

Landsat, in 1972, began providing photos to the public. Those pictures could only render images of objects larger than 250 feet across.

This all changed when earlier this year a private company called Space Imaging made history by distributing the first high-resolution satellite images of a North Korean ballistic missile site. Their photos had a one-meter resolution, providing the public a detailed look at the missile facilities of this rogue nation. Ruts in the road used by North Korean trucks could be seen.

The industry for commercial satellites is growing steadily. In 1994 President Clinton issued Presidential Decision Directive 23 which permitted the Commerce Department to license 12 U.S. companies to operate remote-sensing satellites. Space Imaging and Aerial Images, the company which took the Area 51 pictures, may be the first two of these companies to get a satellite aloft, but there are more to come. At least two other U.S. companies plan on launching satellites this year and several foreign companies have similar plans.

Legal restrictions surrounding these photo purchases are few. Imaging companies do not have to identify either their customers or their pictures. An amendment to the 1997 Defense Authorization Act prohibits U.S. companies from selling satellite images of Israel that show objects with a diameter under 6 feet. Any sale of images to a terrorist state or any regime under U.S. or international sanctions is also prohibited. Aside from these restrictions, there are virtually no limitations on any satellite or any sale of satellite pictures. And even these restrictions are going to be harder to maintain as competition increases from more companies outside the United States.

At the moment, the images are expensive, limited in coverage but not difficult to purchase. Foreign governments, private groups or individuals can now place their orders. In a competitive market with more countries offering this service, there will be competition to provide more precise pictures, of a greater number of subjects, in a more timely manner, at less cost. The restrictions the U.S. now imposes will be harder to maintain in such a free market. What was secret once, will be secret no longer.

Pictures of Area 51, for example, were provided by a Russian launched satellite. India is also beginning a program to launch high-resolution imaging satellites and Israel is planning to launch its own commercial satellite. American restrictions on satellite images of Israel only apply to American satellites. Soon commercial satellites will also be using radar imaging—and thus will no longer be limited by the need for clear skies—and hyperspectral sensors which permit analysis of chemical characteristics. The United States government has long been part of the action. NASA's Commercial Remote

Sensing Program is based at the Stennis Space Center in Mississippi.

But it is clear that as this competitive industry grows in the future, we should examine the impact of commercial satellites on our nation's security. Many have applauded the growth of this industry as a means of keeping the public well-informed and expanding the national discussion on issues of national and international security. It is true that having access to satellite images of other countries does enable the U.S. to monitor more areas around the world, to identify violations of international agreements, detect human rights abuses and watch for possible security threats. It will mean private, non-governmental organizations, such as the one which commissioned the pictures of North Korea, will be watching the world too, and issuing their intelligence bulletins.

This may result in confusing interpretations. Countries could take advantage of the fact that they may be monitored by one of these satellites. Knowing that they are being photographed by a satellite and that these images may be made public, states could attempt to blackmail the international community by staging what appears to be a more robust nuclear program or preparations for a missile test for the benefit of the threatening images that this would produce. After all pictures do not lie, do they? Or they could do exactly the opposite and disguise their advanced defense capabilities so that the images captured and released to the media actually reinforce a rogue nation's efforts to circumvent international law.

This possibility calls to mind the pictures taken last January of the Nodong missile launch site in North Korea. As I mentioned earlier, those pictures depicted a crude missile site and a launch pad that cuts through a rice paddy, making the North Korean facilities appear primitive and unthreatening. But these observations contradict the September 1999 National Intelligence Estimate which believes North Korea to be the country most likely to develop ICBMs capable of threatening the U.S. during the next fifteen years. If the U.S. accepts these pictures as fact and believes that the North Korean missile site is as unthreatening as it appears, should we let down our guard and disregard the threat they may pose to our country? I think not.

Similarly, in March of this year, satellite photos of Pakistan's nuclear facility and missile garrison were taken by a commercial satellite and sold to a Washington-based arms control organization. These images have sparked a public policy debate over their interpretation and international security implications. The organization that purchased these photos insists that they are proof that Pakistan will not be persuaded to give up its nuclear weapons program. However, a possible misinterpretation of this data could easily incite a flare-up of the already

volatile relationship between Pakistan and India.

We cannot make assumptions about what these pictures mean when constructing our national security policy. Our eyes can deceive us. Photo interpretation is going to open up a new area of commercial employment for former government analysts. This evolving space race of the commercial satellite industry can offer us many military and civilian benefits. It can be an important tool in assisting us to make many of our national security decisions in the future. But we must also be wary about jumping to conclusions from what we see. A single picture may not be worth a thousand words. We must contemplate the use of these commercial satellites carefully and find the way to best utilize them so that they bolster, not threaten, our national security.

Just as Global Positioning System (GPS) navigation devices are now widely accessible, we could have a situation in which an enemy uses GPS to attack an American target identified by commercial satellite imaging. Recently, the White House announced the United States would stop its intentional degradation of the GPS signals available to the public, giving the public access to the precise location system previously possible only for the Department of Defense. Defense is requesting \$500 million in FY2001 to sustain and modernize the GPS program. Much of the technology used in commercial space launches came from the military.

This is a strange new world. We need to gain a greater understanding of the implications of this technology on our national security. The technology may be inherently uncontrollable—just as export controls over computer encryption became impossible to sustain. Satellite imagery has the potential to be a major asset to the arms control, human rights, and environmental communities. We are witnessing the birth of a new area of information technology. I would urge my colleagues to consider this issue as we begin to examine American security in the 21st century.

142ND ANNIVERSARY OF THE ADMISSION OF THE STATE OF MINNESOTA INTO THE UNITED STATES OF AMERICA

• Mr. GRAMS. Mr. President, the State of Minnesota has truly been blessed with a wide array of remarkable gifts. Few places on Earth can boast such diversity amongst its abundant natural resources, prosperous industries, and exceptional people. Today marks the 142nd anniversary of Minnesota's admission as the thirty-second state of the Union, and I want to take this opportunity to reflect on a few of the things that make my state special. This is a difficult speech to make in such a short amount of time, as I am sure I could break Senator THURMOND's twenty-four hour and eighteen minute

filibuster record by talking about Minnesota's contributions to America but I will stick to just a few of the high-lights and try to finish up by sundown.

Minnesota's natural beauty has been photographed and documented time and time again. License plates may proclaim Minnesota to be "The Land of 10,000 Lakes," but in reality, our vast lakes number in excess of 12,000, and we have more than 63,000 miles of natural rivers and streams. But there is something about sitting on the shore of Mille Lacs Lake at dawn on a Saturday in July that even a two-page spread in National Geographic cannot capture.

Minnesotans have a unique relationship with their great outdoors. Many take advantage of our pristine environment through a large assortment of activities, such as taking a week to canoe through the Boundary Waters or going for a walk along the Mississippi River over a lunch hour. Minnesota is a true sportsman's paradise. Our unique habitat creates some of the best hunting and fishing in the country. We are proud of our outdoor heritage, and take seriously our commitment to maintaining the delicate balance between protecting the environment and the responsible use of our resources.

Nor are we shy about sharing our bounty with others. Minnesota welcomes more than 20 million vacationers every year, who support 170,300 tourism jobs and return \$9.1 billion to the local economy. Yet, for all those visitors, our state offers places of such solitude that a camper or canoeist can travel for a week and spot any number of deer, bears, and bald eagles, but never see another person.

The influence of agriculture on Minnesota life and traditions cannot be overstated. Even as family farms struggle in today's difficult market, the resilience and dedication of our farmers establishes the backbone of the Minnesota economy. One in every four Minnesota jobs is tied to the agriculture industry in some way. Minnesota has become a national leader in international exports, as our producers export billions of dollars worth of grains, meats, and other products every year. I am proud of my ongoing efforts to ensure that even more world markets are opened to Minnesota agriculture products—they are among the best products in the world, and they should be shared. Many of the nation's top job providers call Minnesota home. Well-known names like General Mills, Pillsbury, 3M, Target, and Cargill have deep roots within our communities. Aside from the economic impacts made by our corporate community, there is an impressive philanthropic presence in the state. For example, Cargill's generous contributions to causes such as education, environment, and youth programs total in the tens of millions of dollars.

Firms such as Medtronic and St. Jude Medical are national leaders in the bio-medical industry. Their products have given hope to those who pre-

viously faced a bleak medical outlook. Other Minnesota organizations are searching for answers to tomorrow's problems—today. The world-renowned Mayo Clinic not only treats over half a million patients a year, but is leading the charge against the mysteries of mankind's deadly diseases through its ongoing research.

Of all the successful companies, natural beauty, and bountiful resources Minnesota plays host to, the real treasures are the people of my state. Successful Minnesotans come from all walks of life. Some of the most prolific writers of the past century have hailed from the North Star State. The first American to be awarded the Nobel Prize for Literature was Sinclair Lewis, a native of Sauk Centre, Minnesota. F. Scott Fitzgerald, Jon Hassler, and Garrison Keillor are all writers we are proud to call our own.

Something about the fresh air in Minnesota inspires us to do bigger and better things. Charles Lindbergh must have gotten a big whiff of that air; so did Judy Garland, Kevin McHale, and Bob Dylan, just to name a few. Our state and nation recently mourned the loss of one of our most beloved natives. Charles Schulz captured the hearts of young and old alike with his long-running Peanuts comic strip, and we will miss him each and every Sunday.

There are many Minnesota celebrities who have contributed to the richness of our nation, but the people who really deserve the applause and recognition are the men and women who day in and day out strive to make their communities, state, and nation a better place to live. The farmer who harvests our nation's corn, the police-woman who patrols the streets, the stay-at-home mom who supervises a household of kids, and the volunteer who takes the time to visit a disabled veteran rarely receive the accolades they deserve. These people are as indispensable to the growing, bustling community of St. Michael-Albertville as they are to the thriving metropolis of Minneapolis-St. Paul. I applaud them and am proud to represent each of them here in the United States Senate.

The quality of life in Minnesota is outstanding for a reason. Ideals such as hard work, dedication, personal responsibility, and a true passion for life are all essential to my state's success. Growing up on a Minnesota dairy farm, I was fortunate enough to witness these qualities and their importance at a very young age.

And for any of my colleagues who may be wondering, you don't have to be a native to spread the "Minnesota Nice" spirit. For example, some of the most outstanding Minnesota citizens are those from its many ethnic communities. Their devotion and contribution to Minnesota's way of life is commendable, and representative of the way our state seems to bring out the very best in its people.

I am deeply proud of my state, Mr. President, and representing her and her

citizens is a great honor. So, on this 142nd anniversary of our statehood, I encourage Minnesotans to take time to discover something new about our state and ponder some of the many treasures with which we have been blessed. Visit one of our sky-tinted lakes, the Mall of America, Split Rock Lighthouse, Fort Snelling, or even the world's largest ball of twine. Take pride in our state and continue the efforts to make Minnesota an even better place to call home.●

CRIME VICTIMS' RIGHTS

Mr. JOHNSON. Mr. President, for the eighth year in a row, the Uniform Crime Report indicates that violent crime has decreased across our country. In 1999, the number of murders, rapes, aggravated assaults, robberies, and property crimes decreased eight percent in the Midwest and seven percent overall. While crime experts will argue endlessly on the reasons behind this remarkable trend, I believe that local, state, and federal law enforcement are primarily responsible for making our streets safer than a decade before.

While I am pleased with the results of this new report, it is important to remember that behind every crime statistic, there is a child, a spouse, a relative, or a friend that has been victimized. Even one crime is too many because that crime victim has been violated in a way that forever changes their life. In our country's haste to focus on what should happen to the criminal, the victim is too often overlooked. That doesn't have to be the case, and I believe that more should be done to assist crime victims in South Dakota and around the country.

As a former prosecutor, I am well aware that victimization in and of itself is terrible to cope with, let alone the anguish of a legal proceeding and restitution recovery. The voice of the victim should be heard at every step of the criminal process, and local and state programs should have adequate resources to effectively deal with crime victims.

States have taken the lead in protecting the rights of crime victims, and it is time for the federal government to follow suit. South Dakota provides a number of specific "victim's rights" including the right to restitution, notices of scheduled hearings and releases, an explanation of the criminal charges and process, and the opportunity to present a written or oral victim impact statement at trial. South Dakota also has victim/witness assistants in many of the prosecutor's offices across the state who work with crime victims on a daily basis.

I am a cosponsor of the Crime Victims Assistance Act which enhances victims' rights for federal crimes and provides several grants for state and local prosecutors, judges, prison employees, and law enforcement officials