

Satellite map provides wild life habitat information

Proper habitat is essential for abandoned wildlife populations. Sufficient cover and forage areas and the manner these areas are spatially arranged encourage the growth of both deer and elk herds.

Optimal habitat for big game consists of both shelter areas and

food producing land. In times of severe weather occurrences such as very hot or very cold periods, big game animals seek out sites which produce the most favorable conditions for them. These sites for deer and elk, are, typically, thick forested stands with a dense canopy of

overhead branches.

The branches produce an umbrella-like effect, trapping a pocket of air between the ground and the tree canopy. This pocket of air is often 10 to 20 degrees cooler or warmer than nearby, sites which are not densely forested. Use of these sites allows animals to conserve energy and, thus survive and prosper on the reservation.

Knowledge regarding the amount of available habitat on the Warm Springs reservation is necessary for efficient management of its big game populations. Such management was difficult prior to July 1985. Natural Resources personnel had a general idea of the vegetation and habitat conditions on various parts of the reservation but exact conditions over the entire area remained unknown. Certain areas had been pinpointed as harboring big game animals and were monitored for use but the entire picture was not easily analyzed.

In July a scene of the reservation was taken from NASA's Landsat-1 satellite orbiting 438 miles above the earth. Using a multispectral scanner the earth's surface was surveyed and data collected from four regions of the electromagnetic spectrum. The resulting photograph indicate different vegetation areas by color.

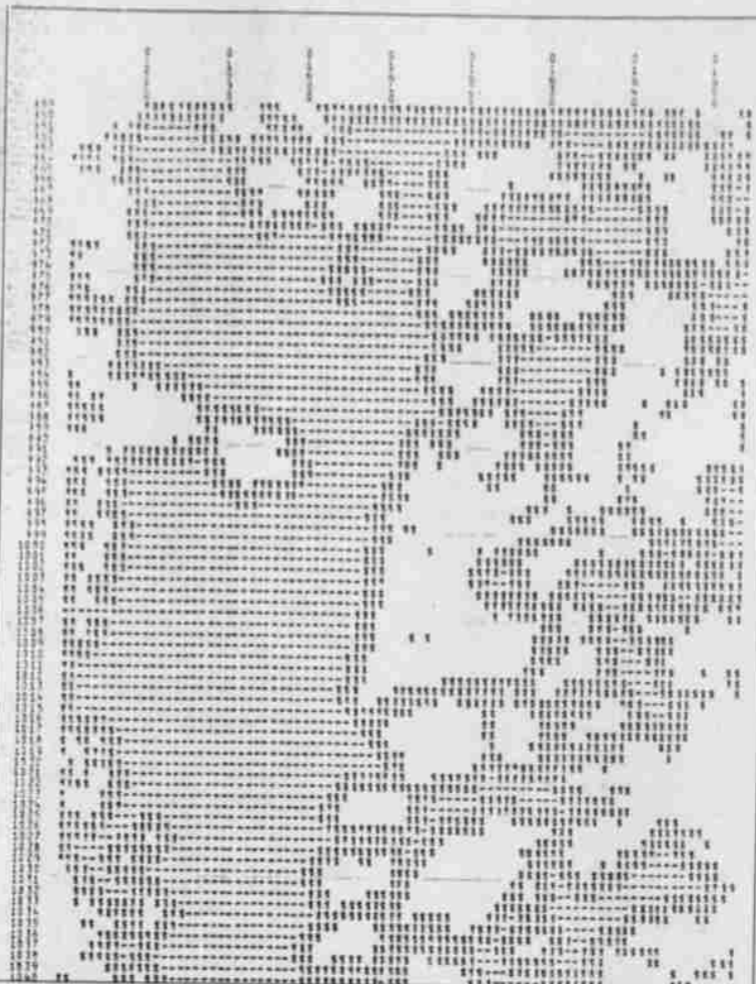
The photograph of the reservation was then scanned by computer at the Environmental Remote Sensing Applications Laboratory located at Oregon State University. Each different vegetation area was assigned a symbol which represents 1.19 acres of land and a printout of the symbolized map was produced.

Wildlife managers can now view the computerized map to determine where wildlife would most

likely prosper and activities of big game animals can more accurately be determined.

This information will provide Warm Springs wildlife managers with a scientific tool for evaluating certain areas, explains tribal biologist, Terry Luther. Managers will now be able to make detailed recommendations regarding timber sales

and forest operations taking into account the affect on wildlife populations. These areas can be evaluated to determine what impact a forest operation will have on wildlife habitat—whether a plan will have a negative, positive or stable impact and the effect of the operation on the watershed area as a whole.



Computer printout of Landsat map indicates various vegetative areas by use of symbols.



Natural Resources/Forestry technician trainee Marissa Stradley works on satellite map of the Warm Springs reservation. The map helps determine predominant vegetation in certain areas.

Film to be shown

The Warm Springs Community Counseling Center is sponsoring two separate showings of "The Honour of All," a two-part series that tells of the dynamic and inspiring story of Alkali Lake where all residents stopped drinking.

The first showing was January 14. The second showing will be Monday, January 26, at 1 and 6:30 p.m.

For more information contact Charlotte Herkshan or Anita Davis at 553-1161, ext. 205.

Move trees gradually

That living Christmas tree you moved indoors gradually before decorating must be moved back outside to its permanent home in the home landscape the same way. Any kind of containerized tree used as a living Christmas tree needs your help getting ready for the move back outside.

Trees grown in containers have well-developed root systems and are harder than those simply dug and transplanted to large pots.

To successfully move the tree outside, reverse the two or three stage relocation procedure you used to bring the tree in. Initially you wanted to help the tree adjust to warmer inside temperatures. Now, of course, you want to adjust the tree to cooler outside temperatures.

First, place the tree in an unheated room in the house for a few days. Then, if possible, place the tree in an unheated garage for 3-4 days.

As you move the tree out gradually don't forget to test the container soil surface daily and add water when the soil feels dry.

The biggest problem people have with getting living Christmas trees to survive is failure to water the tree enough. As a result it dries out and the roots are damaged.

Warm Springs Elementary News

by Jane Westergaard-Nimock

Warm Springs Elementary budget development for 1987-88

Like every other employee in this school district, the staff of Warm Springs Elementary is currently in the process of developing a budget for our school for the 1987-88 school year. Although this is a process that continues throughout the school year, during the months of December and January, this staff works to develop a written budget proposal to submit to the Budget Committee at their first public hearing on February 10. It is during these hearings that the Budget committee and the public can learn the details of the proposed budget from each school and support services.

Many considerations go into the development of our building budget. Our proposal will represent our best estimate of the goods and services that will be required to meet the wide range of student needs during the next school year. Some of these considerations are: Needed equipment, supplies, and repairs to insure the safety of each student are a top priority for our expenditures. Our Safety and Playground committee is currently making recommendations for improving the quality of our playground equipment and the surface beneath the equipment.

Next in priority are textbooks, supplies, and equipment needed to conduct the daily classes. By the end of this school year, the district reading committee will be making recommendations for new textbooks for our reading program, making up our largest textbook expense for next year. In the state of Oregon, textbooks are newly selected every six years in each subject area. Another high priority consideration is the make-up of the staff. From our projected enrollments for each year, we reevaluate our staff make-up to determine if we will have the necessary personnel to continue to serve the students effectively and efficiently. Our analysis may result in either an increase or a reduction in staff, according to the educational needs of the children. Careful thought is given to maintenance of the school building. Students at Warm Springs Elementary have an impressive record for taking care of their school. In return, we do our best to provide the needed supplies, equipment, and maintenance which will keep our school building a comfortable environment and a place in which the children and community can feel pride.

Many discussions and conferences are held between the staff and myself in the development of the budget. Following these discussions, I go over all budget requests in detail and make an initial determination of what items are a priority for the next year and should be included in the proposal or what items should be deleted or submitted in following years in order to

allow us to stay within a reasonable percentage of the previous year's budget. Next I meet with the superintendent and assistant superintendent to analyze in further detail our budget proposal. Their input assists me in making decisions about what to include or exclude from the budget from the perspective of the total district. For example, if one building had a need that was of a higher priority than some of our needs, I may be able to make an increase in their proposal to accommodate their need. Additional discussions are held between the total administrative team about still further analysis and adjustments for the total budget school.

Finally, the total district budget is presented to the District Budget Committee, as I mentioned above. At these meetings, each building administrator gives a detailed explanation of their building's proposal. The public is welcome and encouraged to attend any or all of these meetings. After carefully reviewing all of the proposals, budget committee members make their recommendations for further adjustments to the budget before adopting it, or adopting it as submitted. A levy amount is then determined to be voted on by the public.

As you can see, much time and careful thought goes into each proposal before the public is presented with a school budget for the coming year. I hope you will be able to attend some of the budget meetings in February and March. It is at these meetings that you will have an opportunity to assist in prioritizing needs for our students. I look forward to seeing you there. In the meantime, if you should have any questions about the process or our specific proposal do not hesitate to give me a call or stop by the school.

November outstanding citizens

Outstanding citizens for the month of November are: kindergarten—Molly Fuentes, Paulette Henry, Trevor Hurtado, Harlan Waheneka; first grade—Jessie Adams, Brian Renfro, Charlie Hellon; Second grade—Jordan Patt, Walter Waheneka, Yvette Bruno; third grade—James Sam, Jamie Winsor; fourth grade—Reuben Henry, Lacey Frank, Heather Steele; fifth grade—Michael Leecy, Ellis Langley.

December outstanding citizens

At the December awards assembly, Verbena Greene presented these awards to the following students: kindergarten—Lynn Knight, Nikiya Courtney, Emily Mitchell, Amanda Tom; first grade—Taralee Suppah, Fred Sanders, Michael Speakthunder; second grade—Josephine Alonso, Rose Brown, Ramona; third grade—Kelly Wewa, Eldred Smith; fourth grade—Jaclyn Tulee, Maria Colazo, Little Fawn Suppah; fifth grade—Jennifer Tufti, Angie Wolfe.

Outstanding math students

Denver Sensibaugh proudly awarded Aldo Antunez, third grade,

the November Outstanding Math award. Maria Yahtin, fifth grade, won the December award for outstanding work in mathematics.

W.S. Elementary goals for 1986-87

As you may remember from my last newsletter, one of our goals for this year is to develop classroom activities for teaching Indian culture throughout the curriculum—grades K-5. During the month of December, the Indian Cultural Awareness committee developed another lesson for our Indian Culture manual which teaches the children about the tradition of selecting a Miss Warm Springs each year and the role that she plays in the community. We are very thankful to the Miss Warm Springs Committee for so generously loaning us the regalia of Miss Warm Springs to display at the school for the children.

During January, the committee will be developing lessons for the children about legends. They have been most pleased to be able to add listening to the legends that are broadcast over KWSO to the activities suggested in the manual. When you are in the school, remember to stop by our display case to see the display about legends that has been put up for the children.

November outstanding class of the month

Our November Outstanding class of the Month was awarded to Ms. Laurie Sensibaugh's third grade class. This class was recognized for their ability to work cooperatively to help each other. Ms. Sensibaugh's class is working with a technique called Student Team Learning. In this program, they learn to work with each other and to depend on each other for help. As they are working with each other and to depend on each other for help. As they are working through a project, they must decide how they can work together to complete the project. When a problem develops, they must first try to work out a problem within the group, before they ask the teacher for help. In order to ask for assistance, they must have found that no one in the group was able to solve the problem. As they go through the problem solving strategies, they learn to communicate better with each other.

Ms. Sensibaugh uses team tournaments in her math class. Team tournaments are one of the skills used in student team learning. These tournaments are challenges between the different groups during a certain activity. As they work through an activity, their group can earn points for each part completed correctly. The team with the greater number of points at the end of the period, wins the tournament.

During one math period, they were given five different activities to work through. These activities worked with visual and special awareness, weighing, shape puzzles and quinesaire rods. The class was very enthusiastic about getting underway with the variety of activ-

ities. When they completed an activity, they would call Ms. Sensibaugh to verify the completed work. The work was then recorded and the group was given the next activity. They tried to work through as many activities as they could during given time. Each group worked eagerly and cooperatively through each of the given activities. They are truly becoming whizzes at using their problem solving strategies. In watching them, one would think that they have been using this program for some time. But this was only the second time in which the class had done team tournaments. They knew exactly what they needed to do and went right to work on completing the given task.

December outstanding class of the month

Donna Roger's first grade class was selected for this award for the month of December. Watch for an article about this class in our next newsletter.

Birthday lunches

A reminder—On the last Wednesday of the month we plan a celebration in the cafeteria for those students who have birthdays during that month. The "birthday kids" eat together and share a wonderful cake baked by our head cook, Donna Spencer. You are invited to join your child for their birthday celebration. (July and August birthdays are celebrated on the second Wednesdays of April and May, respectively.)

All you need to do is stop by the office to purchase a lunch ticket before you to the cafeteria. Adult lunches are \$1.60. When you arrive at the cafeteria just fall in line behind the students. When you reach the front of the line, give your ticket to the cook and she will then serve you lunch. Then bring your tray to the birthday table and we will make a place for you.

Second Quarter ends

On January 23rd the second quarter of this school year will end. Students will be dismissed early that day to allow their teachers additional time to complete report cards. The cards will be sent home with the student on the following Friday, 1/30/87. Please do not hesitate to stop by before or after school, or call to make an appointment for another time, to talk with your child's teacher about your child's progress. Although we do not have regularly scheduled parent guardian conferences at the end of this reporting period, you are always welcome and encouraged to meet with the teacher several times during the year to learn more about your child's program and to keep updated on his/her progress.

Your comments welcome

I have always appreciated the feedback we have received from the families of our students and

other community members. If you have any comments or questions about our school program, please take a moment to write them to me. Then just mail them or drop them by the school office. I will read each and every comment and do my best to respond to your suggestions, concerns, questions, or compliments.

School lunches for January

January 19—pizza, relish tray, fruit salad and milk.
January 20—weiner wraps, hash browns, green beans, fruit and milk.
January 21—hamburger deluxe, lettuce, tomato, pickle, oven fries, cheese stix, jello with topping and milk.
January 22—beef noodle soup, grilled cheese on a bun, bar cookies and milk.
January 23—corn dogs, potato rounds, frozen peas, apple wedges and milk.
January 26—tacos with lettuce and tomato, herb rice, mixed fruit and milk.
January 27—chicken nuggets with dip, coleslaw, biscuits-butter, apples and milk.
January 28—hamburger deluxe, lettuce, tomato, pickle, hash browns, green beans, cookies and milk.
January 29—nachos and cheese, sauce-bean dip, stuffed celery, wheat rolls-butter, fruit and milk.
January 30—fishwiches with tartar sauce, oven fries, season peas, fruit crisp and milk.



Three-year-old Head Start student Joseph Aguilar dawns his jacket as he readies himself for a break from the classroom. Head Start has 120 students enrolled.