

**Meeting Description:** Michigan Geographic Framework Users Meeting

**Date:** May 9, 2002

**Time:** 10:00 a.m.

**Location:** Michigan Center for Geographic Information, George W. Romney Building, 10th Floor, Conference Room

I. Approval of April Meeting

We are still working on finding the right location for placement of minutes on the new web site: [www.michigan.gov/cgi](http://www.michigan.gov/cgi)

II. New Office

Rob Surber, Michigan Center for Geographic Information (CGI), reported that the Michigan Information Center (MIC) has changed their name to the Center for Geographic Information (CGI) effective April 26, 2002. There is a new web site that represents a single geographic portal for the state of Michigan: [www.michigan.gov/cgi](http://www.michigan.gov/cgi). The direction the governor and the Department of Information Technology (D.I.T.) director is for the CGI office to provide more leadership and coordination for enterprise state government geographic information technology. MIC has taken on number of projects involving customer service at local level, federal level, etc. If you have worked with the MIC in the past, we will continue to work with you in a similar way.

Eric Swanson, CGI, stated that with the creation of D.I.T., there is new emphasis on technology and geographic information systems (GIS) as a whole has been elevated in stature and usefulness to not only for state government but all agencies involved. This will be a benefit for entire the GIS community in the state. The governor endorses it. It formalizes many of the things that MIC was already doing. It provides vehicle to look again at state government and how it operates and how it can better leverage and coordinate its resources. Examples from the new web site were handed out. D.I.T. is currently organizing itself – 3 deputy directors were named yesterday. The CGI has been placed within the D.I.T. as an entity by itself reporting to the Agency Services Deputy. Since GIS was considered, it was viewed in the Information Technology (IT) world as specific function of state government. The non-GIS functions (Census coordination, promotion, and data dissemination; HEIDI; Legislative Tracking System and miscellaneous web page development) that MIC has historically been involved in will be transferred to another organization yet to be determined. Talks are currently under way as to where they should go. The state demographer has been transferred to the State Budget Office. Other CGI staff will be refocused in the GIS arena. This is a good thing because there is a lot of talent, which can be refocused. It gives CGI a single priority and focuses the organization. The large conference room was turned into a Web War Room – 10 CGI staff, Michigan Department of Natural Resources (MDNR), Michigan Department of Environmental Quality (MDEQ), and Michigan Department of Transportation (MDOT). The MI Map Gallery was the first pass to create a spot where anybody can go find any PDF map or thematic map created by state government agencies maps. An agency can create a map asset and it can be portaled into this site without duplication. MI Mapper provides online mapping applications where people can go to find what state government has been up to. The Geographic Data Library is built upon MDNR's spatial data library- want to locate all of state's digital data there (approximately \$30 million of data). Right now the site has good user functionality and interface. The next step is to make it better and create a vehicle for update. "Programs, Projects and Initiatives" is a place for the entire state's user community can announce projects of state, local, federal projects. The "Geographic Information Standards" location is the place to make available standards. The "Outreach & Promotion" announces conferences and training workshops for all events – local and federal as well as state. Will be putting significant resources into keeping this section up-to-

date. The “Grant Opportunities” section will list federal and state grants that may be available. In most cases will link to the announcements.

Jeroen Wagendorp, Allegan County, suggested integrating the listserv to this page.

Rob Surber, CGI, agreed that this needs to be done. Now users have to go through the State of Michigan listserv site.

Eric Swanson, CGI, added that the MI Geographic Names Authority section is work where CGI serves as conduit to create official names for features in the state. The Michigan Geographic Information Network is the contact button for framework partners.

Rob Surber, CGI, added that the geographic information network is the key to the whole framework concept. Our office has spent time internally to establish a solid base but over time there needs to be a way to involve other people who are closer to the data – may have custodial rights or their duty is to keep up-to-date. There will be prestige associated to being an official provider to framework. The concept of the network involves people who are providing data, updates, promotion of education and outreach, technology partner. This is a key component as to where framework is going.

Eric Swanson, CGI, commented that it was decided that the site should be established as a departmental site, which means that it shows in the department directory on michigan.gov portal – not buried within D.I.T.’s site. State government database arena and the ArcIMS interface arena will be strengthened and coordinated to bring resources together and create an infrastructure for agencies to feed off of and host applications. Want to bring together imagery needs and how to partner with local government efforts. This is an enterprise asset to state, federal and local government. Base mapping is being viewed as central activity. Departmental business activities and application development belong in the departments. CGI is planning to better coordinate with key individuals within each department. The CGI creation started moving fast about 60 days ago.

Rob Surber, CGI, added that there are quite a few information technology (IT) projects and initiatives at high levels within departments that could make use of GIS but historically have not consider it because it has not been part of normal processes and planning. CGI is at the table now early on and because there is a lot of non-traditional mapping out there that could make use of GIS information embedded inside of existing IT strategies and applications.

Ann VanSlembrouck, SEMCOG, asked if the data library will replace the Michigan Department of Natural Resources (MDNR) spatial data library.

Rob Surber, CGI, responded that CGI will be the central portal.

Eric Swanson, CGI, stated that CGI is always looking at how to do things better. Never had a formal advisory board, this group serves as an advisory board and will continue to. Should we think about if we need different ways to advise state enterprise GIS. It is a discussion point that will be brought up at a later date.

## II. Geographic Framework Program

### A. Version 2 Update

Rob Surber, CGI, reported that Version 2 is going through quality control. CGI is working on validating the statewide network. Re-posting of mile points is coming soon. All features have been moved as part of ortho repositioning process and will be calculating mile points based on that. This is a big transaction file from lasts version to this version. Version 2 will be complete end of May. MDOT collected global position system (GPS) points at road intersections and sent them to CGI for comparison with the repositioned framework roads. Also did a verification of the Benzie County road intersection and there is a mean difference of 3-meters. There are 2 points above 10 meters off but everything else is 5 meters or less. CGI will continue to get random points around the state.

Everett Root, CGI, added that MDOT has collected approximately 30 GPS points from each of 2 counties and the mean average difference are 2-4 meter average.

Bill Enslin, MSU, asked if digital elevation models (DEMs) varied across the ortho photos themselves.

Rob Surber, CGI, added that these are 1992 and that is another issue. Wexford County did have a different history than some of the other counties.

Gary Bilow, (MDNR), stated that the MDNR did replacement but doesn't know if it got fixed or not.

Rob Surber, CGI, recalls that MDNR was going to do a correction and that may part of the story here.

Ann VanSlembrouck, SEMCOG, asked if CGI had done checking in southeast Michigan.

Rob Surber, CGI, responded that it is the next area to deal with. Wayne County is good – the Michigan Geographic Framework (MGF) snapped to the county centerline product.

Everett Root, CGI, added that Monroe County is done with the 1992 photography whereas Macomb County or Oakland County was done with 1998 or 1999. Did not use Oakland's photography but had it available for reference.

Ann VanSlembrouck, SEMCOG, asked if there is a release date yet.

Rob Surber, CGI, responded possibly the third or fourth week of the month.

Everett Root, CGI, added that CGI is doing quality control and then MDOT will get a transaction file. There are other things to do before it goes on the web site.

Rob Surber, CGI, commented that there may be something available before it is on the web site. Contact CGI and they may be able to get something out quicker than putting it in county files.

## B. Next Steps

Rob Surber, CGI, reported that CGI is finalizing procedures to reconcile the ACT 51. Displayed a transparency created of the ACT 51 map to super impose to see that it has been registered and the framework lines as well the ortho behind it for the village of Dimondale. This is with the repositioning work and you can see the additional lines. There is a series of rules in reconciling this. If there are features that are on the photo – not on ACT 51 – there is a separate layer that can be printed out with a map cartographically when these are produced. These will not be fully integrated until notification from government stating this is real. There is an official statute on the books that the Department of Treasury is to receive official road name changes at the state level and be recorded on the ACT 51 maps. Will try to record the names on the certified ACT 51 maps and see what that does to create discussions at the local level. The process will involve adding roads and not taking out things that are currently on the ACT 51 map. There will be a differentiation of map features that aren't support source materials. CGI is crosschecking GIS mileage with ACT 51 mileage and they are fairly close.

Jeroen Wagendorp, Allegan County, commented about a state web site to download new approved subdivisions statewide. Is that used as a vehicle for CGI?

Rob Surber, CGI, responded that there have been conversations of some how capturing the new things and recording them as flags, because it is not always "as built". But there is a "heads up" as they come in. They are not georeferenced as they come in.

Jeroen Wagendorp, Allegan County, added that it was pages, the major downfall is that they can not be easily downloaded.

Gary Bilow, MDNR, commented that they are Intergraph CGI format files and pretty much useless to others. MDNR has been working with these files 2-3 years for their real estate process. They have converted the CGI files to PDF. MDNR is trying to get Michigan Department of Consumer and Industry Services (CIS) to adopt MDNR's version of maps and database because they are more friendly.

Jeroen Wagendorp, Allegan County, commented that the PDF solution is excellent. They are being pestered at the county level for subdivision data. They can provide it but it would take a lot of time. But it would be helpful to point them to the web site.

Rob Surber, CGI, added that there is a link from CGI site now which is easier. Go through “Programs, Projects & Initiatives”, under “Remonumentation”, and then back into it. There is also information under Information Standards. A lot of historic information takes a long time to work through, but there is a way to get dated the new stuff coming in as a trigger. It would be useful.

Gary Bilow, MDNR, stated they are trying to get all the subdivisions indexed to QQ area.

Jeroen Wagendorp, Allegan County, commented that the latest version of Adobe Acrobat has an OCR function built in. Since the registered plat has a date in it, there is a way to request what has come in since 2001.

Gary Bilow, MDNR, added that most of the dates are hand written, but the database will have a processing date in it.

Rob Surber, CGI, stated that CGI has not integrated that process only explored it a little but MDNR had not been far enough along in what they are converting to get that going. But the big push is reconciliation, starting from ground zero and then the new stuff means something. This is an information issue that D.I.T. can look at, because there is a lot of need. Another point about the map being shared today is that an important process of certification is that the boundaries are also reviewed and certified. The boundaries and annexation survey could also be funneled through this process in an official way.

Gordon Rector, U.S. Bureau of the Census, commented that this was discussed at IMAGIN. Has made calls and wanted to set time for headquarters people to discuss with CGI.

#### C. Digital Ortho Update

Gary Bilow, MDNR, reported that they are reprocessing the 1992 photos and making them the standard 10-1 compression and making the reprojection a bi-linear interpolation in six counties. They purchased 1998 for two counties and will be reprocessing those. These are quads not QQ. Some of the process used early on had a black around the border and those are being reprocessed to get rid of the black. Spent more MDNR money to get 1998 work done in Upper Peninsula. The United States Geological Survey (USGS) did not match funds but assure that next year will be funds.

Valdis Kalnins, Allegan County, asked if some of the 1998 orthos linear enhanced and others not. They downloaded Allegan County and along coast they looked like they had been stretched.

Everett Root, CGI, added that the coastal photos came from U.S. Army Corps of Engineers. They did 5-6 counties from state line to the Muskegon/Oceana line.

Rob Surber, CGI, stated that the Act 51 map is not a survey grade product. It contains the content but is not to be used to determine the lot lines.

#### D. National Hydro Data Set (NHD) Update

Steve Miller, Michigan Department of Environmental Quality (MDEQ), reported that the state is making good progress. The 1:100,000 NHD has been done by USGS and is on their web site (<http://www.nhd.usgs.gov>). So there is a product that can be used. In Michigan there have been discussions about moving to high resolution (1:24,000 scale) consistent with repositioning done on roadwork. They are looking at two things: repositioning of hydro and NHD high-resolution effort. The last meeting had 70 some people in attendance. There was good feedback and there will be further discussions and feedback will be posted on CGI web site (<http://www.michigan.gov/cgi>) under “Highlights”. The U.S. Forest Service started developing high resolution NHD of forest lands, which would be all waters touching forest lands. They have contracted with Fisheries Institute and everybody is on the same page now. Twelve watersheds are being worked on and 13 remain that the U.S. Forest Service has money for and is working

with a contractor. Will be working with USGS on that effort. There is an effort going on in Indiana - they have money to do the St. Joseph basin. They are considering development of a multi-year cooperative agreement with USGS to potentially provide funding. One question is what to look for when doing repositioning line work – amount of difference needed in line work to start making changes, level of islands to be added in, and a lot comes down to cartographic purposes. Have not defined a business need for GIS data relationships. People want it to be in right spot and they want to drop it onto a digital ortho quarter quad (DOQQ). The group will be sorting through issues and start to evaluate.

Rob Surber, CGI, added that there was a lot of local input, which was important. The general consensus was that once standards are established there will be local needs beyond what the state can do. If there is a good starting point, can work together continue to integrate efforts, especially with the drains. Drain commissioners expressed concern that they are not in the digital age but will be coming along soon.

Steve Miller, MDEQ, added that people are beginning to see applications. The Rouge River oil spill was used as an example. Could look up stream to see what tanks were within the spill.

Rob Surber, CGI, stated that there is a session at the ESRI Users Conference on NHD and CGI will participate in that as part of the state effort.

#### E. 2002 Urbanized Areas / 2001 Legislative Districts

Rob Surber, CGI, stated that it should be 2000 urbanized areas instead of 2002. It is associated with 2000 TIGER population and housing.

Gordon Rector, U.S. Bureau of the Census, handed out a list of Michigan urbanized areas.

Jeroen Wagendorp, Allegan County, asked for a current definition of urbanized areas.

Rob Surber, CGI, stated that there is about a 10-page document defining it. The Federal Highway Administration (FHWA) has a lot to say about some of the changes. There are hops and jumps now included. It is Rob's understanding that FHWA may use the census as their definer, but asked Joyce Newell, MDOT, if that is so or if FHWA is going to define their own boundaries.

Joyce Newell, MDOT, stated that she understands that FHWA is waiting to see what Census comes up with. Some times census boundaries don't make a lot of transportation sense.

Rob Surber, CGI, added that historically there have been two sets of lines – one for federal aid roads and the census definition that applies to some other programs.

Joyce Newell, Michigan Department of Transportation (MDOT), added that in the past they had instructions to start with the census urban areas and expand on those to fit their needs within guidelines. So this year they are waiting to see what they have.

Jeroen Wagendorp, Allegan County, commented that he was surprised that Traverse City didn't make it.

Rob Surber, CGI, added that there are urban clusters that are not part of an urbanized area. It represents a traditional city area outside of the urbanized areas. This makes it a new boundary. A staff person worked on the definition and he could talk it through with you. There is quite a bit of connecting of densities by routes and there are hops. CGI will make the TIGER polygons available on web site. Will tie into federal cost share revenues and regulatory programs.

Everett Surber, CGI, stated that there is a document that tells all the new urbanized areas, split ones, all removed ones, etc.

Rob Surber, CGI, had a copy of the definition that he offered to share. Staff is working delineating these using framework features. It will not be integrated into Version 2 but it will be an ancillary file that will line up with framework. CGI will code the lined integrated with an attribute for the Version 3 release. There will be a set of boundaries lined with framework as soon as CGI is done. Do not expect a lot of new features, there are a few block connector features that have to be added, most will be a physical feature already within framework.

Rob Surber, CGI, also reported that CGI will not be able to code lines with the 2001 Senate House Congressional District but will create a separate file that will line up with Version 2 and will be available on web site. Those will be coded into Version 3 of framework toward end of year. Version 3 will also include new reconciled Act 51 stuff.

#### IV. Michigan Department of Natural Resources (MDNR) Projects and Activities

Gary Bilow, MDNR, reported that there are discussions how the agencies will cooperate and reformulate and what will be done for the whole state. In the process of big GIS solicitation for projects for all employees and then all divisions will evaluate projects. Projects they are working on from last year is ortho photos at 1-foot pixels for all the state parks and the state has 10,000 easements to do different things on state lands crossings (railroad grades, pipelines through state parks) that need to be coded into GIS for facility managers.

#### VI. Michigan Department of Transportation (MDOT) Projects and Activities

Joyce Newell, MDOT, reported that they are working with CGI to move Act 51 maps to framework. The plan is that in January Act 51 will be generated from framework. Highway Performance Monitoring System (HPMS) has 1,700 miles to report that are federally owned roads. Federal Highway Administration (FHWA) collects from the federal agencies and sends the mileage and location information to MDOT. Since MDOT has no way of checking it, they just take FHWA. MDOT may have lead on federal forest highways in Michigan. Some agencies do not have many miles (federal forest have the most) but they have good description of where they are and MDOT would like to incorporate this into framework with appropriate code. Can send FHWA highway data over to CGI if useful. Federal forest data tells number of miles they own in each forest and Michigan has to report number of miles to HPMS by county.

Rob Surber, CGI, asked if there was some information on state parks at one time.

Joyce Newell, MDOT, stated that they don't report state park mileage and it questionable whether they should – they don't qualify for state funding. MSU owns its own roads and MDOT does not report as miles, but probably could.

#### VI. Michigan Department for Environmental Quality (MDEQ) Projects and Activities

Steve Miller, MDEQ, has nothing new to report.

#### VII. Michigan State Police (MSP) Projects and Activities

Eric Nischan, MSP, reported that there was flooding in Upper Peninsula, which got a President's declaration. Framework shined, since State Emergency Operation Center has a great deal of interest in seeing what roads were federal aid roads because money is distributed differently. Took ArcPAD up and did damage assessment with it. It also worked well.

Joyce Newell, MDOT, stated that the MDOT photogrammetry unit is trying to get a new plane and they are trying to generate more business with state agencies.

Eric Swanson, CGI, stated that is a good thing to know. There are more assets in state government than we are aware of - we might be able to do our own orthos in the future.

Eric Nischan, MSP, stated that for emergency management, imagery is a real problem because you have to pay a lot of money right away to get a plane up.

Rob Surber, CGI, commented that this unit flew most of state parks.

Eric Swanson, CGI, stated that now the unit has a half a million-dollar camera and a \$50,000 plane.

Steve Miller, MDEQ, questioned with satellite imagery would there be coverage of flood areas in that time frame.

Eric Nischan, MSP, responded that they checked it out but it was too expensive since they were not sure if it was going to be state declaration or federal declaration.

Eric Swanson, CGI, commented that with issues like this, having a standing contract with satellite vendors with a global imagery program who can turn data around within 24 hours, would be the key. This is a key business case.

#### VIII. Michigan State Industries (MSI) Projects and Activities

Carol Woodman, MSI, reported that the MSI has been working on the Act 51-mileage project. They have finished the Superior Region, all of the Upper Peninsula, and Eaton County. MSI is scanning and registering the Act 51 maps. MSI got more work from MDOT on the Physical Reference (PR) Finder project. They are the most difficult files to find. There is very little data to go on. The "As Built Project" consists of scanned images of projects that MDOT had done back to 1930s. MSI is building program so that they are connected to the location happened at and they can be pulled up by dates, by groups, etc. MDOT can then look at all the drawings associated with the project - all are in one file.

#### X. MSU Center for Remote Sensing and GIS Projects and Activities

Bill Enslin, MSU, reported that since last meeting he made a trip to San Francisco to accept awards for the development of the Land Scan Viewer and Map Image Viewer. This is from the *Computer World* Honors Laureates Award. The top 100 technology companies in the world submit candidates then there is a screening done by case study. Nice recognition of what the state of Michigan has put together. There is a web site: [cwheroes.org](http://cwheroes.org). There will also be recognition on the MSU web site as well.

Bill Enslin, MSU, also reported that they are trying to come out with Version 2 to align framework to the viewer. These were handed out at the IMAGIN conference. They prepared a revised summary document of the viewer as well. They got new versions out to several state agencies and have gotten good reviews and suggestions. They are working with MDEQ on Well Logic data. They are downloading from the new CGI web site for Version 1 data and trying to make it run smoother. Version 2 has a structural difference and when it comes out will feed in. They started working closer with Allegan County data. MSU is providing training sessions for Tech Week at MSU. During the week there will be sessions on variety of GIS topics – ArcIMS, ArcGIS, Map Image Viewer, and Image Rectification. It was initially designed to get MSU people involved but opened it up.

Eric Swanson, CGI, stated that we will put that information on the CGI web site.

Ann VanSlembrouck, SEMCOG, asked if this was hands-on.

Bill Enslin, MSU, responded they are but not a formal class. There is not a certificate awarded at the end. It is more of an introductory class. There is also 1-2 hours at end of each day for technical questions.

Eric Swanson, CGI, commented that CGI is considering putting the viewer in the hands of key components of the legislature, which could introduce additional interest. It is building on the redistricting project. The redistricting software will not be promoted because they are not ArcVIEW experts but they can use the viewer.

Bill Enslin, MSU, added that they have been developing more for novice users as well as GIS users.

#### XI. County / Local Projects and Activities

Jeroen Wagendorp, Allegan County, reported that they got call from the Federal Emergency Management Agency (FEMA), who is interested in Allegan County's GIS hazardous mitigation

plan. For 80% of Michigan there is no flood plain map. At the county level, they do not have the legislative tools to enforce it. FEMA is looking at counties to do flood plain mapping because of the Unified Michigan Building Code is applicable throughout the state. It is not a township or county building code. The building code does not allow building in a flood plain. So FEMA feels that the counties are eligible to do flood plain mapping statewide. FEMA fell in love with a term that Allegan County coined – “hydrological nuisance” as a replacement for flood zone or flood plain. “Hydrological nuisance” is working way up FEMA hierarchy. Allegan County is moving forward and will work with John Clark, MDEQ, and FEMA out of Chicago and do a countywide 100-year flood plain delineation using county data and the Michigan Building Code.

Steve Miller, MDEQ, commented that FEMA has a lot of money the next fiscal year to delineate flood plains.

Jeroen Wagendorp, Allegan County, stated that he has been told that doing it the old way is too time consuming and costly. They are looking at new quicker, cheaper methods that will give them fairly accurate outcomes. The counties where ortho photography is being acquired in-house, can probably provide better digital elevation model (DEM) than what is available. As a county it will be a huge benefit to know where those areas are. Then it is the county’s job to advise the township as to areas that should not be developed.

Steve Miller, MDEQ, added that there are a lot simplified methods to do that. Most of the time the restriction to controlling elevation to the flood plain is the transportation corridors. It is important that those are represented properly.

Kathleen Weessies, MSU, asked if the Army Corps of Engineers rule on any of this.

Jeroen Wagendorp, Allegan County, responded that he constantly refers federal agencies that are all working in Allegan County. Nobody knows what the other agencies are doing.

Rob Surber, CGI, added that is one of the purposes for keeping up to speed on the web site. Even though there is a 6-9 month lag before the plane gets in the air, maybe site will help.

## XII. Regional Projects and Activities

Ann VanSlembrouck, SEMCOG, reported that there are putting blocks on framework. Down to Wayne and Oakland Counties (40% done). Doing 2000 Land Use update. There are problems and are talking to technical supports. Steve Perry, Wayne County, requested that SEMCOG look at flights for 2005 because they fly the region every 5 years. Normally they get aerial photos, 9x9 contact prints, and low tech. Talking to region people to see what they would like. Meeting with management to see what money they would put in it. The cost is decreasing and technology is increasing there may be hope for 2005 for the region. It may be either 6-inch pixel resolution black and white digital orthos or satellite where you can take land cover.

Rob Surber, CGI, commented that they still have to work on block integration conversion to framework.

Ann VanSlembrouck, SEMCOG, added that SEMCOG would have to see how much additional work would be needed after repositioning. There have been a lot of arcs to close in polygons.

Abbi Mueller, WMRPC, reported that they are still working on Land Use. The US Army Corps of Engineers would not give her the data that she was because they said that the contractor did not do sufficient work for the Ottawa County shoreline and they don’t feel confident with it. The Corps will redo the project in couple of years.

Jeroen Wagendorp, Allegan County, asked if she tried to get the photography from Ottawa County.

Abbi Mueller, WMRPC, said that the county told her they did not have any land use data or photography.

Jeroen Wagendorp, Allegan County, commented that they do. Be sure to tell them WMRPC is a non-profit agency working for the betterment of the area and will not pass on the data to anybody else.

Abbi Mueller, WMRPC, commented that they would be asking Allegan County soon for their data.

### XIII. Federal Projects and Activities

Gordon Rector, U.S. Bureau of the Census, reported that they are looking for different files to use to update TIGER. Michigan is not an issue.

Rob Surber, CGI, commented that CGI would send Version 2 when it is ready.

Gordon Rector, U.S. Bureau of the Census, added that the bureau liked the earlier repositioning version from CGI.

Rob Surber, CGI, stated that CGI added more linkages with key lists and addresses.

Gordon Rector, CGI, stated that Randy Fusaro, Dorothy Stroz, and Bob LeMacchia will come out 2-3 week of June will tentatively come out to talk to CGI

Eric Swanson, CGI, commented that he would also like Bob Marks to attend.

Rob Surber, CGI, commented that CGI has a site that links census data link to framework. Go to the CGI site, census data with framework. CGI will continue to add to that. Right now there is only 2000 SF1 data, but it is ready to go with link fields, can pull down framework, data by table, it zips it for you with documentation. It is worth noting. Even though some census responsibilities are being shifted from CGI, there will be a strong census geography integration responsibility because of the value for all state agencies and CGI will continue in that role.

Jeroen Wagendorp, Allegan County, asked if there are thematic statewide maps at the county level.

Everett Root, CGI, responded that you could download geography and county totals for 285 different subdivisions.

### XIV. Other Issues

None.

### XIV. Next Meeting Date

June 6, 2002, 10 a.m. until 12 p.m., Michigan Center for Geographic Information, George W. Romney Building, 111 S. Capitol, 10<sup>th</sup> Floor, Lansing, MI 48933

\*\* If any changes or corrections are to be made to these minutes, please contact the Michigan Center for Geographic Information at (517) 373-7910. Changes and corrections will be noted on the final copy to be post.