

Kodiak Archipelago Youth Area Watch

Project Number: 01610

Restoration Category: General Restoration

Proposer: Chugach Regional Resources Commission

Lead Trustee Agency: ADFG

Cooperating Agency: Kodiak Island Borough School District

Alaska SeaLife Center: Yes

Duration: 2nd year, 3-year project

Cost FY 00: \$61.8

Cost FY 01: \$61.8

Cost FY 02: \$106.1

Geographic Area: Kodiak Archipelago

Injured Resources/Services: Harbor seals, sub-tidal and inter-tidal communities, subsistence, and commercial fishing

ABSTRACT

In FY 99, Chugach Regional Resources Commission collaborated with the Kodiak Island Borough School District to institute an internship program within the Community Involvement Project. This internship program chose one student in the communities of Akhiok, Larsen Bay, Old Harbor, Kodiak and Ouzinkie. In FY 00 this project was expanded to include a Youth Area Watch Program. The program has collaborated with four research projects in FY 00, including EVOS-sponsored 00482, PSP Field Testing Kit; EVOS-sponsored 00245, Harbor Seal Bio-Sampling; intensive monitoring with the Fisheries Industrial Technology Center and National Oceanic and Atmospheric Administration; and an algae testing project with Dr. Gerry Plumley.

Project plans for FY 01 include the expansion of two additional communities to the program, Chiniak and Port Lions, site teacher training in collaboration with the Kodiak College, the construction of a web site for students, teachers, administrators, and project scientists to collaborate, share, and coordinate projects, as well as post data; additional equipment for monitoring activities; and participation by students, teachers and scientists in the annual Science Camp held at Afognak.

All these steps will continue the project in the direction of student oceanographic monitoring in collaboration with the Fisheries Industrial Technology Center, continued beach monitoring for PSP and algal blooms, harbor seal bio-sampling, and hands-on training for a select number of students within the Kodiak Island Borough School District with western scientific knowledge and traditional ecological ways of knowing. A project with the National Marine Fisheries Service to investigate stomach contents of halibut to determine the population and prevalence of sandlance and capelin may possibly be integrated as well.

INTRODUCTION

The Youth Area Watch program instituted in the Prince William Sound and lower Cook Inlet has been one of the most popular and supported projects that the Trustee Council has implemented. The spill area does not strictly include only those areas; it also encompasses the Kodiak Archipelago and the Alaska Peninsula.

During the spring of 1998 Kodiak Island Borough School District personnel and the Chugach Regional Resources Commission personnel began to discuss the development of the Kodiak Youth Area Watch. In September 1998 CRRC was funded through the EVOS Trustee Council to implement the KYAW project. The KIBSD and the CRRC later signed a Memorandum of Agreement.

In January 1999 KYAW applications were sent to all eight communities in the Kodiak archipelago to prompt student, teacher, and community participation. The village of Larsen Bay had one intern, the village of Karluk had one intern and one alternate, the village of Old Harbor had one intern and one alternate, and the village of Akhiok had one intern. Each of the six student interns researched, locally, the effect of the 1989 oil spill in their village by interviewing elders and other community members. Students also participated in the 10th year Symposium held in March 1999 where they reported on the status of their research activities within the KYAW Program.

During the remainder of the spring of 1999, CRRC and KIBSD personnel researched possible projects for the KYAW and sought to increase the number of students participating. CRRC later submitted a proposal to continue the KYAW for FY 00. Once the proposal was approved, CRRC and the KIBSD signed a Memorandum of Agreement.

In FY 00, the KIBSD and CRRC were successful with implementing four core research projects, two of which were funded by the Trustee Council. These projects included 1) 00482, Field-Testing of PSP Test Kits for Subsistence Use; 2) 00245, Harbor Seal Bio-sampling, will train and involve KYAW participants in the program. They were trained in how to conduct a bio-sample, where to ship the sample, and what the uses of the seal are for research; 3) Dr. Gerry Plumley, University of Alaska-Fairbanks, received funding from the Alaska Science and Technology Foundation to test algae for a possible connection to the infection of PSP to shellfish. He has involved KYAW participants in FY 00 and will continue to utilize them in FY 01; and 4) the Fisheries Industrial Technology Center and National Oceanic and Atmospheric Administration have been working closely with the program to develop and implement a long-term, consistent monitoring program that will focus on salinity, water temperature, and a host of

other oceanographic indicators. Comprehensive monitoring kits were purchased for the participants in each of the communities to use.

Increased involvement by students, teachers and community members was realized during the 1999-2000 school year to include: four students from Ouzinkie, one teacher and one community member; two students from Old Harbor, one teacher, and several community members; two students from Larsen Bay, one teacher, and one community member; two students from Kodiak, and one teacher; and two community members from Akhiok. Total involvement for 1999-2000 school year included ten students, four teachers, and over five community members.

During the 1999-2000 school year the following KYAW project activities took place:

- 1) On November 12, 1999 the KYAW orientation meeting took place in Kodiak. The main purpose of this meeting was to connect the District teachers with the scientists and their projects.
- 2) During the Kodiak Island Borough School District Rural School's Science Fair, Mitch Simeonoff and Roy Rastopsoff, the community members from Akhiok, performed seal bio sampling with seals that had been harvested for a community dinner. A number of students from throughout the region, as well as their teachers, were exposed to the data collection and purpose of this project.
- 3) Orders were taken to purchase equipment for the students to use. This was done through the recommendations given by the scientists, and coordinated by Brian Himelbloom and Bob Pfutzenreuter of University of Alaska-Fairbanks and the Fisheries Industrial Technology Center located in Kodiak.
- 4) On December 15, 1999 another meeting was held to further the development and organization of the KYAW.
- 5) On January 26, 2000 a student/teacher orientation meeting took place to train participations in the use of the equipment and process data collection and reporting.
- 6) Old Harbor School began to redesign their High School Science studies in order to integrate the KYAW into their general requirements. During 2000-2001 the teachers plan to focus more of their curriculum on marine studies school-wide.
- 7) Students began to collect data pertaining to ocean water temperature, presence of algae, general weather conditions, marine mammal sightings, and seal bio-sampling. Students also began research regarding PSP and its presence in the Kodiak waters.
- 8) In June of 2000 another training session took place that introduced participates to the collection of samples and use of the PSP testing kit created by Jellet Biotek.

In FY 01, we are proposing to continue the efforts began the first year of this program. Dr. Gerry Plumley will continue to work with the program to monitor algal blooms at the various sites around the island, assessing a connection with algal blooms and the prevalence of PSP in shellfish. The Alaska Native Harbor Seal Commission, through 01245, Harbor Seal Bio-sampling, will continue to support the program through bio-sample training in various communities throughout the region. The Fisheries Industrial Technology Center and National Oceanic and Atmospheric Administration will continue to collaborate with the project and students to collect oceanographic monitoring data. This information will be used to assist the Trustee Council with the Gulf Ecosystem Monitoring Plan. Data collected through this program will fill a hole of oceanographic information that will be necessary for the formation of a 100-

year data set. Continued work with 01482, Field-Testing of PSP Test Kits for Subsistence Use, will be achieved in FY01 regarding beach monitoring and chronic PSP site identification. Possible work with the National Marine Fisheries Service regarding the analysis of halibut stomach contents to determine the presence and abundance of sandlance and capelin is being developed as well.

In addition, students will select a local project to conduct. Connections to traditional knowledge, and integrating TEK data into a format traditionally used in western science will be developed and coordinated with the Alaska Knowledge Science Initiative, funded by the Alaska Federation of Natives. Teri Schneider, Cultural Coordinator for KIBSD, is very interested in pursuing this integration. It is an option to implement their own small-scale research. These projects would be presented at the March 2001 TEK Conference and CRRC Annual Gathering.

NEED FOR PROJECT

A. Statement of Problem

Kodiak Archipelago Youth Area Watch shares much of the same values and objectives as the original Youth Area Watch. The KYAW participants are committed to assisting in the restoration of the spill area through the collection and requisite samples and data for principal investigators of research projects. Research dollars are often scarce – the assistance of labor through this project to the four core projects is an invaluable asset to the overall restoration effort.

The public aspect of this is also invaluable to the Trustee Council. Youth involved in science, especially Alaska Natives, has been difficult to achieve in many cases. This project gives students hands-on experience and an avenue to achieve goals that may have once seemed impossible. The KYAW has received tremendous support throughout the spill area and beyond and the benefits of this project are felt in many different arenas. The Trustee Council would be supporting a win-win situation by funding this project again.

B. Rationale/Link to Restoration

The Kodiak Archipelago Youth Area Watch will work in primarily three areas. First, harbor seals disastrously affected by the oil spill are being studied under 00245. KYAW participants would assist in this recovery effort of the Alaska Native Harbor Seal Commission and Trustee Council. Secondly, the enhancement of safe shellfish to eat would benefit the use of subsistence greatly; consequently, assisting in the recovery of the subsistence service by providing a replacement subsistence resource for harvesters. The field test and algae project both will assist in making shellfish safer for everyone. Finally, the Fisheries Industrial Technology Center and the National Oceanic and Atmospheric Administration have ongoing oceanographic monitoring. The eagerness of these organizations has been confirmed through their commitment to developing the current monitoring data into a long-term KYAW project.

The public/youth involvement through this project in the restoration process will assist the Trustee Council in their mission to inform and involve the public regarding the restoration program.

C. Location

Kodiak Archipelago Youth Area Watch will take place in the Kodiak Island communities of Akhiok, Old Harbor, Larsen Bay, Port Lions, Ouzinkie, Chiniak, and Kodiak. Site teachers will be continually trained through the school district and Teri Schneider will serve as the coordinator for the program for the school district. Sarah Ward and The CRRC Office Assistant (CRRC is currently hiring a new Office Assistant) will work with the school district and provide outreach to tribal councils throughout Kodiak Island, utilizing the Community Involvement and GEM Planning Project. Additionally, traditional ecological knowledge will be integrated into the program with the assistance of TEK Specialist, Dr. Henry Huntington.

COMMUNITY INVOLVEMENT AND TRADITIONAL ECOLOGICAL KNOWLEDGE

In addition to assisting in research, community involvement and the utilization of traditional ecological knowledge are at the heart of this program. Tribal councils, schools, communities, regional organizations, and researchers will all be collaborating to ensure that this project is a success. CRRC will work closely to ensure that each of the tribal councils where there are KYAW participants will have a voice in the research and curriculum of the program. Traditional ecological knowledge will be integrated into the projects that student's design and collaborating researchers will be encouraged to utilize TEK on their particular projects.

PROJECT DESIGN

A. Objectives

Selected students in the identified communities will participate in the project to accomplish the following objectives:

1. Research project personnel interact with students, communities, and staff.
2. Identify all research and data collection activities.
3. Orient researchers on working with students.
4. Conduct research with the four projects.
5. Update MOA between CRRC and KIBSD.
6. Purchase additional monitoring equipment for expansion of area-wide monitoring.
7. Complete site teacher training and training with the Kodiak College regarding science monitoring and research.
8. Conduct school orientations for student in KYAW.
9. Set up Kodiak Archipelago Youth Area Watch web site to store data, stay informed regarding all activities, and coordinate efforts of staff, students, researchers, and community members.
10. Involve students in the annual Science Camp to be held in June of 2001. This camp will allow students to present their work to the other participants, educating and enlarging the

support and momentum of the project. The Science Camp will be an opportunity for youth to recap that activities of the year and plan for the coming year.

11. Complete student project training with tribal council and site teacher.

12. Facilitate project follow-up training with site teachers.

METHODS

CRRC will update the current sub-contract with the Kodiak Island Borough School District. Agreements will be re-issued with tribal councils throughout the island to ensure their meaningful involvement in the project. Researchers involved will sign contracts to ensure their follow-through of involving the youth in their projects.

Teri Schneider, Cultural Coordinator with the Kodiak Island Borough School District, and the new CRRC Office Assistant, will work cooperatively to plan the involvement and logistics of youth and researchers fieldwork. Additionally, training will take place with all involved parties to ensure that this project will work for everyone.

We have selected methods to choose students based on academic standing, personal interest, and potential for improvement. Approximately 49 students will be participating in the second year of the project. While distribution varies according to interest and ability of students that apply, it is expected that the distribution will be as follows: 15 from Old Harbor, 13 from Ouzinkie, 2 from Larsen Bay and Karluk, 11 from Port Lions, 2 from Chiniak, 2 from Akhiok, and 4 from Kodiak. 16 of the 49 students will be designated as interns. These students will be the ones to travel to special events and will be the 'leaders' of the projects. The rest of the students will participate to a lesser degree but will be actively involved. The communities with a large number of students participating have chosen to integrate the KYAW Project into their science curriculum, allowing all the high school and/or middle schools to participate in either all, or part of the projects.

Prior to the school year in the fall, participating KYAW teachers will congregate in Kodiak to conduct a two-day training on what the program will encompass. We will ask that researchers attend as well. Since funding will not yet be available, CRRC will front the cost of this training. Protocols from principal investigators and program details will be discussed. In addition to the site teachers, we will invite tribal council representatives.

All of the coordinating projects, field test PSP kit, algae testing, and biosampling, and oceanographic monitoring will take place geographically close to the participant's communities. It will be the responsibility of the site teacher and participants to determine field schedules. Harbor seal bio-sampling will require two training sessions and coordination with local seal harvesters. The oceanographic monitoring project will require coordinated efforts on contracted vessels and such. This will be negotiated between the Fisheries Industrial Technology Center and CRRC. Schedules will be determined when appropriate. Quarterly, students and support staff will congregate in Kodiak for a day to discuss progress and evaluate the program. Written reports describing the students' activities and the progress of the program will be submitted to EVOS quarterly. Training will be on going and project objectives will be met.

Ongoing projects will include:

- 1) PSP Field Testing, 01482 – Jellet Biotek – Dr. Jellet and Dr. Roberts are selecting sites throughout the spill area to field test their PSP testing kit to be used in place of the existing mouse bioassay. Students in the program will continue to do beach monitoring to determine patterns, high-risk beaches, and precautions to consider when harvesting shellfish. Also, information collected may be used to develop local aquaculture programs that would supply jobs and boost the economy in the villages.
- 2) Harbor Seal Bio-sampling, 01245 – Alaska Native Harbor Seal Commission – KYAW will work with local harvesters involved in the program to bio-sample harbor seals caught for subsistence purposes. Mitch Simeonoff, Akhiok, will work with CRRC and the school district to train and involve students.
- 3) Algal PSP Testing – Dr. Gerry Plumley – University of Alaska Fairbanks – Dr. Plumley will train students in how to test algae in their area for algal PSP infection. This project will provide data to Dr. Plumley regarding where PSP originates.
- 4) Fisheries Technical Center and National Oceanographic and Atmospheric Administration - This will involve utilizing the monitoring kits we have acquired in establishing and continuing a long-term oceanographic monitoring program. Indicators to be monitored will include ocean temperature, salinity, tides, and other information as it pertains to the project.

In addition to these four core projects, students will work with their tribal council or local site teacher to identify a local research project to implement that is achievable. We will encourage the tribal councils to identify an area of TEK that may be of interest and integrate that with western science methods. TEK Specialist Henry Huntington will be called upon to assist in this effort.

The participation of the students in the annual Science Camp will be an additional component of this year's program. The annual Science Camp is an opportunity for students from across the Island to learn about science basics, how traditional ways of knowing is incorporated into western science, natural science phenomena's around the island, and present information on particular projects they have been involved in the previous year. In kind funds of \$75,000 will be put toward this camp from the Alaska Federation of Natives, as well as \$20,000 from the Kodiak Area Native Association. We are asking for \$15,000 from the Trustee Council for this portion of the project.

The development of a web site that will be integrated into the Kodiak Island Borough School District will be developed as well. The Kodiak School District's Information Technology Department will work with project staff to construct the site. The formation of this web site is seen as a necessary step to bring the program to a new level of communication, coordination, and information transfer. Intended uses will be to post oceanographic data, PSP and algae data and results, stomach content information, and harbor seal bio-sample information. A web site is necessary to keep the youth interested in the nuts and bolts of the program and is seen by all involved as a must have step.

School credit for the youth involvement in this project will be strongly encouraged. We anticipate allowing credit to those who participate for the whole length of the project. This will encourage more participation and give credibility to the project among site teachers and students

who are thinking about applying to the project. This project is popular and receives island-wide attention for the tremendous efforts it has accomplished.

COOPERATING AGENCIES

The Chugach Regional Resources Commission will serve as the administering agency for this project and work closely with the Kodiak Island Borough School District to implement the project. CRRC has a positive history with the Alaska Department of Fish and Game and expects to continue that partnership through this project. We will update our current contract with the school district to reflect the new changes to the program and work to coordinate and collaborate on the successful implementation of the project.

Additionally, CRRC has a history working with tribal councils on Kodiak Island. We implemented and completed the Subsistence Service Assessment with tribal councils on Kodiak Island, hiring many employees directly. CRRC has a strong partnership with the Community Involvement and GEM Planning Project and has demonstrated a commitment to involving all Alaska Native Tribes and organizations in the restoration process.

Partnerships with the Fisheries Industrial Technology Center and the National Oceanographic and Atmospheric Administration will continue to perpetuate the ocean monitoring component of the project.

SCHEDULE

A. Measurable Project Tasks for FY 01

July 1, 2000 – August 1, 2000	Confirm research and data collection activities
August 15-16, 2000	Site teacher, tribal, and researcher orientation
August 17-18, 2000	Site teacher training with Kodiak College
September 1 – 18, 2000	School site orientations
September 15 – 30, 2000	Students selected
October 15 – 31, 2000	Student orientation and training
October 1 – November 15, 2000	Web site development
November 1, 2000 – July 30, 2001	Students participate in research activities
March 1, 2001	Site teachers send data to project PI
March 1 – 15, 2001	Site teacher follow-up training
June 2001	Project Coordinator sends data to PI
June 2001	Students participate in Science Camp
June 2001	Students complete FY 01 projects

On-going activities

October 2000 to July 2001	Students collect shellfish samples for field test
October 2000 to July 2001	Students analyze algae
October 2000 to July 2001	Students conduct harbor seal bio-samples
October 2000 to July 2001	Students conduct their local research project

October 2000 to July 2001 PI interact and share information with students

B. Project Milestones and Endpoints

October 17, 2000	Students selected
October 30, 2000	Protocol training complete
November 1, 2000	Students conduct project activities
March 1, 2001	Data/samples to PI
June 1, 2001	Data/samples to PI and reports complete

C. Completion Date

Objective identified in the project design will serve as guidelines for community involvement within the civil settlement throughout the life of the restoration effort. It is expected that the KYAW will be completed upon termination of the restoration and monitoring effort.

PUBLICATIONS AND REPORTS

Project reports that will include a description of student activities and the progress of the program will be submitted to EVOS quarterly.

PROFESSIONAL CONFERENCES

Youth will participate in the Traditional Knowledge Conference and CRRC Annual Gathering in March 2001.

NORMAL AGENCY MANAGEMENT

Not applicable.

COORDINATION AND INTEGRATION OF RESTORATION EFFORT

This project will work closely with the Community Involvement and GEM Planning Project (01052) and the Harbor Seal Biosampling Project (01245). If funded, this project will work closely with PSP Field Testing (01482).

PROPOSED PRINCIPAL INVESTIGATOR

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PRINCIPAL INVESTIGATOR

Patty Brown-Schwalenberg is the Executive Director of Chugach Regional Resources Commission. She maintains all management and administrative authority over CRRC programs and projects. She has extensive experience in project administration, tribal relations, and managing budgets. Ms. Schwalenberg will be responsible for all expenditures, contracts, and project management.

OTHER KEY PERSONNEL

CRRC is in the process of hiring a new Office Assistant.

Teri Schneider is the Cultural Coordinator with the Kodiak Island Borough School District.

Sarah Ward is the Community Development Director for the Chugach Regional Resources Commission.

Ms. Schneider and Ms. Ward have experience in outreach, education, and project coordination. This will be a job requirement of the new Office Assistant.

2001 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2000- September 30, 2001

Budget Category:	Authorized FY 2000	Proposed FY 2001						
Personnel		\$0.0						
Travel		\$0.0						
Contractual		\$57.8						
Commodities		\$0.0						
Equipment		\$0.0						
Subtotal	\$0.0	\$57.8	LONG RANGE FUNDING REQUIREMENTS					
General Administration		\$4.0				Estimated FY 2002		
Project Total	\$0.0	\$61.8				\$106.1		
Full-time Equivalents (FTE)		0.0						
Dollar amounts are shown in thousands of dollars.								
Other Resources								
<p>Comments:</p> <p>Please see attached sheet for in-kind contributions to the Kodiak Youth Area Watch Project (01610).</p>								

FY01

Prepared: 10-27-00

Project Number: 01610
 Project Title: Kodiak Archipelago Youth Area Watch
 Agency: Alaska Department of Fish and Game

FORM 3A
 TRUSTEE
 AGENCY
 SUMMARY

2001 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2000- September 30, 2001

Budget Category:	Authorized FY 2000	Proposed FY 2001						
Personnel		\$0.0						
Travel		\$13.3						
Contractual		\$38.7						
Commodities		\$0.0						
Equipment		\$0.0						
Subtotal	\$0.0	\$52.0	LONG RANGE FUNDING REQUIREMENTS					
Indirect		\$5.8				Estimated FY 2002		
Project Total	\$0.0	\$57.8				\$106.1		
Full-time Equivalents (FTE)		0.0						
Dollar amounts are shown in thousands of dollars.								
Other Resources								
Comments:								

FY01

Prepared: 10-27-00

Project Number: 01610
 Project Title: Kodiak Archipelago Youth Area Watch
 Name: Chugach Regional Resources Commission

FORM 4A
 Non-Trustee
 SUMMARY

2001 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2000- September 30, 2001

Personnel Costs:			Months	Monthly	Overtime	Proposed
Name	Position Description		Budgeted	Costs		FY 2000
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
Subtotal			0.0	0.0	0.0	
Personnel Total						\$0.0
Travel Costs:		Ticket	Round	Total	Daily	Proposed
Description		Price	Trips	Days	Per Diem	FY 2000
Village - Kodiak - Anchorage (TEK Conference) 6 communities		0.5	16	45	0.0	8.0
Kodiak - Akhiok		0.1	3	3	0.1	0.6
Kodiak - Old Harbor		0.1	3	3	0.1	0.6
Kodiak - Ouzinkie		0.1	3	3	0.1	0.6
Kodiak - Larsen Bay		0.1	3	3	0.1	0.6
Kodiak - Port Lions		0.1	3	3	0.1	0.6
Kodiak - Karluk		0.1	3	3	0.1	0.6
Science Camp Trip		0.3	3	8	0.1	1.7
						0.0
						0.0
						0.0
						0.0
Travel Total						\$13.3

FY01

Prepared: 10-27-00

Project Number: 01610
 Project Title: Kodiak Archipelago Youth Area Watch
 Name: Chugach Regional Resources Commission

FORM 4B
 Personnel
 & Travel
 DETAIL

2001 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2000- September 30, 2001

Contractual Costs:		Proposed
Description		FY 2000
Contract with Kodiak Island Borough School District to provide services below		38.7
1 coordinator staff - Teri Schneider at \$23.0		
equipment at \$4.6 (the KIBSD is contributing \$0.4 on top of the \$4.6)		
* Portable computer equipment \$3.0		
Biosampling kit for each site (\$.15 X 7) \$1.1		
Misc. (replacing consumable supplies, i.e. ph strips, etc.) \$0.4		
school district technology support (web site) at \$4.6 (the KIBSD is contributing \$5.4 on top of the \$4.6)		
** contract with vessel or project participation costs (i.e. training or equipment) at \$3.5		
teacher training at Kodiak College at \$3.0 (10 X \$0.4 with the KIBSD contributing \$1.0 to this cost)		
* To purchase an IBM compatible computer, which will be used by the KYAW Coordinator, teachers, and students for presentations, etc.		
** To allow for fuel/time compensation, and/or chartering for community members who take students in their own boats.		
Contractual Total		\$38.7
Commodities Costs:		Proposed
Description		FY 2000
Commodities Total		\$0.0

FY01

Prepared: 10-27-00

Project Number: 01610
 Project Title: Kodiak Archipelago Youth Area Watch
 Name: Chugach Regional Resources Commission

FORM 4B
 Contractual &
 Commodities
 DETAIL

