

Crosscurrents

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The Corps' Role in North Dakota

Approximately one-half of North Dakota is in the St. Paul District. It has two major river basins, the Souris River and the Red River of the North. These two basins are very unique, as they both flow to the north, unlike the Mississippi and Missouri rivers.

With these rivers flowing from one country to another, the district must be both a federal engineer and an international engineer. In doing so, the Corps assures that proper attention is given to involve the international interests and to resolve identified concerns.

The district engineer is a member of two boards formed by the U.S. and Canada to study and monitor waste related issues that concern the two countries. The International Souris Board of Control, monitors the allocation of water resources on the Souris River between Saskatchewan, Manitoba and North Dakota. The International Souris-Red Rivers Engineering Dakota. Some of the studies and proj- weather would occur, the focus of this Board investigates the engineering aspects that are related to international water resources, on the Souris, Red and the Rainy rivers. These two boards report their findings to the studies. U.S.-Canada International Joint Commission for decision making.

Flooding is a significant problem in North Dakota, especially in the Rainy River basin. Spring snow melt, often aggravated by rains, can spread for miles across the flat landscape. In this basin, over two million acres of highly productive farmland and over 50 communities are subject to flooding.

Flooding is also a problem in the Souris River basin, where the 1969 flood required the evacuation of about 12,000 people and flooded 3,000

The past history of floods demonstrates that the Corps' role in flood



Flooding on the Red River of the North Photo by: Lyle Nicklay

ects designed to help these problems region will shift to water supply and projects and the Red and Souris river on water conservation. Water storage

in the Souris and Red River basins. Water availability is influenced by cliand wet periods have occurred, em- periods. phasizing the need for adequate water lem for basin residents. (See Devils Fight article). Lake article.)

If in the future, the popular "Greencontrol is vital to the people of North house Effect," with its warmer, drier

include the Shevenne and Souris drought control measures. During the rivers, Lake Darling and Park River past droughts, primary emphasis was projects include Lake Traverse on the Ensuring adequate water supplies is Bois de Sioux River, Baldhill Dam on another problem for the people living the Sheyenne River and Homme Dam on Park River. Little emphasis was put on recreation flood control, and fish matic conditions. Since 1900, both dry and wildlife values during the drought

With flooding occuring so fresupplies and flood protection. If the quently in North Dakota, the Corps present wet cycle continues, flood must continually prepare itself to redamage reduction measures will con- spond to any flooding needs. These tinue to be the focus of water manag- preparations include stockpiling flood ers. In addition to seasonal flooding fight supplies and equipment, emeralong rivers, rising lake levels are an- gency levee reviews, district training other significant water resouce prob- and regional exercises. (See Flood

(continued on page 4)

Commander's View

by Col. Ed Rapp District Engineer

look at some of the district's key activ- prairie provinces of Canada. ities in the Souris and Red River valleys. This part of the St. Paul District Paul District is rooted in the state's offers a number of challenges to all of need for water resource development

gion is sufficiently different from that of the lake and riverine regions of Minnesota and Wisconsin. Because of this difference, we have to shift gears a lit-Wisconsin project to one in North Da-tion. kota. Another feature of that region north, rather than to the south.

projects. Some of the worst floods in First of all, the geography of that re- the district have occurred over the years along the Red and Souris rivers. Some of the richest farmland and farmsteads in the nation and a number of urban areas in North Dakota do not tle when we move from a Minnesota or have an adequate level of flood protec-

While state officials recognize their which adds to the challenge is the di-vulnerability to the ravages of floods, rection the water flows. All of the they also recognize their dependence rivers in the St. Paul District's portion on water and the likelihood that of North Dakota eventually drain to the Mother Nature could abruptly change sometime in the future, thrusting the cycles. The valleys of this region pro-With the Souris and Red rivers flow- area into another deep and persistent vide unique engineering challenges. As ing north into Canada, the district has a drought. North Dakota's goal, and thus you read the articles in this issue, I significant international role. The our goal, is to prepare for every even-hope that you will understand how we quantity and quality of water flowing in tuality. While state and local interests intend to meet them.

This issue of Crosscurrents takes a these rivers is vital to the eastern work with us on flood control projects along the Souris, Sheyenne and Red The real challenge for us in the St. rivers, state officials also continue to move the Garrison Diversion project forward. The diversion project would help drought-proof the northeast part of the state. Many of our projects can also help drought-proof this region. The Shevenne River project, Baldhill Dam, is a prime example.

> The challenge for us, then, is to be "complete" federal water engineers, ready to assist with the immediate problems of flooding while considering the possibility of a drought in the longer term. North Dakota and northwestern Minnesota can be ravaged by either extreme of Mother Nature's

Toastmasters

by John Blackstone

Diversity is one of the things which makes the Olympics interesting. This is also one of the secrets of Toastmasters. A diverse group of people gathering together to learn from each other. Come join Toastmasters every Thursday noon in the sixth floor PEDC rooms, and be a part of this diverse group. If you have any questions, please contact Joel Face at extension 5940.

Letter of Appreciation

We came through Lock & Dam #3 on August 4, and it was so helpful to have someone above to hand the ropes to pleasure craft. There are so many pleasure boats on the weekends going through the lock and dams that it can be difficult to grab on to the ropes. Thanks again for having people to help us lock through. Many times there is no one to help because they are "short"handed.

Gene & Tena Richardson Waterloo, Iowa



The District's mobile exhibit Photo by: Lyle Nicklay

Who's Who

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District Engineer Col. Edward Rapp Chief, Public Affairs ... Kennon Gardner Editor Pamela McFaden



Do you recognize these individuals who worked in the district's Emergency Operations Center during the 1969 flood? Answers on page 8.

Centennial Celebrated



47 Years of Dam Tending Photo by: Lyle Nicklay

Three dam tenders with a total of gama from 1937 until 1958 when gama Dam had a chance to remin- (center). Anderson (left) worked at Poke- took over from Henry in 1973.

Sunny weather greeted campers, local residents, members of the Leech problems the Indians had with the Lake Indian Reservation, retirees and Corps during the early years. Mr. staff from the U.S. Army Corps of Engi- White then went on to say, "many of neers, to celebrate the Headwaters these problems have been resolved Centennials. The 100-year birthday of and the Ojibway Indians look forward Winnibigoshish, Leech and Pokegama to working with the Corps for another dams was celebrated on July 21-22.



Wes and Josephine Walters tour the District's mobile exhibit Photo by: Rosemarie Braatz

A celebration program with speakers was held at each site. The speakers were Jim Ruyak, Gen Hilmes, Col. Rapp, Hartley White, Chairperson of the Leech Lake Indian Reservation, and John Craig, Mayor of Grand Rapids. The speeches recalled the history of each dam and the importance of maintaining them for future use.

47 years of experience at Poke- he was replaced by Henry Sharp The current isce during the Headwaters Cen-tender" at Pokegama is Park Mantennial celebration in July. Carl ager Clarence Bernardson, who

> Hartley White, spoke about the 100-years."

> There were many local activities that took place, for instance a pow wow was held in celebration of the dams, Bill Bobolink, from the Leech Lake Indian Reservation, officiated a pipe ceremony, and a pig roast was held.

> Permanent exhibits were placed at each site, displaying historical photo's and the history of the dam. Also, a mobile exhibit, from the St. Paul District. traveled to each site. The mobile exhibit depicts the development of the headwaters, and displays the major functions of the Corps of Engineers.

> The celebrations gave retirees a chance to reminisce about the past when they were dam tenders. Many local people remembered the Headwaters area in earlier days. Wes Walters, a retiree, stated, "In my 36 years with the Corps, I carried out many duties, which are no longer included in the Corps' mission today, such as inspection of bridges and supervision of bridge toll charges."

Flood Fighting in North Dakota

Training is an essential element in keeping district personnel ready to respond during a flood emergency. To provide this training, emergency management has scheduled courses in flood fight techniques, organization, contracting and communications. Approximately 200 employees will be trained at the sessions in North Da-

A flood fight exercise is scheduled for the Red River basin, and area engineers and sub-area engineers for the Souris and Red River basins will be invited to attend and participate. Various "hands on" demonstrations will be conducted to give a feel for flood fighting. These exercises bring state, county, and local officials together with district flood fighters to learn flood fight techniques and "to get to know one another.'

Jim Ruyak and William Spychalla, area engineers for the Souris and Red rivers, conduct biennial inspections of emergency levees that were constructed by the Corps during past emergency operations. Consequently, the inspections are important to help local communities assess the strengths and weaknesses of the temporary levees. The district is proposing to conduct a Risk Analysis Program for temporary levees and other levees. If funded, the program will give a better idea of the risks associated with each levee, i.e., breaching, sloughing.



Excess Is the First Source of Supply Call Paul French, 7611

North Dakota

(continued from page 1)

Flood control projects also provide for outdoor recreation and other water resources. The Corps has made available acres of land and waters for the preservation and enhancement of fish and wildlife resources, and public recreation. For example, Lake Ashtabula created by Baldhill Dam has eight Corps recreation areas. In addition, the U.S. Fish and Wildlife Service uses the land below the dam for fish hatchery ponds.

The Corps also is involved in urban studies along the river. An urban study is being conducted by the St. Paul District for Grand Forks and Fargo, North Dakota. These studies will address long term solutions to the problems of floodplain management, wastewater treatment and water supply.



Tom Raster became the fourmillionth blood donor, on August 9, in St. Paul.

Photo by: Pamela McFaden

The U.S. Meets With Netherlands

River Resource Coordinator, Dan Krumholz, will be representing the St. Paul District on September 12, 1984, at the Third U.S.-Netherlands Meeting on Dredging and Related Technology, in Charleston, South Carolina. Dan will be presenting a paper entitled "Solving Channel Maintenance Problems at Reads Landing, Minn."

The United States and Norwegian delegates meet yearly to exchange technical information, and the different approaches and concepts used in dredging.

Dan also will be attending the Dredging '84 Specialty Conference on Dredging and Dredge Material Disposal, that will be held in Florida during the month of November.

Hispanic American Heritage Week

by Phil Campbell, EEO Assistant

Through a presidential order, the week of September 10-16 has been designated as Hispanic Heritage Week for observance by all branches of the government.

The teamwork among EEO, personnel, and affirmative action-sensative supervisors, has resulted in the St. Paul District being proud of its achievements through the effective use of the Hispanic Employment Program (H.E.P.).

In order to increase the number of Hispanics in the workforce, the H.E.P. manager, EEO, and personnel recruitment and placement branch have expanded recruitment efforts. Students from a predominantly Hispanic high school, were invited to spend a day at the district office and tour Lock and Dam No. 1. As a result of this effort. several Hispanic students enrolled in the Stay-In-School (SIS) program. The recruitment efforts, of the St. Paul District, have developed contacts at local colleges, which have provided applicants for SIS, Co-op and Jr. Fellowship positions.

Over the years, the H.E.P. used a number of methods to publicize the program: speakers have mounted the podium; movies have been shown; displays have been set up; dancers, singers and instrumentalists have performed; and news articles have been published. All of these, in various combinations, have been effective and meaningful observances.

This year Corps employees, with Hispanic heritage, were invited to help plan an appropriate program. A DF outlining events and displays will be circulated in advance of the functions.

The H.E.P. sponsored events, have emphasized the contribution and impact of the Hispanic-American on the economic and physical cultural, growth of America. Not only have the past and present accomplishments of this culture group been recognized. but also, the potential energies this group has for the district to draw and build upon. The continuing increase in the district Hispanic-American employees is testament of its commitment to the Hispanic Employment Program.

Nutrition Week **Informative**

"Eat Well, Stay Well" was one of several seminars, sponsored by the Feds for Fitness during Nutrition Week, July 16-20. Mary Peick, a registered nutritionist with the St. Paul Ramsey Country Nutrition Program, explained the following dietary guidelines, recommended by the U.S. Department of Agriculture and the U.S. Department of Human Services.

· Eat a variety of food. In order to stay healthy, an average person should consume 40 different nutrients a day. By doing so, the majority of people will not need to take vitamin or mineral supplements.

· Maintain ideal weight. The weight of most people, should be the same as it was when they were 20 or 25 years (continued on page 8)

Devils Lake, North Dakota

level of Devils Lake has risen from an elevation of 1401 feet to 1428. In response to the rising water, the St. Paul District has designed a flood control project to protect the city.

The project plan consists of leveee and dam structures across the head of Creel Bay and interior drainage facilities. The project would protect the city of Devils Lake up to a surface level of 1440 feet. However, property around the lake outside of the city, including residences, highways, recreational fa-

From 1940 to the present, the water cilities, and agricultural lands would receive no protection and would still be subject to flooding, if the lake level continues to rise.

> The Corps is now working on a new study of the entire Devils Lake basin to develop long-term solutions to the problem. This study is anticipated to last about three years. Data collection, alternative evaluation, impact assessment, and public and agency coordination will all be accomplished during this period.

Technical Resource Assistance

Information is a key element in all decision-making. Decisions concerning the Red River of the North are no exception. That is why the district is working to create a Technical Resource Assistance program for the Red River

According to Chuck Crist, chief of floodplain management and small projects branch, establishment of a Technical Resource program is a way for the Corps to provide technical service and planning assistance to local, state, and federal agencies and groups concerned with managing water resources along the Red River. "If this concept is adopted, we hope that it will contribute to solving flooding and related problems in the Red River valley by making planning and engineering information more readily available to those local interests making water resource decisions. We also see the assistance program as a way of decision-making streamlining the process by eliminated time-consuming and costly duplications of efforts by

Information is a key element in all the various groups working in that recision-making. Decisions concern- gion," Chuck said.

The Technical Resource Assistance program concept was originally proposed by local interests in 1980. The idea was to make all of the Corps' planning and engineering experience and information on the Red River valley available to local governments and other interests developing water projects throughout the basin. "We would basically create a data base from information we already have on the Red River valley. This information would include hydrology data, floodplain information, economic studies and hydraulic/hydrologic models.

When operational, local agencies would be able to access the Corps' files and expertise for information on projects they are considering. Hopefully, this should improve local planning efforts along the valley," Chuck said.

The Technical Resource Assistance program has been approved as a concept by NCD and OCE, but, funding has not yet been approved.

Security Notice

Policy for Monitoring and Recording Conversations

You Cannot:

—Listen to or record a telephone conversation by means of extensions or speaker phones without the prior consent of all parties to the conversation.

—Listen to and record either telephone or face-to-face conversations without the prior consent of all parties to the conversation.

You Must:

—Prior to the conversation, inform the caller that the conversation is being recorded, if you receive the call.

—Prior to the conversation, inform the person you call that the conversation is being monitored by another person on an extension phone and/or that the conversation is being overheard on an extension speaker, and/or that the conversation is being recorded in any manner whatsoever, if you make the call.

Violations Procedures:

—Persons suspecting violations of the above will report circumstances to the Security Office (Ext. 7606 or 7608).

—Confirmed violations must be reported to DA as a serious incident report.

North Dakota Projects/Studies

Studies Project Cost* Red River of the North, Minn. & North Dakota

(Farmstead Ring Levees included)\$8,770,000Souris River1,190,000Devils Lake295,000

 Projects Under Construction
 Project Cost*

 Enderlin - Maple River (Sec. 205)
 \$4,000,000

 Grafton - Park River
 16,300,000

 Lake Darling - Souris River
 65,300,000

 Sheyenne River
 26,200,000

 Devils Lake (Sec. 205)
 1,900,000

Completed Projects Project Cost*

Lake Astabula - Baldhill Dam - Sheyenne River \$3,325,638 Homme Dam - Park River 1,396,097 Minot - Souris River 21,479,500

*These are Federal costs, as of Oct. 1984. They do not include local costs.

Hazardous Wastes: A Challenge for All

"Hazardous Wastes" The term brings images of Love Canal, Three Mile Island and New Brighton. These locations are clearly associated with the dilemma of hazardous waste disposal.

But the problem may be closer than you think, your home may even contain hazardous wastes. The simple act of draining a can of paint thinner on your lawn pollutes your environment.

The Minnesota Wastes Management Board recently formed a task force of environmental and public health agencies, county and city governments and citizen groups to look at household hazardous wastes. The task force focuses on education and identification of household hazardous wastes.

Task force members will look at ways to develop product disposal recommendations, collection systems and to increase public awareness of potential damage to the environment. (continued on page 8)

September 1984

Cost Sharing Means Partnership Financing

by Chuck Workman, Chief, Social Economics-Recreation Branch

Editor's Note: For many years, the mulation, cost sharing formula used for investment programming. How their water resource development proj- dollar share is spent is a decision few ects, had the great majority of the can be expected to dutifully turn over costs being paid by the federal gov- to the Corps. Above all, we must be ernment. Local sponsors were sure that we are an efficient engineer only required to provide about 10 organization providing good value for percent of the cost of the project, their dollar as well as quality services. And the local share was often in Therefore, we must remain flexible in the form of land, easements and our negotiations at all phases of inright of ways rather than actual volvement and clearly address all of funding.

share in the cost of those pro- sponsor. grams. For the Corps, this policy total cost of the project. To date, Congress and the administration have not come to an agreement on any proposal to change the cost sharing formula.

This article examines cost sharing and the need for the district to change it's approach under the proposed cost sharing program.

The method of financing Corps projects remains uncertain pending completion of action by Congress and the President. However, we know that traditional cost sharing will be replaced by a new policy still evolving in Washington. This was made clear recently when both House and Senate committees acted on bills which included increases in cost sharing requirements for non-federal interests. These Congressional actions recognize that federal dollars are not now available and will not likely be available in the future in quantities necessary to rebuild the nation's infrastructures and support water project needs. As this federalversus-user financing question nears resolution, we must be prepared for water resource project development in a new financial environment.

Increased cost sharing by non-federal sponsors brings proportionately greater sponsor involvement in study and project development. Sharing study and project costs virtually assures a new partnership relationship between the district and project sponsors. As partners, sponsors will of necessity "share" control in project for-

plan selection, the partnership sponsor's concerns. One of the current administra- Veils of bureaucracy and technical intion's policies is that people or tricacy must be replaced by clear exgroups who benefit from federal planation of our process and underprograms should pay a larger standing on the part of the non-federal

In this new partnership, sponsors resulted in a proposal to increase have even greater need for the Corps the local sponsor's share of water to understand their local problems and resource development projects to realities. If they are to act as strong approximately 30, percent of the project advocates and provide financial support to studies and project designs, we should know and provide what they need to make the best supporting case. Recovery of their project costs and financing a significantly increased share of a water project will put greater legal and political burdens on a sponsor than in the past. Considering this, we need to provide timely and relevant information to help local sponsors understand and explain the

project and its alternatives, benefits and impacts to their local people. In this manner, local support for projects can be developed, financial sources nurtured, and federal investment dollars maximized.

Maj. Gen. John F. Wall, director of civil works at OCE, said recently to a Corps seminar on project financing, "we all see cost sharing," and he asked that we in the districts find ways to incorporate innovative financing into our process. "We must be leaders, not followers," he said. It was made clear that, while we would not do the financial analysis for local sponsors, we must address the affordability issue from their perspective.

During the coming months, managers and others in the district working on water resource projects will be provided information on the new cost sharing formulas and policies as they are developed.

Financing water projects is no longer the exclusive problem of Programming Development and the sponsor. Project financing must become an integral consideration of everyone involved in the civil works process from initial studies through the construction and project operation phases.

The chart shown below, illustrates the gains within the district yearly.

Hispanic Employment Report 21 June 1984

Fiscal Year	% of Hispanics on Board - COE	% of Hispanics in COE Workforce
1975	2	.3
1976	8	1.2
1977	6	.7
1978	8	.8
1979	5	.5
1980	7	.8
1981	15	1.8
1982	16	1.9
1983	18	2.0

Based on the 1970 census, the number of Hispanics as a percentage of the Twin Cities area was .8 percent; the 1980 estimate was .2 percent.

The People Behind the Corps

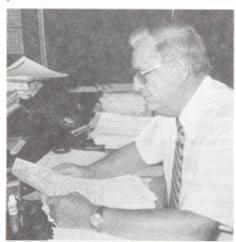
purchasing, I love the type of work I do if you have to move." and my job. I have always had good the purchasing branch.

Dick started with the Corps in 1960, as a purchasing agent, and in 1969 became chief of the purchasing branch. "After I joined the Navy in 1942, I became a purchasing agent for the forest service and then transferred to GSA in Denver, also as a purchasing agent."

"One of the real challenges I have faced, was the flood of 1965 and 1969. The state and local agencies didn't have equipment to fight the flood, so that left the Corps responsible for gathering all of the equipment. With the floods being of such magnitude, we had to fill quite a few emergency orders. Now all federal and local agencies are better prepared to handle floods."

In 1982, Dick was selected as the EEO Supervisor of the Year.

When asked if he had any advice to the younger employees of the government, Dick replied, "In order to climb, you have to be mobile. You have to be



Dick Lindberg Photo by: Pam McFaden

"I have always been interested in willing to travel, and try for jobs, even

After a hard day on the job, Dick people to work with." This statement enjoys going home to work in his garwas made by Richard Lindberg, chief of den, or going out on the lake to catch some fish



Suzanne Gaines Photo by: Pam McFaden

"Being a sociologist, I must be involved with the public at all times. If there are negative reactions to a project, I find a more positive solution to it." This statement is from Suzanne Gaines, a sociologist for the Corps. Suzanne has been employed by the St. Paul District for six years.

Suzanne analyzes each project and how it relates to the public. To do this surveys must be conducted and data collected. When all this is completed, Suzanne is then able to evaluate the project to see if it best suits the needs of the public.

"When my research is completed and it has made a difference in a project, it is very rewarding," says Suzanne.

Suzanne's energies are not only noticed at work, but she is tutoring English to an Iranian refugee family. And when not tutoring, she is busy working in her garden.

Drive carefully!!



People

Newcomers: The St. Paul District welcomes the following permanent employees: Jill Olson, secretary (PD-ES); Betty Krueger, clerk-typist (ED-M); Richard Gorr, computer programmer analyst (DO-P); and Jennie Gorr, personnel clerk-typist (EP-R).

Conversions: Congratulations to the temporary employees who were converted to career conditional appointments: Steve Sing, surveying technician (CO).

Departures: Farewell and good luck to the following employees who left the St. Paul District: John Elliott, laborer (L/D #9); Sherry Gudgeon, clerk-typist (L/D #8); Don Moore, accounting technician (DC-FR); Jeannie Wagner, wildlife biologist (PD-ER); and Larry Larrivy, industrial property management officer (DC-FP).

Promotions/position changes: Congratulations to the following employees who have either received a promotion or position change or both: June 1984: Ann Allen, system accountant (DC-F); LeRoy Campbell, sewage disposal plant operator (CO/Leech); Terrance Jorgenson, geologist (ED-GHH); Marc Krumholz, dredging coordinator/environmentalist (CO-M): Terry Ladd, sewage disposal plant operator helper (CO/Sandy); Clinton Skoog, sewage disposal plant operator (CO/Gull); Jean Turcotte, computer operator (DO-P); Kenneth Wessin, cook (Dredge Thompson); and Louise Zawlocki, economist (PD-ES).

Memoriam: Albert J. Jahnke passed away August 12, 1984 at the age of 75. Albert was employed by the St. Paul District from 1938 to 1969 in drafting.

Silver Medalist

Susan Rapp, daughter of Col. Rapp, came from behind to finish second place in the women's 200-meter breast-stroke competition at the 1984 Olympics in Los Angeles. In winning the silver medal, Susan also set a new American record for the 200meter breast-stroke with a time of 2 minutes, and 31.15 seconds. The old record of 2:31.54 was also set by Susan during the Olympics trials in June. Later in the week, Susan finished seventh in the 100-meter breast-stroke.

Miter Gate Work Completed

by Rosemarie Braatz

The Derrickbarge HERCULES completed the reinstallation of the miter gates, that were removed in June, from Locks No. 9 and 10. Both sets of gates were pulled to allow the HERCULES crew to do the necessary repair work and moving in the same operation.

A poiree dam, which is a temporary dam, was installed in the auxiliary chamber at Lock No. 9, and spare gates were used in the main chamber of Lock No. 10.

The gates were moved back to Lock and Dam No. 7, where new steel was welded to replace eroded and pitted parts. The gates were then moved to Lock and Dam No. 8 where they were sand blasted and painted.

The refurbished upper main miter gates were reinstalled by mid-August, and the auxiliary gates were installed at the end of August.



A gudgeon pin removed from the miter gate of Lock and Dam No. 10, shows excessive scouring. Photo by: Ken Tschida

NOTICE

The Public Affairs Office needs your help to locate a few copies of the March Crosscurrents, by September 30. If you have a copy of this issue, please contact Pam at 725-7505. Your help is appreciated in this matter.

Nutrition

(continued from page 4)

old. When dieting, do so gradually one to two pounds a week to avoid serious health problems.

· Avoid too much saturated fats and cholesterol. Individuals who follow diets high in saturated fats and cholesterol, such as eggs, organ meats, butter, cream shortening and coconut oil. tend to have a greater chance of a heart attack. Foods that are low in saturated fats and cholesterol are lean meats, fish, and poultry, should be baked, broiled or boiled.

· Eat foods with adequate starch and fiber. The majority of human energy comes from carbohydrates and fats that are consumed. If fat intake is limited, increase the amount of calories from carbohydrates, to supply the body with needed energy.

· Avoid too much sugar. The major The St. Paul District is also very con- ular hazardous substance, i.e. substi- health hazard from eating too much cerned with the proper management tuting baking soda and ammonia for sugar is tooth decay. Estimates indiof hazardous materials. As a federal commercial oven cleaners or spraying cate that Americans use on the average agency, the district is required to ac- soapy water on bug-infested plants in- of more than 130 pounds of sugar and

mendations. Handling disposal waste *Avoid too much sodium. Sodium and trict is responsible for the clean up of was also discussed. For example, used chloride are both essential elements any waste spills on or near Corps motor oil can be recycled. Any gas sta- and both are contained in table salt. lands. As part of the responsibility, the tion or auto-supply store can accept However, people with high blood used oil or tell you where recycling is pressure should reduce salt intake. The average recommended daily al-Further information on the district lowance for salt intake is one teaspoon

high in calories and low in nutrition.

Hazardous Waste

(continued from page 5)

complish its work in an environmentally sound manner. Therefore, the dis-Hazardous Materials and Toxic Substances Management Plan was developed by the emergency management division. The plan tells how to respond to pollution spills and provides a guide to proper management of hazardous materials.

Though the plan can identify ways to clean up materials, it is the responsibility of the employee to recognize when these hazardous materials have been spilled. Only by being aware of the damages can harm be prevented.

Board, in their July 1984 publication of FORESITE, provided examples and suggestions on controlling hazardous wastes. Use of alternatives to a partic-

stead of insecticides were two recom- sweeteners a year. available.

plan and activities of the Minnesota a day. Waste Management Board is available . If you drink alcohol, do so in moderain emergency management division, tion. Alcohol, generally speaking, is extension 7511.

Who's Who Answers . . .

From left to right: Al Rosenberg, Jerry O'Neill, Roman Greene, George Darling, The Minnesota Waste Management Jan (Thompson) Ferring, Robert Fletcher, Jim Kursu, and Diane Shanley.