
01/28	Ravenwood Elementary	84	Elementary	Fly tying – 4 egg patterns (4 classes)
01/29	Pathways Home	23	High School	Fly tying – 4 egg patterns (1 class)
01/29	Muldoon Elementary	20	Elementary	Fly tying – 4 egg patterns (1 class)
01/30	Bear Valley Elem.	80	Elementary	Fly tying – 4 egg patterns (3 classes)
01/30	Rabbit Creek Elem.	57	Elementary	Fly tying – 4 egg patterns (2 classes)
02/10	Chugiak Elementary	44	Elementary	Fly tying – 4 egg patterns (2 classes)
02/11	Trailside Elementary	80	Elementary	Fly tying – 4 egg patterns (3 classes)
02/11	Chinook Elementary	51	Elementary	Fly tying – 4 egg patterns (2 classes)
02/12	Whaley School	19	Elementary	Fly tying – 4 egg patterns (1 class)
02/12	Alpenglow Elementary	52	Elementary	Fly tying – 4 egg patterns (2 classes)
02/13	Baxter Elementary	51	Elementary	Fly tying – 4 egg patterns (2 classes)
02/13	Nunaka Valley Elem.	18	Elementary	Fly tying – 4 egg patterns (1 class)
02/17	North Star RTC	15	High School	Fly tying – 4 egg patterns (1 class)
02/18	Fairview Elementary	51	Elementary	Fly tying – 4 egg patterns (3 classes)
02/18	Eagle River Elementary	54	Elementary	Fly tying – 4 egg patterns (2 classes)
02/19	Fire Lake Elementary	44	Elementary	Fly tying – 4 egg patterns (2 classes)
02/20	College Gate Elem.	28	Elementary	Fly tying – 4 egg patterns (1 class)
02/23	Ptarmigan Elementary	27	Elementary	Fly tying – 4 egg patterns (1 class)
02/23	Willow Crest Elem.	45	Elementary	Fly tying – 4 egg patterns (2 classes)
02/24	Homestead Elementary	53	Elementary	Fly tying – 4 egg patterns (2 classes)
02/24	Klatt Elementary	27	Elementary	Fly tying – 4 egg patterns (1 class)
02/25	Kasuun Elementary	75	Elementary	Fly tying – 4 egg patterns (3 classes)
02/25	Scenic Park Elementary	24	Elementary	Fly tying – 4 egg patterns (1 class)
02/25**	Mt. View Elementary	21	Elementary	Salmon dissection (1 class)
02/25**	Mt. View Elementary	20	Elementary	Salmon dissection (1 class)
02/26	Sand Lake Elementary	47	Elementary	Fly tying – 4 egg patterns (2 classes)
02/26	Turnagain Elementary	43	Elementary	Fly tying – 4 egg patterns (2 classes)
02/26**	Nikiski Elementary	24	Elementary	Salmon dissection (1 class)
02/27	Taku Elementary	24	Elementary	Fly tying – 4 egg patterns (1 class)
02/27	Ursa Minor Elementary	21	Elementary	Fly tying – 4 egg patterns (1 class)
03/02	Nikiski Elementary	20	Elementary	Fly tying – 4 egg patterns (1 class)
03/03	Sterling Elementary	46	Elementary	Fly tying – 4 egg patterns (2 classes)
03/03	Mt. View Elementary	46	Elementary	Fly tying – 4 egg patterns (2 classes)
03/04	Chapman Elementary	61	Elementary	Fly tying – 4 egg patterns (3 classes)
03/04	Tustumena Elementary	42	Elementary	Fly tying – 4 egg patterns (2 classes)
03/05	Big Lake Elementary	19	Elementary	Fly tying – 4 egg patterns (1 class)
03/05	Finger Lake Elem.	66	Elementary	Fly tying – 4 egg patterns (3 classes)

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Table 3.-Page 5 of 6.

Date	School	# Students	Age Group	Subject
03/08	Spring Hill Elementary	70	Elementary	Fly tying – 4 egg patterns (3 classes)
03/08	Huffman Elementary	78	Elementary	Fly tying – 4 egg patterns (3 classes)
03/08	Inlet View Elementary	32	Elementary	Watershed II
03/08	North Star RTC	24	Junior High	Watershed II
03/09	Creekside Elementary	23	Elementary	Fly tying – 4 egg patterns (1 class)
03/09	Rogers Park Elementary	72	Elementary	Fly tying – 4 egg patterns (3 classes)
03/09	Mears Middle School	64	Junior High	Watershed II
03/10	Lake Otis Elementary	25	Elementary	Fly tying – 4 egg patterns (1 class)
03/10	Russian Jack Elem.	28	Elementary	Fly tying – 4 egg patterns (1 class)
03/10**	Kalifornsky Beach El.	23	Elementary	Slikok Creek follow up lab
03/10	West High School	78	High School	Watershed II
03/10	Pathways Home	26	High School	Watershed II
03/11	Gladys Wood Elem.	38	Elementary	Fly tying – 4 egg patterns (2 classes)
03/11	Inlet View Elementary	58	Elementary	Fly tying – 4 egg patterns (3 classes)
03/11	Gladys Wood Elem.	32	Elementary	Watershed II
03/12	Mt. View Elementary	45	Elementary	Fly tying – 4 egg patterns (2 classes)
03/12	Denali Elementary	30	Elementary	Fly tying – 4 egg patterns (1 class)
03/12	Rabbit Creek Elem.	36	Elementary	Watershed II
03/12	College Gate Elem.	32	Elementary	Watershed I and II
03/12**	Voznesenka School	10	High School	Salmon dissection (1 class)
03/12**	Voznesenka School	25	Junior High	Salmon dissection (1 class)
03/12**	Voznesenka School	24	Elementary	Salmon dissection (1 class)
03/17	King Career Center	30	High School	Watershed I and II
03/18	King Career Center	12	High School	Life cycle/GASS training
03/18	King Career Center	10	High School	Life cycle/GASS training
03/30**	Kalifornsky Beach El.	25	Elementary	Salmon dissection (1 class)
03/30**	Kalifornsky Beach El.	24	Elementary	Salmon dissection (1 class)
03/30**	Kalifornsky Beach El.	24	Elementary	Salmon dissection (1 class)
04/01*	Great AK Sport Show	30	Adult	Stocked Lakes presentation
04/03*	Great AK Sport Show	80	Adult	Stocked Lakes presentation
04/06	Lake Hood Elementary	75	Elementary	Fly tying – 4 egg patterns (3 classes)
04/06	Lake Hood Elementary	56	Elementary	Fly tying – 4 egg patterns (2 classes)
04/07	Orion Elementary	51	Elementary	Fly tying – 4 egg patterns (2 classes)
04/08	SAVE High School	25	High School	Fly tying – 4 egg patterns (1 class)
04/08**	Sterling Elementary	22	Elementary	Salmon dissection (1 class)
04/08**	Sterling Elementary	23	Elementary	Salmon dissection (1 class)
04/08**	Sterling Elementary	23	Elementary	Watershed model
04/08**	Sterling Elementary	22	Elementary	Watershed model
04/13	Alpenglow Elementary	42	Elementary	Incubator care
04/13	Ravenwood Elementary	44	Elementary	Watershed I

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Table 3.-Page 6 of 6.

Date	School	# Students	Age Group	Subject
04/13*	Wasilla High School	50	High School	Salmon Celebration training
04/14	Dillingham High	16	Junior High	Watershed II
04/14	Dillingham High	17	Junior High	Watershed II
04/14*	Talkeetna Elementary	25	Elementary	Dissection, lakes and Design a Fish activity
04/15	Talkeetna Elementary	34	Elementary	Fly tying – 4 patterns, watershed presentation
04/15	Dillingham High	12	High School	Watershed I
04/15	Dillingham High	16	Junior High	Fly tying – 4 egg patterns (1 class)
04/15	Dillingham High	17	Junior High	Fly tying – 4 egg patterns (1 class)
04/16	Dillingham High	18	High School	Watershed II
04/16	Dillingham High	16	High School	Watershed II
04/16	Dillingham High	18	High School	Watershed II
04/20	Kenny Lake Elementary	17	Elementary	Fly tying – 4 patterns (1 class), Design a Fish
04/20	Kenny Lake Elementary	125	K-12	Kristi Knutson art contest awards presentation
04/23*	Meadow Lakes 4H	7	Elementary	Fly tying – 7 patterns
04/27*	Sherrod Elementary	25	Elementary	Design a Fish activity
04/28	Bowman Elementary	12	Elementary	Fly tying – 6 patterns
04/29*	Susitna Valley HS	26	High School	Dissection, lake presentation
05/03	Sterling Elementary	45	Elementary	KPBSD Salmon Celebration training
05/06	Rabbit Creek Elem.	52	Elementary	ASD Salmon Celebration training
05/06**	Nanwalek School	18	Elementary	Watershed model, Chucky Chum activity
05/10	Teeland Middle School	37	Junior High	MSBSD Salmon Celebration training
05/17	North Star Elementary	52	Elementary	Kodiak Salmon Celebration training
05/20**	Kalifornsky Beach El.	23	Elementary	Watershed model, Chucky Chum activity
05/20**	Kalifornsky Beach El.	23	Elementary	Watershed model, Chucky Chum activity
05/20**	Kalifornsky Beach El.	23	Elementary	Watershed model, Chucky Chum activity
05/20**	Central Peninsula GH	7	Adult	Slikok Creek presentation
05/22**	Central Peninsula GH	30	Adult	Slikok Creek presentation
Totals	265	9,111		

* Presentations made by STREAM Program Technician – Palmer office.

** Presentations made by STREAM Program Biologist – Soldotna office.

school egg takes, and northern pike from Soldotna staff, the STREAM program distributed 792 fish, which were utilized by 4,732 students for classroom dissections this year. Once used in the classroom, almost all of the fish used for dissections in Anchorage were donated to the Alaska Zoo. The STREAM Program continued the very successful fly tying in the classroom program to introduce students to fly fishing. ADF&G staff, King Career Center Students and other adult volunteers visited 140 classes and worked with 3,213 students to tie the four life history patterns (egg, eyed egg, alevin, fry) they would observe in classroom incubators, as well as some advanced patterns. The majority of school presentations this year, as in past years, were requests for salmon dissections and fly tying.

Field Educational Experiences

The STREAM Program occasionally receives requests from groups to lead outdoor presentations at a local stream or river. These talks range from assisting a Girl Scout Troop earn a nature badge to more detailed discussions with technical groups to consult on stream problems. Most of the field trips are based on a watershed perspective so that participants can become more aware of the “big picture,” that fish and aquatic organisms require more than just water to survive and how man’s impacts on a watershed can impact aquatic life. Hands-on activities usually accompany these presentations and typically several sites may be visited along a stream to discuss changes that have occurred in the system. Hands-on activities may include: sampling aquatic macroinvertebrates using nets, trapping juvenile salmonids or testing water quality with test kits. All these activities are incorporated into the presentation so that the “big picture” becomes clear.

In 2004, 302 students were led on watershed field trips to Campbell Creek in Anchorage, the Russian River near Cooper Landing and Slikok Creek and Moose River near Soldotna. Soldotna staff also led field trips to the Anchor River and Nanwalek River on the Lower Kenai Peninsula (Table 4).

Teacher Workshops/In-Services

Teachers are becoming more interested in educating their students about salmon and streams. If trained properly, these teachers can assist the department in getting the word out in their classrooms. This becomes even more important when demand for STREAM Program staff class visitations exceeds available time. It is for this reason that the proper training of instructors is a high priority of the STREAM Program. Time is well spent when you can assemble several teachers together at a single time rather than on a one-on-one basis. Teacher workshops are considered formal or informal. Informal training sessions are not required by a school district where in-services are formal training sessions required by a district. Other sessions may involve the training of volunteers to assist at a STREAM Program event.

During 2004, 3 teacher training events were held and attended by 97 people (Table 5), including the Cooperative Extension Service’s Incubation Workshop for statewide teachers in Fairbanks.

Adopt-A-Stream Program

Adopt-A-Stream (AAS) programs have become increasingly popular across the country. These programs enable the general public to care for or monitor a favorite section of stream. In Southcentral Alaska these AAS projects are also used as an educational tool. The STREAM Program works primarily with schools and non-profit groups who wish to establish AAS projects. The program has grown from a single project in 1996 to seven projects in 2004 (Table 6) with approximately 390 stream watchers. There was no change in activity from the previous year. Participating adult groups are most interested in cleaning up sections of stream.

Schools may participate in AAS projects for educational purposes. Too many similar monitoring projects have promised teachers that their data would be stored in databases or used to fix potential problems in their streams, and historically these promises have never been kept. Many educators lost faith in these programs as a result and the STREAM Program has attempted to restore some of that lost faith in the name of education.

Table 4.-Field educational experiences conducted by the ADF&G STREAM Program, 2004.

Date	School/Organization	# Students	Age Group	Location	Subject
09/04*	Mt. View Elementary	45	Elementary	Russian River	Weir trip/watershed
02/27*	Kalifornsky Beach Elementary	23	Elementary	Slikok Creek	Stream ecology/sampling
03/19*	Central Kenai Pen. Boys and Girls Club	13	Elementary	Sport Lake	Ice fishing
04/16	Anchorage, Fairbanks and Kenai Peninsula	40	High School	Alaska RR – ANC to SWD	Watershed interpretive training – Placer and Kenai
04/27	King Career Center	12	High School	SF Campbell Creek	Watershed/stream ecology/sampling
04/27	King Career Center	12	High School	SF Campbell Creek	Watershed/stream ecology/sampling
04/28	Inlet View Elementary	35	Elementary	SF Campbell Creek	Watershed/stream ecology/sampling
04/30*	Sterling Elementary	21	Elementary	Moose River	Watershed/stream ecology/sampling
04/30*	Sterling Elementary	21	Elementary	Moose River	Watershed/stream ecology/sampling
05/06*	Nanwalek School	14	Elementary	Nanwalek River	Watershed/stream ecology/sampling
05/06*	Nanwalek School	13	Middle School	Nanwalek River	Watershed/stream ecology/sampling
05/06*	Nanwalek School	11	High School	Nanwalek River	Watershed/stream ecology/sampling
05/18*	Mt. View Elementary	23	Elementary	Beaver Creek	Watershed/stream ecology/sampling
05/19*	Chapman School	19	Elementary	Anchor River	Watershed/stream ecology/sampling
Total	14	302			

* Presentations made by STREAM Program Biologist – Soldotna office.

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Table 5.-Teacher workshops and in-services conducted by the ADF&G STREAM Program, 2004.

Date	District	Teachers	Location	Subject
09/10	Statewide	22	Fairbanks	CES incubation workshop
9/19	Kodiak	50	Kodiak	3 part college credit course – salmon program
4/19	Valdez	25	Valdez	STREAM Program introduction
Total	3	97		

Table 6.- Adopt-A-Stream programs sponsored by the ADF&G STREAM Program, 2004.

Stream	School/Organization	Number Participants	Activity	Road Crossing Sign
Kenai River	Alaska Fly Fishers	90	cleanup	yes
Chester Cr.	Rogers Park Elementary	30	clean/monitor	no
Slikok Cr.	Kalifornsky Beach Elementary	50	clean/monitor	no
Moose River	Sterling Elementary	50	clean/monitor	yes
Campbell Cr.	Gladys-Wood Elementary	30	clean/monitor	no
Ship Creek	Aerospace 3 rd EMS Ground Equip. and Flight	100	cleanup	yes
Ship Creek	3WG Maintenance Operations Center	40	cleanup	yes
Totals	7	390		

Teachers are informed up front that the purpose of the program is educational and not scientific in nature. It is suggested that schools participate at whatever level they feel comfortable with and that they are collecting water quality data to maintain their own database. This database can then be used to “communicate” findings with other schools in the same watershed or even different areas.

Water quality sampling equipment has been made available to teachers in Anchorage, the Matanuska Valley and the Kenai Peninsula. Instructors who have completed a training course may check the kits out for use at their AAS site. These kits are currently available for check out at the King Career Center (KCC) in Anchorage, the ADF&G area office in Palmer, the Kenai River Center and ADF&G area office in Soldotna, and the ADF&G office in Homer.

Schools may participate at varying levels in activities which may include stream cleanup (litter), stream and habitat surveys, macroinvertebrate (aquatic insect) surveys, water quality testing using chemical test kits, or involvement in an actual small-scale stream restoration project if they determine one may be necessary.

Educational Material Development

As the STREAM Program’s educational effort continues to expand so does the need for new materials to meet the demands of the growing program. The STREAM Program continues to design new effective hands-on ways to increase the public’s awareness of Alaska’s salmon resources.

STREAM Program educational developments from 2004 (Table 7) include:

1. *Alaska’s Wild Salmon* continued to be distributed to teachers in Southcentral Alaska. A total of 99 copies was distributed.
2. “First Catch” cards were again printed, laminated and distributed to children catching their first fish during STREAM Program ice fishing events and the Great Alaska Sportsman’s Show. A total of 210 cards was distributed.

Table 7.-Educational materials developed by the ADF&G STREAM Program, 2004.

EDUCATIONAL AID	COMMENTS
Salmon dissection program	792 salmon distributed and utilized by 4,732 students
<i>Alaska's Wild Salmon</i> book	99 copies distributed to all southcentral Alaska schools
Primary <i>Salmonids in the Classroom</i> curriculum	28 copies distributed, reprinted
Salmon life cycle poster	284 copies distributed
Salmon egg/vial displays	16 distributed
Adopt-A-Stream Streamkeepers manual	16 copies to participating AAS schools and agency people
ADF&G incubation program manuals	23 copies distributed
<i>ADF&G Incubator Setup for Dummies</i> manual	Written, printed, 70 copies distributed to teachers
First Catch Card program	210 cards distributed to kids catching their first fish
Sport Fish Region V Watershed poster	15 distributed to incubation program instructors
ADF&G game fish species poster	9 copies distributed
<i>Fly Tying in the Classroom</i> pamphlets	3,180 distributed to classroom participants
STREAM Program educational trailer	Began service
Educational web sites	Updated and improved
Grant requests	KRSA for chillers (received funding for 22 chillers)
GASS pond volunteer T-shirts and hats	New design "Thank you" for pond and program volunteers
GASS scholarship	\$2,542 from GASS to KCC Natural Resources students
Best Management Practices Workshop	STREAM Program staff attend workshop in Fairbanks
Wood Frog experiment	Trailer/event displays, poster, classroom experiment with frogs and tadpoles
Sabertooth salmon hat	Hat by artist Ray Troll for kids to color and wear at events
Salmon Family Tree	Artwork by artist Ray Troll to accompany hat activity
King salmon stamp artwork	Contributed by Ray Troll for 2004 king salmon stamp
3-D glasses	Purchased to view exterior artwork of aquatic ed. trailer
Bristol Bay/Prince William Sound expansion	Staff traveled to Dillingham and Valdez to start expanding program to those areas of the region
Sound system	Upgrade so two people can talk at once through microphones
Fly fishing photos for fly tying program	Photos of fish caught on school flies so children can see the flies they tie in the classroom in action
Macroinvertebrate viewers	Purchased 50 for trailer and area staff
Chucky Chum rubber stamp activity	Purchased activity sets for Soldotna and Kodiak
Refrigeration units	Assisted Fairbanks staff with construction of 4 chiller units
Northern pike	Hundreds of fish donated by Soldotna staff – shared with Fairbanks staff

3. Salmon life cycle posters (284) and egg development vial displays (16) continue to be distributed to instructors.
4. Educational web pages continue to be created and updated for use by instructors.
5. A new pictorial guide to setting up a classroom incubator, *Classroom Incubator Setup for Dummies* was developed and printed. Seventy copies were distributed.
6. STREAM Program staff visited the Bristol Bay (Dillingham) and Prince William Sound (Valdez area) to discuss expansion of the STREAM Program to those areas with teachers.

OUTREACH

Stream Restoration/Habitat Activities

Integration of small-scale stream restoration projects with education has been an effective tool in increasing the public’s awareness of salmon and especially the protection of their habitat. These projects are often very time consuming to plan, coordinate and implement, so unfortunately, the STREAM Program continues to decrease its efforts in this area, but will make opportunities available to the public should they become available at a reasonable time and cost.

During 2004, only one restoration/habitat project occurred, and that was a meeting along a streambank on the Little Susitna River to discuss a potential school restoration project with an instructor (Table 8).

Shows and Special Events

Large events or shows (Table 9) are an excellent way to reach out to segments of the population that may not have access to or a specific interest in fish or fishing. The activities at events in which the STREAM Program participates are always very hands-on oriented and easy to understand by the general public.

The STREAM ice fishing program continues to be a popular hands-on activity for instructors with an interest in expanding on their classroom salmon projects. This project serves as an introduction to winter fishing opportunities around Southcentral Alaska with ice fishing events held in Anchorage (Jewel Lake), the Matanuska-Susitna Valley (Finger Lake) and the Kenai Peninsula (Sport Lake). In Anchorage 1,969 students caught 375 fish, almost exclusively catchable Chinook salmon *Oncorhynchus tshawytscha*. Of the Anchorage student anglers who caught fish, 116 caught their first fish ever. The ice fishing event in the Matanuska-Susitna Valley at Finger Lake had to be cancelled in 2004 due to poor weather conditions. However, an ice fishing event for Kenai Peninsula area schools was introduced this year in Soldotna at Sport Lake. Two hundred and ten students participated and caught 63 catchable Chinook salmon. Three of those students who caught fish caught their first fish ever.

Table 8.-Stream restoration/habitat activities (outreach) conducted by the ADF&G STREAM Program, 2004.

Date	Location	No. Volunteers	Man Hours	Coop Agency/Org	Project
06/23/03	Little Susitna R. ^a	0	0	ADFG/Wasilla MS	River access/Rehab options
Total	1	0	0		

^a Meeting held between ADF&G and instructor to discuss potential restoration projects with school participation.

Table 9.-Shows and special events attended or sponsored by the ADF&G STREAM Program, 2004.

DATE	EVENT	LOCATION	ATTENDANCE	# VOLUNTEERS	PURPOSE	COMMENTS
10/07	Fairbanks Salmon Celebration	Tanana River - Fairbanks	510	62 (310 man hours)	salmonid awareness	egg take and hands-on activity booths – 28 classes
01/08	Sport Fish Regulations Art Contest	Southcentral region	296	0	Student artwork for regulation covers	Kristi Knutson – 1 st place
01/08	Sport Fish Regulations Art Contest	Bristol Bay region	45	0	Student artwork for regulation covers	Sharolynn Zackar – 1 st place
01/08	Sport Fish Regulations Art Contest	Kodiak region	68	0	Student artwork for regulation covers	Stephen Zemke – 1 st place
01/12	Anchorage School District ice fishing	Jewel Lake Anchorage	464	18 (48 man hours)	Winter fishing opps.	116 fish, 33 first catch cards
01/13	Anchorage School District ice fishing	Jewel Lake Anchorage	557	9 (36 man hours)	Winter fishing opps.	75 fish, 28 first catch cards
01/14	Anchorage School District ice fishing	Jewel Lake Anchorage	473	11 (44 man hours)	Winter fishing opps	64 fish caught, 24 first catch cards issued
01/15	Anchorage School District ice fishing	Jewel Lake Anchorage	475	11 (44 man hours)	Winter fishing opps	120 fish caught, 31 first catch cards issued
01/21	Kenai Peninsula School District ice fishing	Sport Lake Soldotna	210	2 (8 man hours)	Winter fishing opps	63 fish caught, 3 first catch cards issued
02/06	Becoming an Outdoor Woman	Solid Rock Bible Camp - Soldotna	4	0	Fishing opps.	Fly tying – 17 patterns
02/07	Becoming an Outdoor Woman	Solid Rock Bible Camp - Soldotna	15	0	Winter fishing opps	Ice fishing at Sport Lake 10 fish caught
02/08	Becoming an Outdoor Woman	Solid Rock Bible Camp - Soldotna	7	0	Fishing opps.	Fly tying – 13 patterns – Overall event attendance - 108
04/01	Great Alaska Sportsman Show	Ben Boeke Arena - Anchorage	355		ASA Kids Fishing Pond	KCC volunteers–pond, fish cleaning, 7 1 st catch cards issued

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Table 9.-Page 2 of 3.

DATE	EVENT	LOCATION	ATTENDANCE	# VOLUNTEERS	PURPOSE	COMMENTS
04/02	Great Alaska Sportsman Show	Ben Boeke Arena - Anchorage	70		ASA Kids Fishing Pond	ASD Intensive Needs special fishing event at pond
04/02	Great Alaska Sportsman Show	Ben Boeke Arena - Anchorage	600		ASA Kids Fishing Pond	KCC volunteers - pond, fish cleaning, 30 1 st catch card issued
04/03	Great Alaska Sportsman Show	Ben Boeke Arena - Anchorage	1,050		ASA Kids Fishing Pond	KCC volunteers-pond, fish cleaning, 38 1 st catch cards issued
04/03 *	Homer Fishing Fair	Homer	150	0	salmonid/ fishing awareness	hands-on activity booths
04/04	Great Alaska Sportsman Show	Ben Boeke Arena - Anchorage	550	Total for event - 40 (420 man hours)	ASA Kids Fishing Pond	KCC volunteers-pond, fish cleaning, 16 1 st catch cards issued
04/08	ASD - KCC recognition presentation	ASD King Career Center	20	0	Recognize KCC class for volunteering	volunteer shirts and hats awarded
04/14	ASD - KCC scholarships presentation	ASD King Career Center	125	0	Present GASS scholarships to Natural Resource Class students	Shantel Cox - \$1,000, Ashlee Bliss - \$500, Nick Figarelle - \$500, Mike Courtney - \$500, Ted Rognes - \$250, Berney Pitchert - \$250
04/28	ASD volunteer recognition banquet	Mears Middle School	400	0	recognition	STREAM program recognition by Carol Comeau (ASD Super.)
05/04	Kenai Pen. Salmon Celebration	Johnson Lake - Kasilof	521	55 (275 man hours)	salmonid/ fishing awareness	hatchery trout release and hands-on activity booths – 25 classes
05/07	Anchorage Salmon (fry) Celebration	Taku-Campbell Lake - Anchorage	1,429	65 (248 man hours)	salmonid/ fishing awareness	classroom fry release and hands-on activity booths – 58 classes
05/11	Mat-Su Salmon Celebration	Matanuska Lake - Palmer	780	50 (200 man hours)	salmonid/ fishing awareness	hatchery trout/school fry release and hands-on activity booths – 35 classes

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Table 9.-Page 3 of 3.

DATE	EVENT	LOCATION	ATTENDANCE	# VOLUNTEERS	PURPOSE	COMMENTS
05/18	Kodiak Island Salmon Celebration	Kodiak boat harbor "spit"	1,012	66 (330 man-hours)	salmonid/fishing awareness	hands-on activity booths – release off site (Island Lake) – 50 classes
05/21	Creekside Elementary Potlatch	Creekside Elementary School	75	0	recognition	student potlatch held to thank STREAM Program staff
05/28	Anchorage Salmon (smolt) Celebration	Campbell Creek - Anchorage	1,078	65 (244 man hours)	salmonid/fishing awareness	smolt release and hands-on activity booths - 48 classes
06/12*	Kenai River Festival	Kenai	500	8 (48 man hours)	salmonid awareness	hands-on activity booths and fish t-shirt printing
06/13*	Kenai River Festival	Kenai	400	8 (48 man hours)	salmonid awareness	hands-on activity booths and fish t-shirt printing
Total			12,239	470 (2,303 man hours)		

* Presentations made by STREAM Program Biologist – Soldotna office.

The “Salmon Celebration” program continued during 2004. All of the Salmon Celebrations are associated with a spring fish release with the exception of the Fairbanks area, which occurs during the fall egg take, and Kodiak which now occurs away from the event location.

The two Anchorage events had a combined attendance of 2,507 students. The first Anchorage Salmon Celebration was held in conjunction with the release of classroom incubation coho fry by participating Anchorage area schools. The second event was a district-wide event where Anchorage school students were given coho smolt to release as part of ADF&G’s urban coho stocking program. The smolt came from the Ft. Richardson Hatchery.

The Salmon Celebration held in Kodiak was moved in 2004 to the city boat harbor “spit” area where it has become a more community-oriented event. Attendance at the Salmon Celebration this year was 1,012 students.

The Matanuska-Susitna Valley Salmon Celebration was a combined fish release event. Students who had raised coho salmon in their classrooms released their fish into Matanuska Lake. Other district-wide students who were in attendance received catchable rainbow trout from Elmendorf Hatchery in Anchorage to release as part of the annual stocking program. Overall attendance was 780 students.

The Kenai Peninsula Celebration had an attendance of 521 students. Students attending from around the Kenai Peninsula School District were given catchable rainbow trout from the Ft. Richardson Hatchery to release into Johnson Lake in Kasilof. These catchable fish were also part of the stocking allocation for that lake.

After releasing their fish, classes visited the hands-on booths where they learned more about various salmon, stream and fishing topics. The activity booths included salmon life cycle rubber stamps, macroinvertebrate touch tank, live fish display, salmon habitat “wheel of misfortune,” watershed model, face painting, animal skulls, hides and tracks, salmon anatomy puzzle, handouts (including fishing regulations), fly tying and fly casting stations, and spin casting station. Alaska Sealife Center staff also attended the second Anchorage event this year and set up an activity booth.

The Fairbanks area Salmon Celebration was held in the fall during the school egg take because it would have been difficult to assemble all the participating classes for a spring event. Five hundred and ten students from the Fairbanks area attended the event at the Tanana River Wayside. After doing the hands-on activities the classes left with their eggs for their classroom projects.

Overall attendance for all the Salmon Celebration events was 5,330 students. Three hundred and sixty three volunteers made these events possible this year, including students from Rabbit Creek Elementary school and King Career Center in Anchorage; Teeland Middle and Wasilla High schools in the Matanuska-Susitna Valley; Sterling elementary school in Soldotna; Arctic Light Elementary in Fairbanks; and North Star Elementary, Kodiak High School and Larsen Bay School in Kodiak.

Other major events this past year included the Kid's Fishing Pond with activity booths and local celebrity helpers at the Great Alaska Sportsman's Show (GASS) (2,625 children) and the Kenai River Festival (900 children).

GASS organizers with Aurora Productions again donated 50% (\$2,542) of the children's show admission fee to the King Career Center's Natural Resources Class for running the Kid's Fishing Pond at the show. Scholarships were then awarded to college-bound students interested in pursuing careers in fish or wildlife with the donation.

This year's Sport Fish regulations cover art contest was held in three regions: Southcentral (combined Cook Inlet/Prince William Sound area), Bristol Bay and Kodiak. Four hundred and nine entries were received from the three areas and fishing poles and other small prizes were awarded to the first through third place winners.

The STREAM Program also teamed up with the ADF&G Division of Wildlife Conservation to work with women who wanted to learn about outdoor hunting and fishing skills through the nationally recognized “Becoming an Outdoor Woman” Program. STREAM Program staff coordinated the event and held sessions to teach the attendees how to tie flies and ice fish. One hundred and eight woman attended this event, the first held in Southcentral Alaska since the early 1990's.

Many volunteers make these large events possible. In 2004, 470 volunteers spent at least 2,303 man-hours ensuring that events were a success for the 12,239 people participating in or attending this year's events.

Aquatic Education Classroom Trailer

In FY02 the STREAM Program received funding through the Wildlife Conservation and Restoration Program (WCRP) to construct a 40-foot aquatic education classroom trailer. During FY02 and FY03 the trailer design, bid and construction process occurred. The Department of

Transportation (DOT) took over the bid process after STREAM Program staff worked with trailer manufacturers to design the trailer. The trailer was delivered to Alaska in March 2003, and a mural depicting salmon and their life cycle was completed at the end of June 2003 by well-known Alaska artist Ray Troll and his crew.

Several partners contributed to the trailer project. Sponsors who contributed \$10,000 to the trailer project in FY02 include the Kenai River Sportfishing Association and Phillips Alaska. In FY03, the Fred Meyer Foundation also contributed \$10,000 to the project.

During this inaugural year, the trailer made appearances at 41 events and had 24,617 visitors or project participants (Table 10). Many activities were conducted in the trailer for the public as well as school groups. These included macroinvertebrate studies, fly tying, tide pool organism touch tanks and fish t-shirt printing, as well as a variety of other hands-on activities.

Table 10.-Aquatic Education Trailer events and activities, 2004.

Date	City	Event	Attendance	Age	Activities
07/01	Soldotna	Kenai R. Classic	20	Adult	Fly tying
07/04	Anchorage	July 4 Parade	5,000	All	Parade float
07/04	Anchorage	July 4 Celebration	1,500	All	Hands-on Salmon activities/ regulations
07/19	Anchorage	Governor's Picnic	2,000	All	Trailer dedication, live fish, frogs, aquatic insects, activities
08/09	Anchorage	Oceans Festival	927	All	Live fish, frogs, aquatic insects, activities
08/25	Palmer	AK State Fair	1,460	All	Live fish, frogs, aquatic insects, t-shirt prints
09/22	Anchorage	ASD Egg takes	349	Elementary	Macroinvertebrates, 3-D glasses, salmon ID
09/23	Anchorage	ASD Egg takes	311	Elementary	Macroinvertebrates, 3-D glasses, salmon ID
09/24	Anchorage	ASD Egg takes	577	Elementary	Macroinvertebrates, 3-D glasses, salmon ID
09/25	Anchorage	ASD Egg takes	414	Elementary	Macroinvertebrates, 3-D glasses, salmon ID
09/26	Anchorage	ASD Egg takes	678	Elementary	Macroinvertebrates, 3-D glasses, salmon ID
09/27	Anchorage	ASD egg takes	200	Elementary	Macroinvertebrates, 3-D glasses, salmon ID
09/30	Palmer	MSBSD egg takes	552	Elementary	Macroinvertebrates, 3-D glasses, salmon ID

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Table 10.-Page 2 of 3.

Date	City	Event	Attendance	Age	Activities
10/01	Palmer	MSBSD egg takes	386	Elementary	Macroinvertebrates, 3-D glasses, salmon ID
10/06	Fairbanks	FBKS Open House	80	All	Macroinvertebrates, 3-D glasses, salmon ID, fly tying
10/07	Fairbanks	FBKS egg takes	510	Elementary	Fly tying – egg pattern
10/14	Seward	Seward Elementary	275	Elementary	Macroinvertebrates, 3-D glasses, salmon ID, watershed
10/15	Seward	KPBSD egg takes	147	Elementary	Macroinvertebrates, 3-D glasses, salmon ID
10/20	Anchorage	Creekside Elem.	151	Elementary	Life cycle, salmon ID, dissections
04/01	Anchorage	GASS	500	All	Fly tying, t-shirt prints
04/02	Anchorage	GASS	500	All	Fly tying, t-shirt prints
04/03	Anchorage	GASS	900	All	Fly tying, t-shirt prints
04/04	Anchorage	GASS	600	All	Fly tying, t-shirt prints
04/23	Soldotna	Soldotna Sport. Show	600	All	T-shirt prints
04/24	Soldotna	Soldotna Sport. Show	400	All	T-shirt prints
04/27	Anchorage	Watershed III - ANC	30	High School	Macro collection and ID, juvenile fish ID
04/27	Anchorage	Watershed III - ANC	32	Elementary	Macro collection and ID, juvenile fish ID
04/27	Anchorage	Watershed III - ANC	5	JHS/HS	Macro collection and ID, juvenile fish ID
04/29	Anchorage	Watershed III - ANC	15	High School	Macro collection and ID, juvenile fish ID
04/29	Anchorage	Watershed III - ANC	50	Elementary	Macro collection and ID, juvenile fish ID
04/30	Anchorage	Watershed III - ANC	32	Elementary	Macro collection and ID, juvenile fish ID
04/30	Anchorage	Watershed III - ANC	70	Junior High	Macro collection and ID, juvenile fish ID
05/04	Kasilof	KPBSD Salmon Cel	521	Elementary	Fly tying – egg pattern
05/10	Palmer	MSBSD Salmon Cel	780	Elementary	Fly tying – egg pattern
05/17	Kodiak	Kodiak Open House	100	All	Tide pool touch tanks/displays, macroinvertebrates, salmon hats
05/18	Kodiak	KOD Salmon Cel	1,012	Elementary	Tide pool touch tanks/displays
05/22	Seward	Seward Fishing Day	120	K-12	Macroinvertebrates

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Table 10.-Page 3 of 3.

Date	City	Event	Attendance	Age	Activities
05/28	Anchorage	ASD Salmon Cel	1,078	Elementary	Macroinvertebrates
06/10	Juneau	Pathways to Fishing	60	K-12	Macroinvertebrates
06/12	Juneau	Juneau Fishing Day	1,600	K-12	Macroinvertebrates, fly tying
06/14	Haines	Haines Open House	75	All	Macroinvertebrates
Totals	41		24,617		

Media Coverage

The media (Table 11) continues to play an important role in getting the STREAM Program word out to the public. Anchorage area media are very interested in the various projects that the STREAM Program conducts and although most stories are considered general interest, it still assists the department in getting the word out. The positive nature of these stories can only help a department whose media image, unfortunately, is oftentimes negative. Media in other areas of the state and even the country have become interested in STREAM Program activities as it expands into new areas of Southcentral Alaska. In 2004 STREAM Program events or topics were covered 84 times. The STREAM Program will continue to take advantage of the media when there is interest in helping the department get more information out to the public.

Requests for Information or Materials

Table 12 documents requests for information or materials during 2004. In 2004, the STREAM Program responded to 997 requests. These requests ranged from phone information to loans of scientific or educational materials.

Program Contributions

Many agencies, schools, businesses, organizations and individuals have made contributions to the STREAM program to either support or enhance activities. It is important to recognize and thank these people for their generous support. This year's contributors include:

Great Alaska Sportsman's Show:

ASD King Career Center – manpower to run pond

SAM's Club (\$100), Anchorage Cold Storage (\$75) and Bill's Distributing (\$125) – soft drinks for volunteers

Arctic Roadrunner (\$1800 – 300 burger cards), Block Buster Video (\$50, Classic Toys (\$1,000), KIMO 13 (\$100), Sportsmen's Warehouse (\$75) - pond prizes.

KTUU Channel 2 (John Carpenter, Lars Peterson, Meg Stapleton), KIMO Channel 13 (Ty Hardt, Cary Carrigan, Laura Tanis, Lauren Reeves, Annie Roach, Rebecca Palsha, Bob Mallory), MAGIC 98.9 FM (Marcus Lewis, April Powers, Dave Flavin), FOX 100.5 FM (Bob Lester, Mark the Hitman), Clear Channel radio staff (Julie Shumway, Phil Kern), ASD Superintendent Carol Comeau – Celebrity assistance at the Kid's Fishing Pond.

Anchorage Fire Department – pond fill

Table 11.-Media coverage of the ADF&G STREAM Program, 2004.

Date	Media Organization	Event	Coverage Type
07/03	KTUU 2	Kraus accepts Carp fishing challenge	TV sports
07/06	KTUU 2	Campbell Creek poaching problem	Television news
07/18	Anchorage Daily News	Governor's Picnic	"Hometown" article
07/18	State of Alaska	Governor's Picnic	State web site
07/19	KTVA 11	Governor's Picnic	Television news
07/20	Anchorage Daily News	Alaska Ocean's Festival event	Outdoors – news release
08/25	KIMO 13	AK State Fair – Kid's Day - Trailer	Television news
09/04	KTUU 2	Kraus vs. Carp Kenai River coho	"Fishing Report"
09/05	KTUU 2	Kraus vs. Carp Kenai River coho	"Fishing Report" web site
09/21	Anchorage Daily News	ASD egg take	Outdoors – news release
09/22	KTUU 2	ASD egg take	Television news
09/22	KTVA 11	ASD egg take	Television news
09/22	KIMO 13	ASD egg take	Television news
09/22	KTUU 2	ASD egg take Kraus dis at Carpenter	TV Sports fishing challenge
09/23	KTUU 2	ASD egg take	"Morning Edition" TV news
09/23	Mirror Studios - ANC	3 PSA voice overs	ADF&G PSAs
09/29	Anchorage Daily News	ASD egg take	Photo/caption
10/07	NBC 11 - Fairbanks	Fairbanks egg take	Television news
10/07	Valley Frontiersman	MSBSD egg take	Newspaper article
10/10	FBKS Daily News Miner	Aquatic Ed. Trailer	Front page newspaper article
10/10	FBKS Daily News Miner	Fairbanks egg take	Outdoors – newspaper article
10/23	Seward Phoenix Log	Seward Elementary trailer event	Newspaper article
10/31	Kodiak Daily Mirror	Kodiak egg take	Newspaper article
11/01	Talkeetna Good Times	Aquatic Ed. Trailer	Front page picture/caption
11/23	Anchorage Daily News	Regulations art contest	Outdoors – news release
12/01	Talkeetna Good Times	MSBSD egg take	Newspaper article
12/01	Peninsula Clarion	BOW event	News release
12/03	KTUU 2	Lake Hood fish Dissection	Television news
12/08	KTUU 2	Lake Hood Kraus dis at Carpenter	TV Sports fishing challenge
12/14	Anchorage Daily News	Regulations art contest	Outdoors – contest reminder
12/15	Valley Frontiersman	MSBSD fly tying	Newspaper article
12/18	Anchorage Chronicle	Regulations art contest	News release
12/19	Peninsula Clarion	BOW	Newspaper article
12/20	Local networks and cable	Invasive species – pike	ADF&G - PSA
12/20	Local networks and cable	Invasive species – aquarium fish	ADF&G - PSA
12/20	Local networks and cable	Invasive species – clean boots	ADF&G - PSA
12/24	Kenai R. Sportfishing	Aquatic Education Trailer	Newsletter article
01/11	Anchorage Daily News	ASD ice fishing event	Outdoors – news release
01/12	KTUU 2	ASD ice fishing event	Television news
01/12	KTBY 4	ASD ice fishing event	Television news
01/12	KTVA 11	ASD ice fishing event	Television news
01/12	KIMO 13	ASD ice fishing event	Television news
01/13	Anchorage Daily News	ASD ice fishing event	Metro – photos/captions
01/18	Anchorage Daily News	BOW event	Outdoors – news release
01/19	KBFX 100.5	BOW event	Event promotion

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Table 11.-Page 2 of 2.

Date	Media Organization	Event	Coverage Type
01/19	KENI	BOW event	Event promotion
01/19	KYMG 98.9	BOW event	Event promotion
01/19	KGOT 101.3	BOW event	Event promotion
01/19	KASH 107.5	BOW event	Event promotion
01/20	KEAG 97.3	BOW event	Event promotion
01/21	Nickelodeon Channel	Ice fishing program	Cable TV kids news brief
01/24	KSKA	ASD ice fishing event	Radio segment
01/27	KYMG 98.9	BOW event	Event promotion
01/28	Peninsula Clarion	KPBSD ice fishing event	Newspaper article
02/01	Anchorage Daily News	BOW event	Event release
02/09	KIMO 13	BOW event	Television news
02/12	Anchorage Press	BOW event	Newspaper article
02/15	Anchorage Daily News	BOW event	Newspaper article
02/15	Peninsula Clarion	BOW event	Newspaper article
02/16	KIMO 13	BOW event	Television news
02/17	Kodiak Daily Mirror	Art contest comment	“Talk of the Dock”
02/19	Kodiak Daily Mirror	Kodiak art contest winner	Newspaper article
02/19	Kodiak Daily Mirror	North Star incubation project	Alevin photo/caption
03/04	Peninsula Clarion	BOW event	Thank you
03/15	Alaska Magazine	Aquatic Education Trailer	“Field Notes” article
03/24	KASH 107.5	GASS Kids Fishing Pond	Event promotion
03/27	Anchorage Daily News	BOW event	Thank you
03/28	Anchorage Daily News	GASS pond and trailer	Show supplement
03/30	KEAG 97.3	GASS Kids Fishing Pond	Event promotion
03/31	Peninsula Clarion	School fish dissection	Newspaper article
04/01	KTUU 2	GASS Kids Fishing Pond	“To Do List” promotion
04/01	KYMG 98.9	GASS Kids Fishing Pond	Event promotion
04/02	KTUU 2	GASS Kids Fishing Pond	World According to Carp
04/03	KTUU 2	GASS Kids Fishing Pond	Television news
04/25	Peninsula Clarion	Soldotna Sports Show	Newspaper article
05/07	KTVA 11	ASD fry release – Taku-Campbell L.	Television news
05/07	KTBY 4	ASD fry release – Taku-Campbell L.	Television news
05/13	Kodiak Daily Mirror	Kodiak Salmon Celeb./Trailer	News release
05/18	Kodiak Daily Mirror	Kodiak Salmon Celeb./Trailer	Newspaper article
05/18	KMXT - Kodiak	Kodiak Salmon Celeb./Trailer	Radio segment
05/28	KTVA 11	ASD smolt release	Television news
05/28	KIMO 13	ASD smolt release	Television news
06/03	KTUU 2	Carpenter dis at Kraus	TV Sports Fishing challenge
06/06	Juneau Empire	Juneau trailer visit/program	Outdoors section article
Total	84		

Table 12.-Requests for information, materials and equipment from the ADF&G STREAM Program, 2004.

Requests for materials or information	976
Educational material loans	16
Scientific or field equipment loans	5
Total	997

Fly Tying in the Classroom Program:

- ASD King Career Center – volunteer classroom support
- Eagle Claw – supplied hooks for fly tying program

Classroom Salmon Egg Incubation Program and Salmon Celebrations:

- Kenai River Sportfishing Association (\$12,000) – Refrigeration equipment (22 chillers) for the classroom incubation program
- Kodiak School District (\$5,000) – Flights for 2 crew to rural villages
- Rabbit Creek Elementary and King Career Center (ASD), Teeland Middle School and Wasilla HS (MSBSD), Sterling Elementary (KPBSD), North Star Elementary, Kodiak High School and Larsen Bay School (Kodiak) – volunteer staffing
- Safeway/Kiwanis Club – Food, drinks and staff for Kodiak Salmon Celebration
- Pepsi Co. – 2,100 cans of pop for MSBSD and ASD Salmon Celebrations
- MAGIC 98.9 FM (Dave Flavin), FOX 100.5 FM (Bob Lester), KASH 107.5 (Goat and Jimmy), Clear Channel radio staff (Julie Shumway), ASD Superintendent Carol Comeau, Trill Webster, SC regulations cover art winner Kristi Knutson – Celebrity assistance at the ASD smolt release and Salmon Celebration

Miscellaneous:

- Harbor Seafoods – 500 pink salmon for school dissections.

Stocked Lake Maps Series

Another component that was brought into the Education Program in 1997 was the continuation of the “Stocked Lake Maps” series. In 1995 the staff in the Palmer area office initiated the publication of a series of maps for the lakes stocked in the Matanuska-Susitna Valley area. This publication included information on each lake including a bathymetric (underwater contour) map if available, description of public access to the lake, average depth, maximum depth, volume, map location, stocking history, surface area, Statewide Harvest Survey information and stocking plan. In 1996, this series was expanded to include an Anchorage Lake Map series. In 1997, as part of the I&E program, lake series maps were completed for the Upper Copper and Upper Susitna management area. All of these were also made available online on the regional web pages.

During FY04 80 lakes were updated in the Matanuska-Susitna Valley Stocked Lakes book and three new lakes were added to that series. Five new maps were added to the Kenai Peninsula stocked lake series along with eight new maps of lakes for the Kenai Peninsula pike program. Most maps were updated with current stocking, test net sampling and statewide harvest information. Corrections to maps were also made to the books, and they were made available online.

FUTURE GOALS

Education and Outreach

Future program goals for education and outreach are:

1. Turn Fairbanks area education projects to Region III education staff.
2. Expand the classroom salmon egg incubation program where requested in all areas. Concentrate on expansion on Lower Kenai Peninsula and Prince William Sound.
3. Investigate potential for Bristol Bay area education.
4. Maintain participation level in the school dissection program. Discontinue fly tying in the classroom program (too physically demanding on staff and time).
5. Continue to investigate and take advantage of community funding sources or support to meet the demands of the expanding STREAM Program.

ACKNOWLEDGEMENTS

The STREAM Program would like to acknowledge the efforts of all the volunteers and staff who helped at the many events held this year, but especially to ADF&G technicians Craig Baer and Reilly Kosinski, biologists Tracy Smith, Patti Berkahn, Suzanne Schmidt and Saree Timmons for assisting the STREAM Program during programs throughout Southcentral Alaska. Thanks, as always, to the staff at the Fort Richardson and Elmendorf hatcheries for supplying staff time, fish and stocking coordination and trucks for many of the STREAM Program's events. Thanks to Mike Woods and his Natural Resources class at the King Career Center for making the Great Alaska Sportsman's Show Kids Fishing Pond and activity booths a success and for the many hours the students helped during ice fishing, fly tying, fish releases and carnivals. Thanks to the Rabbit Creek Elementary sixth grade (Anchorage); Teeland Middle and Wasilla High School classes (Mat-Su); Arctic Light Elementary sixth grade (Fairbanks); Sterling Elementary 6th grade classes (Kenai Peninsula); and North Star Elementary (6th grade), Kodiak High School and Larsen Bay School (Kodiak) for making all this year's Salmon Celebrations a success. Thanks to the many other agencies, businesses, organizations and individuals noted previously who have helped this year. Finally, to all the teachers and school district staff throughout Southcentral Alaska and the Interior who make my job enjoyable and rewarding – thanks for helping us make students more aware of our salmon resources. Without the support of volunteers, teachers and community many of the STREAM Program's events would not be possible.

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