

Septic System Data Collection and Management

Cody Robinson | Soil Scientist

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Important acronyms

SSTS – Subsurface sewage treatment system, or septic system

LGU – local governmental unit, such as county, city, township, or other permitting authority

Minnesota septic system regulations

To access septic regulations in Minnesota, go to the MN Revisor of Statutes website at https://www.revisor.mn.gov/rules/ and search chapters 7080, 7081, 7082, and/or 7083.

For convenience, applicable chapters provided below:

- 7080 INDIVIDUAL SUBSURFACE SEWAGE TREATMENT SYSTEMS
- 7081 MIDSIZED SUBSURFACE SEWAGE TREATMENT SYSTEMS
- 7082 LOCAL ISTS PROGRAMS
- 7083 SSTS CREDENTIALING AND PRODUCT REGISTRATION

Overview

Topics

Local unit of government permitting structure, responsibilities, and reporting questions

Web-based data collection – old method vs. new

Process management and data organization

Communicating our data to the public

Using data for planning purposes

Overview

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State SSTS program structure

State (MPCA)

Minimum standards and criteria:

- Technical standards for systems up to 10,000gpd (7080 & 7081)
- Administrative standards for local programs (7082)
- Credentialing and product registration (7083)



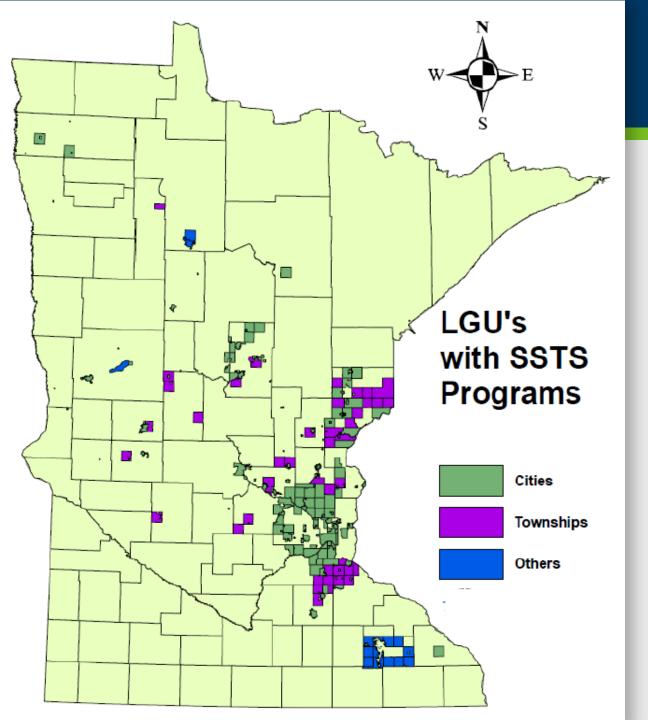
County

- Adopt and implement ordinances in compliance with Minnesota Rules (required)
- Can be more restrictive, but not less than <u>state</u> standards
- Ordinances apply to all land area within the county except cities and townships with SSTS programs



City/Township/Other

- Adopt and implement ordinance in compliance with Minnesota Rules (optional)
- Can be more restrictive, but not less than <u>county</u> standards
- Ordinances apply to all land area with the city/township/other as agreed upon by the county



Local governmental units (LGUs)

Total respondents in 2017 (218)

County (86)
City (85)
Township (43)
Other (4)

Reporting responsibilities

Subp. 5. Reporting requirements for all local programs. Local units of government that administer SSTS programs must provide an annual report to the commissioner. The report must be submitted to the commissioner no later than February 1 for the previous calendar year. The report must include:

General program information – Yes or No answer

- Alternative Local Standards (ALS) for existing systems?
- ALS new or replacement SSTS using a minimum of two foot of separation in allowable areas of the LGU?
- ALS new or replacement SSTS using 2006 Rules?
- Do you track SSTS maintenance/pumping?
- Do you have jurisdiction-wide compliance inspections for property transfer?
- Do you approve SSTS design before issuing permit?
- When in your permitting process do you verify soils?

Residential and other establishment (commercial) SSTS by system type

- # permits issued for Type I/Rock Trenches
- # permits issued for Type I/EZ flow
- # permits issued for Type I/Chamber Trenches
- # permits issued for Type I/Seepage or Pressure Beds
- # permits issued for Type I/Mounds
- # permits issued for Type I/At-Grades
- # permits issued for Type II/Privies, Holding Tanks, and Floodplain Areas
 - # Holding tank operating permits issued
- # permits issued for Type III
- # permits issued for Type IV/Registered Product Systems
 - # Type IV Operating Permits issued
- # permits issued for Type V
 - # Type V Operating Permits issued

Residential and other establishment SSTS by flow volume

- New systems 1-2499 gpd
- New systems 2500-4999 gpd
- New systems 5000-10000 gpd
- Replacement systems 1-2499 gpd
- Replacement systems 2500-4999 gpd
- Replacement systems 5000-10000 gpd

Permits issued for SSTS repairs

- # Residential SSTS repairs
- # Other establishment SSTS repairs

Jurisdiction-wide SSTS questions

- # Fulltime dwellings with SSTS
- # Seasonal dwellings with SSTS
- # Cluster SSTS
- # Dwellings served by Cluster SSTS
- # other establishments with SSTS

SSTS compliance

- Estimated percentage of failing systems within jurisdiction
- Estimated percentage of imminent systems within jurisdiction
- Estimated percentage of compliant SSTS within jurisdiction

The number of compliance inspections of existing SSTSs conducted in their jurisdiction

The number of noncompliant properties connected to centralized sewer

The number of noncompliant properties mitigated by abandonment or removal of a dwelling

The number of noncompliant properties mitigated through government buyout

For counties only, a listing of cities/townships/others operating an SSTS program within the county boundaries

Inspector information

- Name of department head
- Name of Trained Administrator
- Name and email address of SSTS contact
- Inspector(s) name(s) and;
 - License numbers if inspections are contracted out to a licensed SSTS inspection business
 - Certification numbers if inspections are done in-house by LGU staff certified as SSTS inspectors

Tank Installation Report

- a. Installer name
- b. Installer license number
- c. Number of septic tanks installed
- d. Number of Performance/Type V systems installed

Overview

Topics

Local unit of government permitting structure, responsibilities, and reporting questions

Web-based data collection – old method vs. new

Process management and data organization

Communicating our data to the public

Using data for planning purposes

- Individual Excel spreadsheets for each respondent
- Sent and received via email with instructions
- Consolidate into one spreadsheet for data storage and analysis

-	
Athens Township 2016.xls	
Becker Township 2016.xls	
Big Stone County 2016.xls	
Brook Park City 2016.xlsx	
Carver County 2016.xls	
Chippewa County 2016.xls	
Coates City 2016.xls	
Cottonwood County 2016.xls	
Cuyuna City 2016.xls	
Dell Grove Township 2016.xls	
Douglas Township 2016.xls	
Elk River City 2016.xls	
Faribault County 2016.xlsx	
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St Michael City 2016.xls	
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Todd County 2016.xls

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Traverse County 2016.xls

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Taylors 40s City 2016.xls

University of Minnesota 2016.xls

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3												
This is a long spreadsheet, Ques	stions extend	trom Col	umn A thr	ough Colum	n BU		Cells Highlig	ghted in R	ed are Blank			
5												
Jurisdiction Inf	ormatic	n		Gei	neral Pr	ogram	Informa	ition				
	Type of Justidiction 1= county, 2=city, 3=twp,	County Name (for cities, townships, other local	Alternative Local Standards (ALS) for Existing Systems?	Alternative Local Standards (ALS) New or Replacement SSTS Using a minimum of 2' of separation in allowable areas of the LGU?	Alternative Local Standards (ALS) New or Replacement SSTS Using 2006 Rules?	SSTS Maintenance (Pumping)	SSTS Compliance Inspections for Property	Do you approve SSTS design before issuing	When do you verify soils? 0=prior to issuing permit, 1=during construction, 2=after construction,	Permits Issued for Type I	# Construction Permits Issued for Type I Trench/EZ	# Cons Permits Ty
7 Jurisdiction 8 Lake County 2008 Responses	4=other	entities) Lake	Yes/No No	Yes/No	Yes/No	Tracking? No	Transfer? Yes	permit? Yes	3=don't verify	Trench/Rock	Flow	Trench/
9 Lake County 2009 Responses	1	Lake	No			No	Yes	Yes		12	1	
10 Lake County 2010 Responses	1	Lake	No			No	Yes	Yes	1	9	0	
11 Lake County 2011 Responses	1	Lake	No			No	Yes	Yes	1	7	0	
12 Lake County 2012 Responses	1	Lake	No			No	Yes	Yes	0	6	0	
13 Lake County 2013 Responses	1	Lake	No			No	Yes	Yes	0	2	0	
14 Lake County 2014 Responses	1	Lake	No			No	Yes	Yes	0	2	1	
15 Lake County 2015 Responses	1	Lake	No			No	Yes	Yes	0	2	0	
16 Lake County 2016 Responses	1	Lake	No			No	Yes	Yes	0	5	0	
17												

		F	Residen	tial SST	S by Sy	stem	Type				
nstruction nits Issued r Type I ench/EZ Flow	# Construction Permits Issued for Type I Trench/Chambers	for Type I/Seepage or	# Construction Permits Issued for Type I/Mound	# Construction Permits Issued for Type I/Atgrade	_	# Type II Holding Tank Operating Permits Issued	# Construction Permits Issued for Type III	# Construction Permits Issued for Type IV/Registered Product	# Type IV Operating Permits Issued	# Construction Permits Issued for Type V	# Type V Operating Permits Issued
			76		3		4				
1	0	0	47	0	4	0	10				
0	0	0	61	0	4	4	0				
0	0	1	55	0	8	0	0				
0	2	0	47	0	1	0	0				
0	0	0	55	0	4						
1	2	0	41	0	3	0					
0	0	0	40	0	2	2	1	0	0	0	0
0	0	0	29	0	4	4	0	0	0	0	0

			Othe	er Establ	ishmen	t SSTS	by Sys	stem Typ	oe .			
# Construction Permits Issued for Type I Trench/Rock	# Construction Permits Issued for Type I Trench/EZ Flow	# Construction Permits Issued for Type I Trench/Chambers	# Construction Permits Issued for Type I/Seepage or Pressure Beds	# Construction Permits Issued for Type I/Mound		# Construction Permits Issued for Type II - Privies, Holding Tanks, & Floodplain Areas	Holding Tank	# Construction Permits Issued for Type III	# Construction Permits Issued for Type IV/Registered Product	# Type IV Operating Permits Issued	# Construction Permits Issued for Type V	# Type V Operating Permits Issued
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0	0	0	0	1	0	0	0	0	0	0	0	0

Re	esidenti	al SST	S by Flo	w Volur	ne	Othe	r Esta	blishn	nent SS	TS by F	low Volume
# Construction Permits Issued for New Systems 1-2499 gpd	# Construction Permits Issued for New Systems 2500-4999 gpd	Permits Issued for New Systems	Permits Issued for Replacement	# Construction Permits Issued for Replacement Systems 2500- 4999 gpd		# Permits Issued for New Systems 1- 2499 gpd	# Permits Issued for New Systems 2500-4999 gpd	# Permits Issued for New Systems 5K- 10K gpd	•	# Permits Issued for Replacement Systems 2500- 4999 gpd	# Permits Issued for Replacement Systems 5K- 10K gpd
91			0.	<u> </u>			-			0.	<u> </u>
74									2		
72											
71											
51						1					
57											
49			9								
49						2					
36						1					

Total #	Permits Iss	sued All Syst	em Types	SSTS Repa	airs (Only if you issue repair permits)	
New	New Other Establish-	Replacement	Replacement Other	# Residential		Grand Total # of Construction &
Residential		-				Repair Permits
Residential 91	ment	Residential	Establishment		# Other Establishment SSTS	Issued
Residential 91 74		-				
91	ment 0	Residential 0	Establishment 0			Issued 91
91 74	ment 0 0	Residential 0 0	Establishment 0 2	SSTS	# Other Establishment SSTS	91 76
91 74 72	0 0 0	Residential 0 0 0	Establishment 0 2 0	SSTS 2	# Other Establishment SSTS	91 76 76
91 74 72 71	0 0 0 0	Residential 0 0 0 0	Establishment 0 2 0 0	2 5	# Other Establishment SSTS 2	91 76 76 76
91 74 72 71 51	0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Establishment 0 2 0 0 0 0	2 5 16	# Other Establishment SSTS 2 1	91 76 76 76 76 69
91 74 72 71 51 57	0 0 0 0 0 1	Residential	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 5 16 4	# Other Establishment SSTS 2 1 0	91 76 76 76 76 69

			Jurisdiction	on-wide SST	S Questions		
F	# Fulltime Dwellings	# Seasonal Dwellings	# Cluster	# Dwellings served by Cluster	# Other Establish- ments served by	Total # Individual	# Systems w/Operating
Н	w/SSTS 3210	w/SSTS 1930	SSTS 5	SSTS 52	SSTS 26	SSTS	Permit 0
Н	3240	1969	8	60	31	5,166 5,240	0
Н	3262	1993	8	60	32	5,287	4
H	3,295	2,022	8	60	32	5,349	4
H	3300	2032	8	60	33	5,365	4
1	3317	2031	8	60	34	5,382	4
	3309	2043	8	60	34	5,386	4
	3336	2061	9	60	46	5,443	6
	3358	2069	9	60	46	5,473	10

		Co	mpliar	nce				New Qu	uestions	•
Est % all systems Failing (FTPGW) Enter Number only, do not include percent sign or a decimal number	Calculated # of Failing (FTPGW)	Est % all Systems ITPHS	Calculated # of ITPHS	Est % all Compliant SSTS	Calculated # of Compliant	Total % SSTS=100%	# of compliance inspections of Existing SSTS's conducted in your area (private inspector and LGU)	# of Noncompliant properties resolved by connecting to centralized sewer	# of Noncompliant properties mitigated by abandonment or removal of a dwelling	# of Noncompliant properties mitigated through government buyout
12	620	86	4,443	0	0	98				,
11	576	8	419	unknown	#VALUE!	#VALUE!				
10	529	7	370	unknown	#VALUE!	#VALUE!				
10	535	7	374	unknown	#VALUE!	#VALUE!				
10	537	7	376	83	4,453	100				
10	538	7	377	83	4,467	100	175	0	0	0
10	539	6	323	84	4,524	100	148			
9	490	5	272	85	4,627	99	166	0	2	0
9	493	5	274	86	4,707	100	177	0	2	0

		Dept. Responsible for	SSTS [7082.0040 Subp. 4 A (2)]	Department						
Year	LGU	SSTS	Trained Administrator	Head	SSTS Contact	Phone	Email	Address	City	S
2009	Lake County	Planning & Zoning							Two Harbors	
2010	Lake County	Planning & Zoning							Two Harbors	
2011	Lake County	Planning & Zoning							Two Harbors	
2012	Lake County	Planning & Zoning							Two Harbors	
2013	Lake County	Planning & Zoning							Two Harbors	
2014	Lake County	Planning & Zoning							Two Harbors	
2015	Lake County	Planning & Zoning							Two Harbors	
2016	Lake County	Planning & Zoning		trains thrusts	Contraction Streets	100000	the state of the state of	int both	Two Harbors	

State	Zip	Fax	Inspector1	Number	Inspector2	Number
MN	55616	219-604-695	Dec Aurolees			
MN	55616			3187		
MN	55616			3187		
MN	55616			3187		
MN	#####			3187		
MN	#####			3187		
MN	#####			3187		
MN	#####		Don Hunnberg	3187		

ist the C	Cities,	Townships, Ot	her entities a	nd contac	t information	for those wi	th		
heir ow	n SSTS	jurisdiction w	ithin your Co	unty					
Year	County	LGU with Separate	SSTS Contact	Phone	Email	Address	City	State	Zip
2010	Lake	NA							
2011	Lake	NA							
2012	Lake	NA							
2013	Lake	NA							
2014	Lake	NA							
2015	Lake	NA							
2016	Lake	NA							

2016 Tank Report - Lake County												
installer Name	Licens e#	# of Septic Tanks Installed in 2016	ance Systems	Number of Tanks Installed by Home owner in 2016		Address	City	State	Zip Co			
	099	7										
	652	6										
	64											
	613											
	47	11										
	56											
	40	1										
	45	1										
	272											
	284	2										
	110	10										
	407	1										
	90	1										
	288											
	586											
	831											
	731	4										
	75											
	59											
	851											
	124											
	494	3										
	342	1										
	826	2										
	927	3										
	16	1										
	386	2										
Jpdate License Number to the right to add a licensed business	L O											
Jpdate License Number to the right to add a licensed business	L O											
Jpdate License Number to the right to add a licensed business	L O											

2017 SSTS Annual Report



Annual Report for: Athens Township in Isanti County

Please carefully read all instructions provided throughout the questionnaire:

If your jurisdiction <u>does not</u> administer a program to regulate septic systems, please send an email back to the MPCA indicating that your community does not have an active septic system program to Cody Robinson at ssts.projects.mpca@state.mn.us.

If your jurisdiction <u>does</u> administer a program to regulate septic systems, please submit the questionnaire no later than **February 1, 2018**.

Minn. R. 7082.0040 Subp. 5 Reporting requirements for all local programs.

Local units of government that administer SSTS programs must provide an annual report to the commissioner. The report must be submitted to the commissioner no later than February 1 for the previous calendar year.

If you are having trouble navigating the survey, or you do not understand a question, please save your progress and contact Cody Robinson by phone at 651-757-2535 or email at ssts.projects.mpca@state.mn.us.

Please do your best to provide accurate information in the data fields. Without accurate data, there is no way to quantify the great efforts and progress Local Government Units are making throughout the state year after year!



Experiencing Issues?

Save your progress and call Cody Robinson 651-757-2535

- Data accuracy and validation
- More representative data
- Increased process efficiency

2017 SSTS Annual Report

Please ensure the following information can be used to contact the SSTS administrator within your department. The MPCA uses this survey to maintain an annually updated contact list of all local SSTS program administrators statewide.

Definitions:

<u>SSTS Program Contact</u> - an individual who can be contacted at Athens Township for items such as: ordinance administration, permit issuance/review, the receipt and coordination of this survey, and all other local SSTS related questions.

<u>SSTS Inspector</u> - an individual authorized to conduct inspections on behalf of Athens Township. If you have mulitple inspectors, only provide the contact information for one of them.

Department Head - an individual in a supervisory position who oversees the activities of the SSTS program.

Official Contact Information: SSTS Program Contact Jim Braun (permit) ford Nosevoll's Imparities Department Zorong Administration Phone (555-555-5555) NO. 365 SHIP NO. 365 SHO Email pravegravite con DADS TITLE AND PROVIDED MR SECTION SET TO AN Street Address Princeton City State 55371 Zip Fax SSTS Inspector (This is your primary inspector contact information. You will list all authorized inspectors later in the survey.) Name Email Department Head (if applicable) Name Email Experiencing Issues? Save your progress and call Next Save Cody Robinson 651-757-2535

MINNESOTA POLLUTION

- Instructions provided on every page
- Definitions
- Data seeding

2017 SSTS Annual Report	
Please answer the following ordinance specific questions:	
Does your jurisdiction use Alternative Local Standards (ALS) in your ordinance for existing systems? Yes No	
Does your jurisdiction use ALS in your ordinance for New or Replacement SSTS that specifies using a minir vertical separation in allowable areas? Yes No	num of 2' of
Does your jurisdiction use ALS for New or Replacement systems using 2006 rules? Yes No	
Back Save Next Save your p	cing Issues? rogress and call Robinson 757-2535
MINNESOTA POLLUTION CONTROL AGENCY	

text only

2017 SSTS Annual Report	
Does your jurisdiction track the maintenance (pumping) of SSTS? Yes	
No	
Does your jurisdiction require compliance inspections for property transfers? Yes No	
Does your jurisdiction approve SSTS designs BEFORE issuance of a construction permit? Yes No	
At what point during the review process do you most often perform infield soil verifications? Prior to issuing permit During construction	
After construction We do not verify soils	Experiencing Issues?
Back Save Next	Save your progress and call Cody Robinson 651-757-2535

2017 SSTS Annual Report

Number of Construction Permits Issued for Residen	ntial SSTS by System Type:		
Type I - Trench/Rock:			
Type I - Trench/EZ Flow:			
Type I - Trench/Chambers:			
Type I - Seepage or Pressure Beds:			
Type I - Mound:			
Type I - At Grade:			
Type II - Privies, Holding Tanks, & Floodplain Areas:			
Type III systems:			
Type IV systems - Registered Treatment Products:			
Type V systems:			
Residential Operating Permits Issued for:			
Type II Holding Tanks:			
Type IV Systems:			
Type V Systems			
Back		Experiencing Issues? Save your progress and call Cody Robinson 651-757-2535	
MINNESOTA POLLUTION			

2017 SSTS Annual Report

Number of Construction Permits Issued for Other E	stablishment SSTS by System Type:			
Type I - Trench/Rock:				
Type I - Trench/EZ Flow:				
Type I - Trench/Chambers:				
Type I - Seepage or Pressure Beds:				
Type I - Mound:				
Type I - At Grade:				
Type II - Privies, Holding Tanks, & Floodplain Areas:				
Type III systems:				
Type IV systems - Registered Treatment Products:				
Type V systems:				
Other Establishment Operating Permits Issued for:				
Type II Holding Tanks:				
Type IV Systems:				
Type V Systems				
Back		Experiencing Issues? Save your progress and call Cody Robinson 651-757-2535		
MINNESOTA POLLUTION				

203	17 SSTS Annual Report	
Number of Construction Permits Issued for	r Residential SSTS by Flow Volume:	
New Systems		
1-2,499 gal/day:		
2,500-4,999 gal/day:		
5,000-10,000 gal/day:		
Replacement Systems		
1-2,499 gal/day:		
2,500-4,999 gal/day:		
5,000-10,000 gal/day:		
		_
<	Back Save Next	Experiencing Issues? Save your progress and call Cody Robinson 651-757-2535
	MINNESOTA POLLUTION CONTROL AGENCY	

Please enter a valid number for this question text only 2017 SSTS Annual Report Number of Construction Permits Issued for Other Establishment SSTS by Flow Volume: New Systems 10000 1-2,499 gal/day: 2,500-4,999 gal/day: 0 5,000-10,000 gal/day: 0 Replacement Systems 1-2,499 gal/day: 2,500-4,999 gal/day: 5,000-10,000 gal/day: **Experiencing Issues?** Save your progress and call Back Save Next Cody Robinson 651-757-2535

2017 SSTS Annual Report

Numbers of SSTS in your jurisdiction for the following:

Full-time dwellings with SSTS:

1378

Seasonal dwellings with SSTS:

721

Other establishments served by SSTS:

88

Cluster SSTS

Total number of Cluster SSTS:

11

Total number of structures served by Cluster SSTS:

39



MINNESOTA POLLUTION CONTROL AGENCY

Experiencing Issues?

Save your progress and call Cody Robinson 651-757-2535

2017 SSTS Annual Report Please provide answers to the following compliance questions: *Note - do not include the % symbol in your responses. Estimated percentage of all systems in your jurisdiction: Failing to protect groundwater (%) Imminent threat to public health and safety (%) Compliant SSTS (%) 13 Percentage Total (must equal 100%): Number of Existing System compliance inspections conducted in your area (Private & LGU): Experiencing Issues? Save your progress and call Back Next Save Cody Robinson 651-757-2535

New method



New method

2017 SSTS Annual Report Please specify the certified licensed inspectors authorized to conduct work on behalf of Athens Township. Each LGU is required to have at least one inspector. Use the SSTS Search Tool for certification numbers if needed. Inspector #1: Full Name Certification Number Example: C12345 Would you like to add another? Experiencing Issues? Save your progress and call Back Next Save Cody Robinson 651-757-2535 MINNESOTA POLLUTION CONTROL AGENCY

2017 SSTS Annual Report

2017 Tank Report

The MPCA uses this information for the administration of tank fees for licensed SSTS installers across the state. If there were new systems installed in Athens Township last year, you must indicate the number of septic system/performance system tanks installed by each licensed installation business below. If there were not any systems installed by SSTS installers in Athens Township last year, then select "No" at the bottom of this page.

<u>Septic Tanks</u> - include sewage and pump tanks and are counted per tank installed.

<u>Performance Tanks</u> - include tanks from advanced treatment systems (Type IV) and are counted as one (1) tank per household system installed.

Do not include permitted systems that weren't yet installed. Tanks fees are only required for tanks actually installed during the previous calendar year.

To verify license numbers according to business names, use the MPCA's <u>SSTS Search Tool</u>.

You MUST prefix the license numbers with the capital letter "L." (Example: L9999)

Note - we are no longer asking for verification on homeowner installations, just SSTS professionals.

Nu	mber of Septic tanks installed:
Nu	mber of Performance systems:
SSTS Se	arch Tool
Lic	ense Number:
Nu	mber of Septic tanks installed:
Nu	mber of Performance systems:
SSTS Se	arch Tool
Lic	ense Number:

Number of Septic tanks installed:

License Number:

New method

New method

2017 SSTS Annual Report

Thank you for taking your time to help quantify the great efforts made by SSTS local programs throughout the state of Minnesota.

Please print this survey for your records, then click the submit button below to send your responses to the MPCA.



Experiencing Issues?

Save your progress and call Cody Robinson 651-757-2535



Overview

Topics

Local unit of government permitting structure, responsibilities, and reporting questions

Web-based data collection – old methods vs. new

Process management and data organization

Communicating our data to the public

Using data for planning purposes

Process management

Email invites

Subject: 2017 SSTS Annual Report for {username}

Due Date: February 1, 2018

Hello {Q3a_Inspector_Information_SSTS Contact},

This is the 2017 SSTS Annual Report Survey for {username} in {Q1_County_Name} County.

The following link is unique to your jurisdiction is most equipped to complete the questionner.

Click here to begin questionnaire

If you have any questions, do not hesitate to page in the questionnaire.

Sincerely,

Cody Robinson

Minnesota Pollution Control Agency Subsurface Sewage Treatment System Prog 520 Lafayette Road St. Paul, MN 55155 cody.robinson@state.mn.us 651-757-2535 (direct) 651-297-8683 (fax)



wed 12/6/2017 10:46 AM
Cody Robinson 4

SSTS Annual Report 2017 for Stearns County

To Robinson, Cody (MPCA)

Due Date: February 1, 2018

Hello

This is the 2017 SSTS Annual Report Survey for Stearns County in Stearns County.

The following link is unique to your jurisdiction. You may forward this email to whomever is most equipped to complete the questionnaire. All instructions are embedded in the survey - please carefully read all instructions.

Click here to begin questionnaire

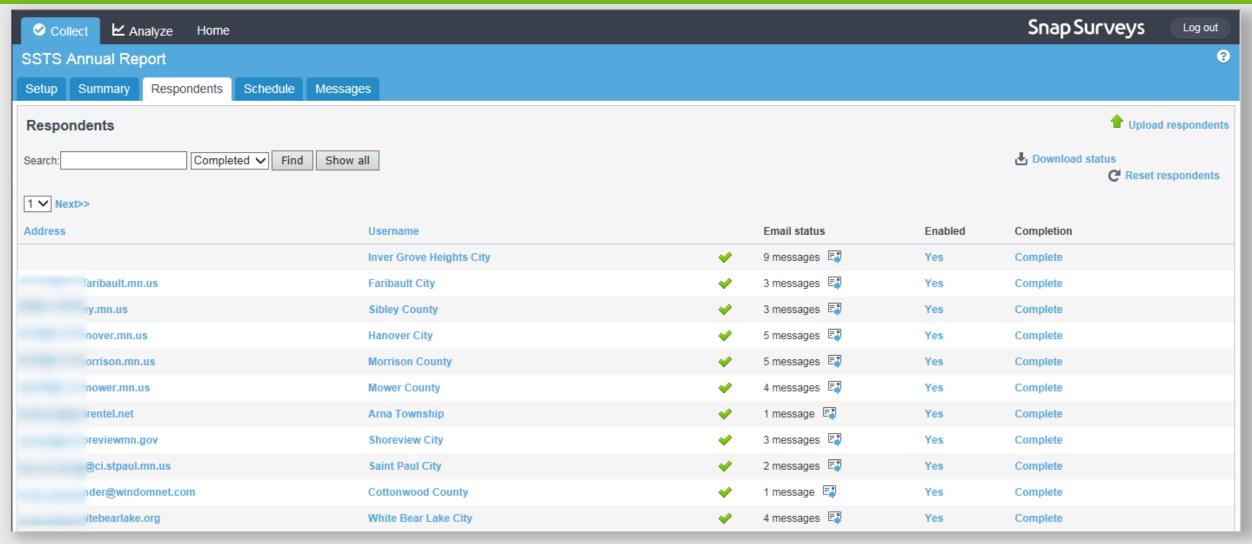
If you have any questions, do not hesitate to call Cody Robinson at 651-757-2535. My contact information is also included at the bottom of each page in the questionnaire.

Take care,

Cody Robinson

Minnesota Pollution Control Agency Subsurface Sewage Treatment System Program 520 Lafayette Road St. Paul, MN 55155 cody.robinson@state.mn.us 651-757-2535 (direct) 651-297-8683 (fax)

Process management



Process management

Subject: 2017 SSTS Annual Report for {username}

Due Date: February 1, 2018

Hello (Q3a Inspector Information SSTS Contact),

This is the 2017 SSTS Annual Report Survey for {username} in {Q1 County Name} County.

The following link is unique to your jurisdiction. You have the option to start the survey and finish later. You may also forward this email to whomever is most equipped to complete the questionnaire. All instructions are embedded in the survey - please carefully read all instructions.

Click here to begin questionnaire

If you have any questions, do not hesitate to call Cody Robinson at 651-757-2535. My contact information is also included at the bottom of each page in the questionnaire.

Sincerely

Subject: 2017 SSTS Annual Report for {username}

Due Date: February 1, 2018

Cody Robinson

Minnesota Pollution C Subsurface Sewage T Update 520 Lafayette Road St. Paul, MN 55155 651-297-8683 (fax)

Hello (Q3a Inspector Information SSTS Contact).

cody.robinson@state. the software. Please make sure license numbers begin with a capital "L" before the number with no spaces (e.g. L4321). If you get a mes commissioner no later than February 1 for the previous calendar year." 651-757-2535 (direct) license number is invalid, please remove them for the survey, and email the license number, total tanks, and total performance systems to cody.robinson@state.mn.us. I apologize for this inconvenience, and appreciate your patience!

This is an automated reminder that you have not yet completed the 2017 SSTS Annual Report Survey for (username) in (Q1 County Na

The following link is unique to your jurisdiction. You have the option to start the survey and finish later. You may also forward this email to

Click here to begin questionnaire.

If you have any questions, do not hesitate to call Cody Robinson at 651-757-2535. My contact information is also included at the bottom of the questionnaire.

Sincerely.

Cody Robinson

Minnesota Pollution Control Agency Subsurface Sewage Treatment System Program 520 Lafayette Road St. Paul. MN 55155 cody.robinson@state.mn.us 651-757-2535 (direct) 651-297-8683 (fax)

Automated reminders

Subject: SSTS Annual Report for {username} OVERDUE

Due date: OVERDUE - Response needed

Dear SSTS Administrator for {username}

Are you intending to give your SSTS program back to {Q1_County_Name} County?

If so, please indicate you are no longer operating an SSTS program by responding to this email. Administering an SSTS program is optional at the city/township level, so if this applies to you, we need your confirmation to update our records.

If you intend to keep administering an SSTS program for {username}, you must do so in accordance with Minn. R. 7082.0040 Subp. 5, which reads as follows:

A known issue we are having is with the tank reporting tool toward the end of the questionnaire. A select few license numbers are being k "Local units of government that administer SSTS programs must provide an annual report to the commissioner. The report must be submitted to the

It is very important that we get the data in a timely matter to provide SSTS data in support of any inquiries that come out of the upcoming legislative

Click here to complete your report

most equipped to complete the questionnaire. All instructions are embedded in the survey - please carefully read all instructions If you haven't made contact yet, please respond to this email or call Cody Robinson at 651-757-2535 as soon as possible. Your cooperation is greatly appreciated.

Respectfully,

Cody Robinson

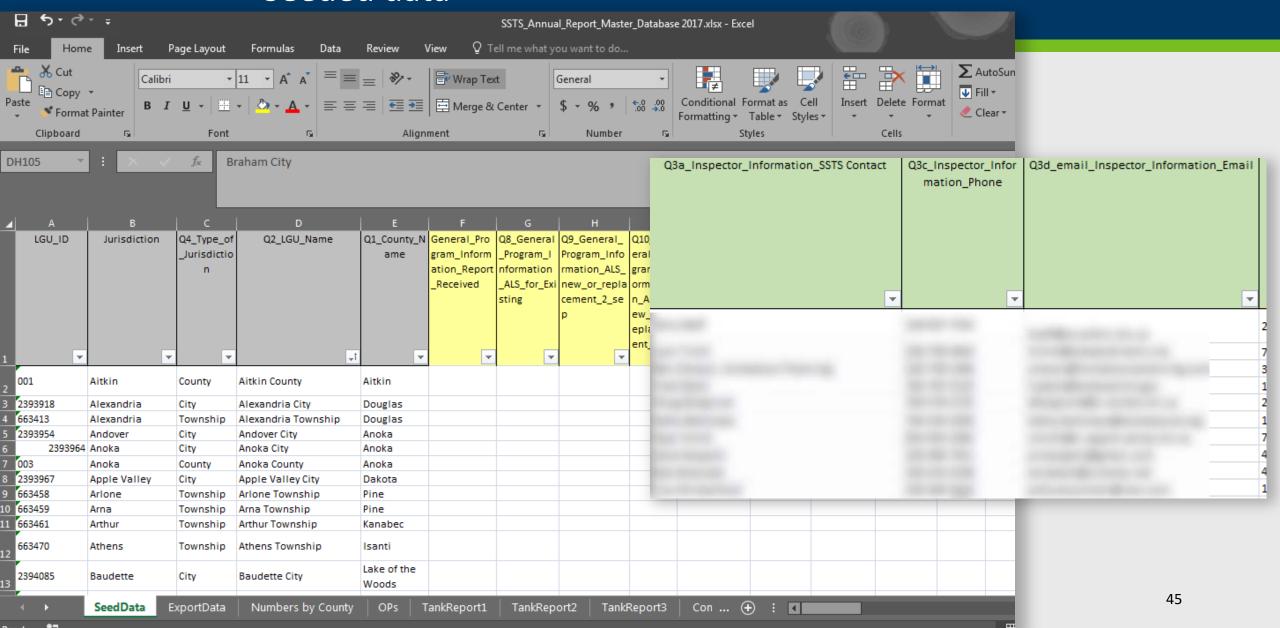
Minnesota Pollution Control Agency

Subsurface Sewage Treatment System Program

cody.robinson@state.mn.us Direct: 651-757-2535

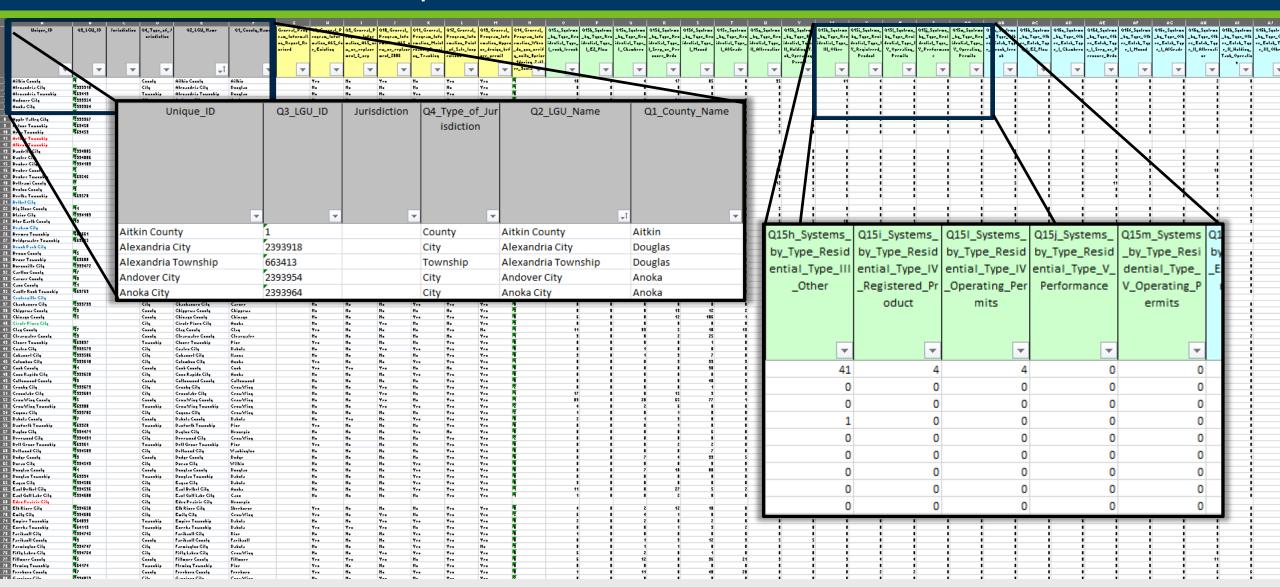
Seeded data

Data organization



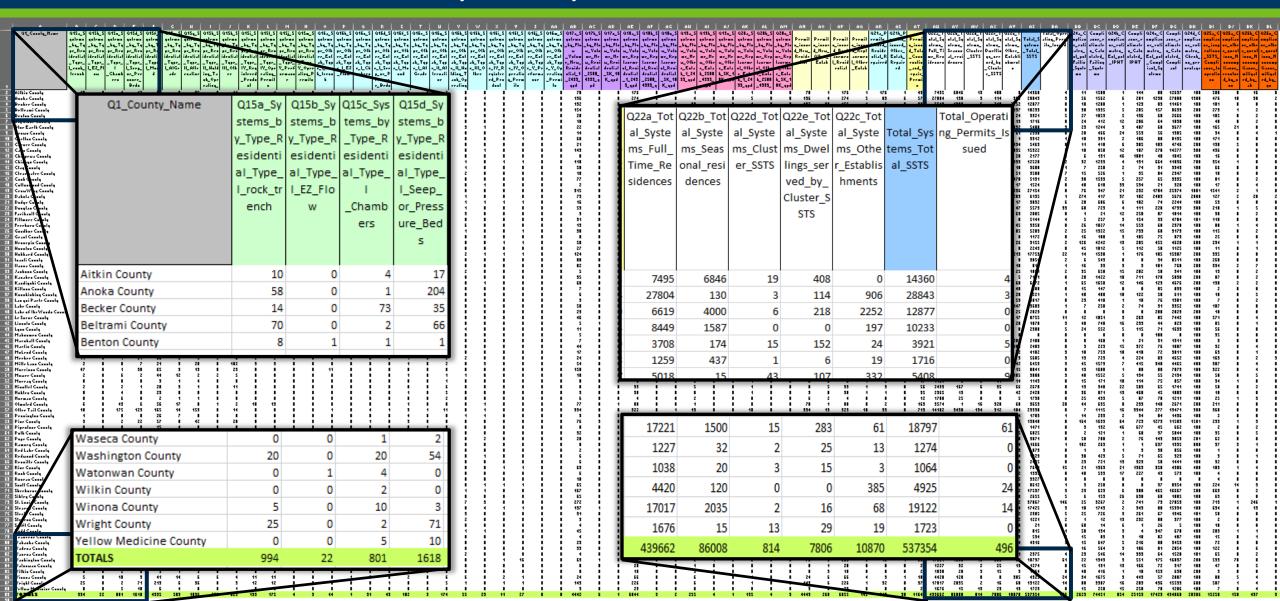
Data organization

Data export



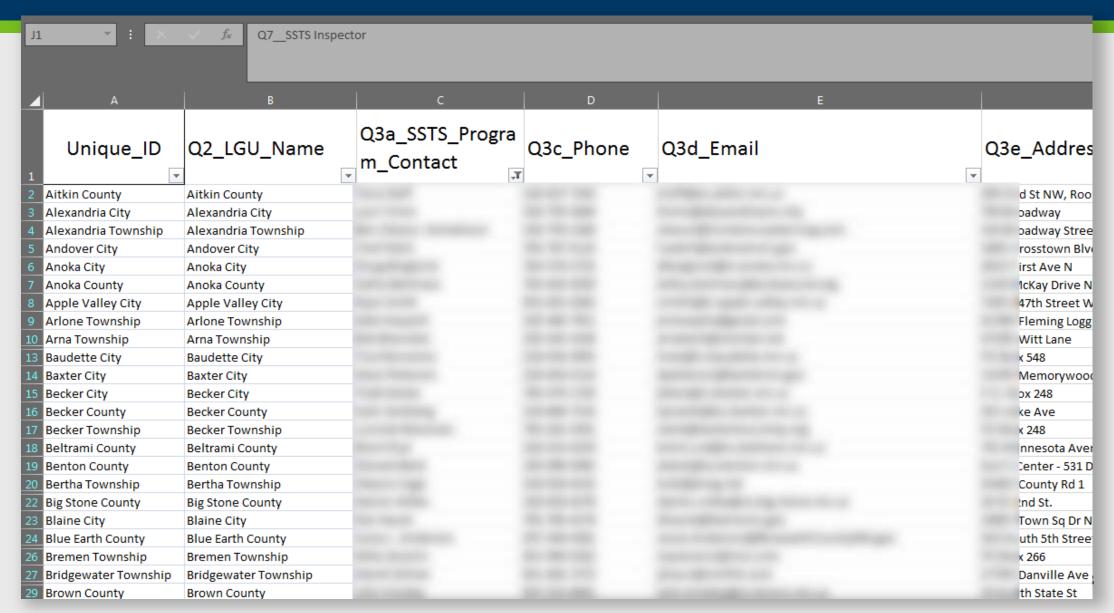
Data organization

Consolidated by county



Data organization

Contact Info



Overview

Topics

Local unit of government permitting structure, responsibilities, and reporting questions

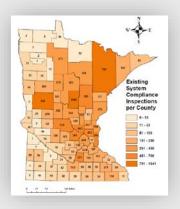
Web-based data collection – old methods vs. new

Process management and data organization

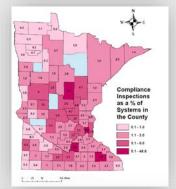
Communicating our data to the public

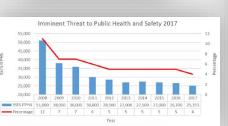
Using data for planning purposes

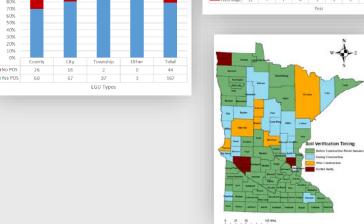
Communicating data

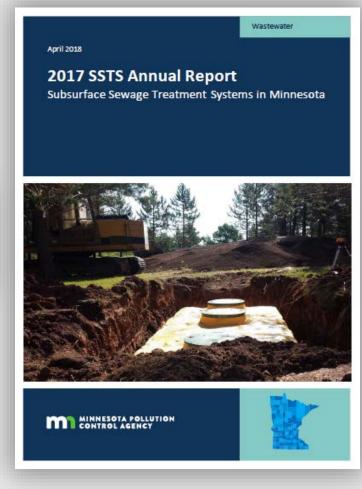


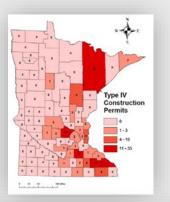
Point of Sale (POS) Inspection Triggers - 2017

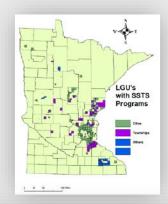




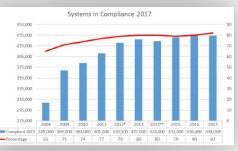












System Type	System Subtype	Residential	Other Establishment	Grand Total	% Change From 2016
Туре І	At-Grade	509	9	518	+14%
	Chamber Trench	801	31	832	- 4%
	EZ Flow Trench	22	1	23	- 33%
	Mound	4,335	102	4,437	+2%
	Rock Trench	994	. 44	1,038	- 12%
	Seepage or Pressure Beds	1,618	43	1,661	+6%
Type II		1,096	174	1,270	+10%
Type III		829	29	858	+16%
Type IV		133	11	144	+ 23%
Type V		4	0	4	- 20%
Grand Total		10,341	444	10,785	+3%

Communicating data

April 2018 **2017 SSTS Annual Report** Subsurface Sewage Treatment Systems in Minnesota





The MPCA is reducing printing and mailing costs by using the Internet to distribute reports and information to wider audience. Visit our Contributors/acknowledgements website for more information

MPCA reports are printed on 100% post-

Contents

Systems by type...

SSTS reported by type...

Total number of systems with operating permits......

Acronyms and definitions
Executive summary
Annual report responses
Number of subsurface sewage treatment systems

Photo credit MPCA photos

Minnesota Pollution Control Agency (MPCA)

Subsurface Sewage Treatment Systems (SSTS

staff would like to thank each of the local governmental units that provided accurate

information regarding their local SSTS proj

for the SSTS Annual Report, Without accur

data, there would be no way to summariz

activities and the accomplishments made i

Thanks to Barb Olafson, Brandon Montgor

Aaron Jensen, Nick Haig, and Gene Sodert

for their support, contributions, and peer

Minnesota Pollution Control

520 Lafayette Road North | Saint Paul, MN

651-296-6300 | 800-657-3864 | Ocuseum

This report is available in alternative forma

review of the content within this report

Reported number of SSTS by was tewater flow volume New and replacement SSTS... Tracking maintenance pumping of septic systems Property transfer-compliance inspection requirements... Existing SSTS compliance inspections .. Number of noncompliant properties connected to cent

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Executive summary

In 2017, 211 Local Governmental Units (LGUs) submitted a Subsurface Sewage Treatment System (SSTS) Annual Report to the Minnesota Pollution Control Agency (MPCA). The 211 reporting programs consisted of 86 counties, 83 cities, 39 townships, and 3 other permitting authorities. Just over 537,000 SSTS were reported across Minnesota, representing an estimated 36.8 billion gallons of wastewater treated by SSTS per year. In 2017, LGU

The majority of SSTS installed in 2017 were for res including 4.437 mounds and \$18 at-grades. There 144 Type IV systems, and four Type V systems inst system types, see pagenine of this report. A total-2,500 and 10,000 gallons per day (gpd) with sever 5 000 and. The total number of installed sewage t

greatest number issued by St. Louis County (706).

Of the 10,906 SSTS installed in 2017, 6,197 were re existing sewage "disposal systems" that are replac (FTPGW), or if the system is an imminent threat to permits, conditional use permits, variances, and co these systems brought into compliance is estimat LGUs, 14 of which are counties, reported that they Regarding property transfer requirements, 167 LG

Of the reported 537,354 existing systems in Minn inspections in 2017, Crow Wing County reported to abandoned or removed in 2017. A grand total of 1

> observed since 2002 suggest improvement s). This means over one-third (35%) of Minr s in 2007 to 434 068 systems in 2017.

usi Report 2017 + April 2018

Introduction

Each year, LGUs with SSTS programs are required to complete a report documenting their SSTS activities, Local SSTS programs occur at four governmental levels: 1) county, 2) city, 3) township, and 4) other or special purpose units (i.e., Water Management District, Joint Powers Board), Minn. R. ch. 7082.0040 specifies the content of the SSTS Annual Reports and requires them be submitted by February 1 each year for the previous calendar year

The MPCA sent out the annual report questionnaires electronically in December 2017 to each known local SSTS program by email. Known LGUs received the 2017 Annual Report instructions and an individual questionnaire in a web-based questionnaire format.

The purpose of the SSTS Annual Report is to: 1) obt and 2) summarize relevant information into a state help track the number of sewage tanks installed installers. Tank fees were approved by the Legislatu

This report generally models the format used in the broad analysis of SSTS trends over the past 16 years the reporting LGUs in their annual reports. Some o number and types of permits issued. Other data is o each jurisdiction.

Seven annual reports from known local programs: included two cities, four townships, and one other SSTS within their jurisdiction, despite having an SST. Of the reporting LGUs, 97% indicated they approve which is required by rule. The six jurisdictions that any time during permitting or during system constitute requirements for verifying soils.

5575 Annual Report 2017 • April 2018

Annual report responses

Out of 218 known SST5 programs, 211 LGUs submitted an annual report 2017. All counties, except Ramsey County, submitted an annual report. Ramsey County is not required to submit an annual report due to their entire jurisdiction being served by city and township LGU programs. A map showing locations of known SSTS programs is shown in Figure 1.

Figure 1. Map showing the locations of county, city, township and other kn



In December 2017, requests for annual report data were sent electronically to each of the previously identified SSTS administrators who provided an email contact. For LGUs that did not provide an email contact, a number of phone calls were made to obtain information necessary to send a report electronically. The overall response rate decreased from the previous year. We received 219 reports received out of 222 known SSTS programs in 2016 and 211 reports out of 218 known programs in 2017. This was somewhat anticipated with the web-based reporting software requiring completed rep from each LGU. Continued follow-up with the seven non-reporting LGUs and future correspondence is

There were 86 counties, 83 cities, 39 townships, and three other permitting authorities that make up

Number of subsurface sewage treatment systems

In 2017, 211 LGUs reported a total of 537,354 SSTS in Minnesota. There were 10,906 construction permits issued for both new or replacement systems and 770 SSTS repairs for a grand total of 11,676 SSTS related permits. Over a period of 16 years, from 2002 to 2017, LGUs reported that over 187,766 construction permits were issued (Table 2).

The highest number of SSTS was reported in St. Louis County (37,067); the fewest number of SSTS was reported in Swift County ((21) note - Swift County provided a response inconsistent with 2016. They will be contacted to verify accuracy in total SSTS reporting). The highest number of septic system onstruction permits issued in 2017 was in St. Louis County (706); Grant and Chippewa counties came in with the fewest number of construction permits (0). Township, city, and other jurisdiction report data were added to their respective counties to tabulate this information

Appendix A1 contains a county-by-county list of the following information: 1) total number of SSTS reported, 2) number of construction permits issued in 2017, 3) number of construction permits issued over a period of 16 years, 4) number of compliance inspections of existing SSTS conducted countywide

Number of SSTS per County 0 - 5091 5092 - 10182 10183 - 15273 3034 167318855 15274 - 20365 20366 - 25456 1845 2300 25457 - 30547 30548 - 35638 2371 3080 2882

Communicating data

Use GIS data platforms to create descriptive maps and illustrate numbers per County

Existing System Compliance Inspections per County 0 - 10 11 - 50 51 - 100 101 - 250 251 - 450 451 - 700 TZ 701 - 1641

Communicating data

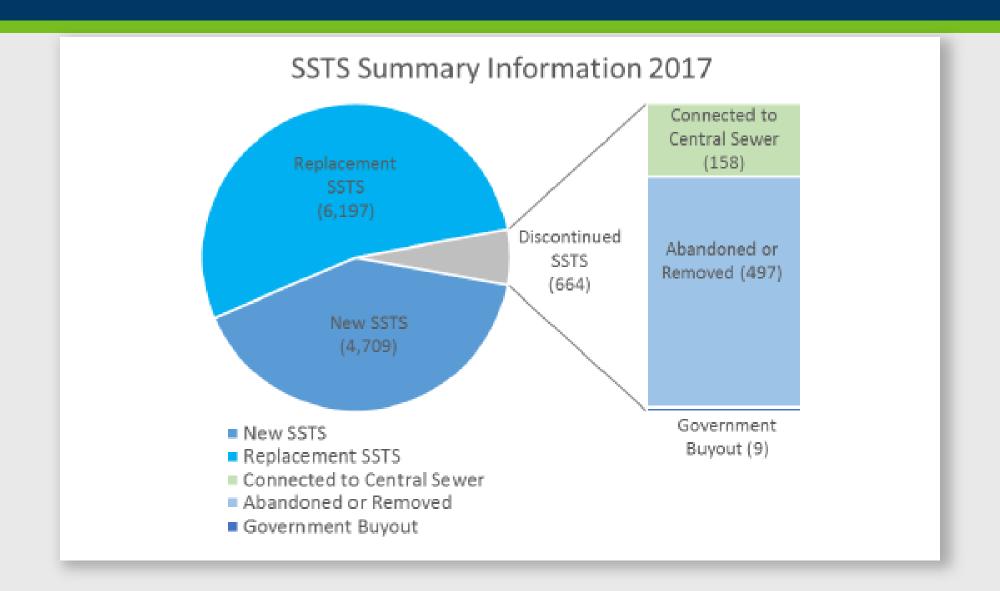
Use GIS data platforms to create descriptive maps and illustrate numbers per County

0.1 0.1 2.7 0.6 0.1 1.6 2.9 0.3 1.9 1.4 2.8 1.4 1.8 4.1 Compliance 5.7 Inspections 2.1 as a % of 3.6 2.1 3.9 Systems in 0.2 1.6 the County 0.1 - 1.0 0.7 0.4 1.1 - 3.0 0.4 3.1 - 5.0 0.2 1.7 5.1 - 48.6 1.3 2.2 0.5

Communicating data

Use GIS data platforms to create descriptive maps and illustrate numbers per County

Communicating data



Overview

Topics

Local unit of government permitting structure, responsibilities, and reporting questions

Web-based data collection – old methods vs. new

Process management and data organization

Communicating our data to the public

Using data for planning purposes

MINNESOTA POLLUTION CONTROL AGENCY

520 Lafayette Road North St. Paul, MN 55155-4194

SSTS local program requirements questionnaire Subsurface Sewage Treatment System (SSTS) Program

Doc Type: Questionnaire

Purpose: The Minnesota Pollution Control Agency (MPCA) seeks to provide assistance to local governmental units (LGUs) in administering and implementing effective SSTS Programs statewide. Recognizing our partnership and common goal of wellfunctioning SSTS Programs, we intend to conduct LGU assessments around the state to work through various program elements necessary to be successful. This questionnaire shall serve as a guide to facilitate these assessments while being transparent in communicating local outcomes and agency expectations. Please note the outcome of an LGU assessment is not for punitive action, rather to initiate a foundation for local SSTS Programs to achieve success while meeting minimum rule requirements.

Assessment instructions: Please prepare and submit the following materials to the MPCA staff member conducting your assessment at least two weeks prior to the scheduled date of assessment.

- A full copy of your most recent ordinance.
- One sample SSTS construction permit with all relating documentation (permit application, site evaluation report, design report, inspection report, any local addendums, etc.).

All items found on this questionnaire are derived from minimum mandatory requirements in Minn. R. ch. 7082. The primary purpose for obtaining these answers is for the agency to identify how we can best provide assistance. Therefore, please do your best to provide accurate responses to each question. The questionnaire is broken down into categories reflecting the four critical elements needed for LGUs to have an SSTS Program: ordinance requirements, enforceability, annual reporting, and permitting/inspection program. Underneath each question identifies the method used by the MPCA to evaluate LGU performance, along with a short justification outlining the need and reasonableness of each rule requirement. Please provide specific answers in the blanks provided for the questions that ask for them. For each "no" response, please include a brief plan of action indicating steps that can be taken in order to satisfy that requirement. The plan of action is meant to initiate discussion with MPCA assessment staff. For this reason, this questionnaire is recommended to be completed and filled out electronically. Space is provided at the the end of this

If you have any questions on the use of this form or about LGU assessments in general, please contact your regionally assigned If you have any questions on the use of this form of about Loo assessments in general, please contact you regionary assigned SSTS Compliance and Enforcement (C&E) staff member. For help finding your assigned C&E contact, use the SSTS Field Staff Map (found on the MPCA website at https://www.pca.state.mn.us/water/ssts-staff.)

*If you answer "No" to any of the following questions, please provide a plan of action to facilitate further discussion.

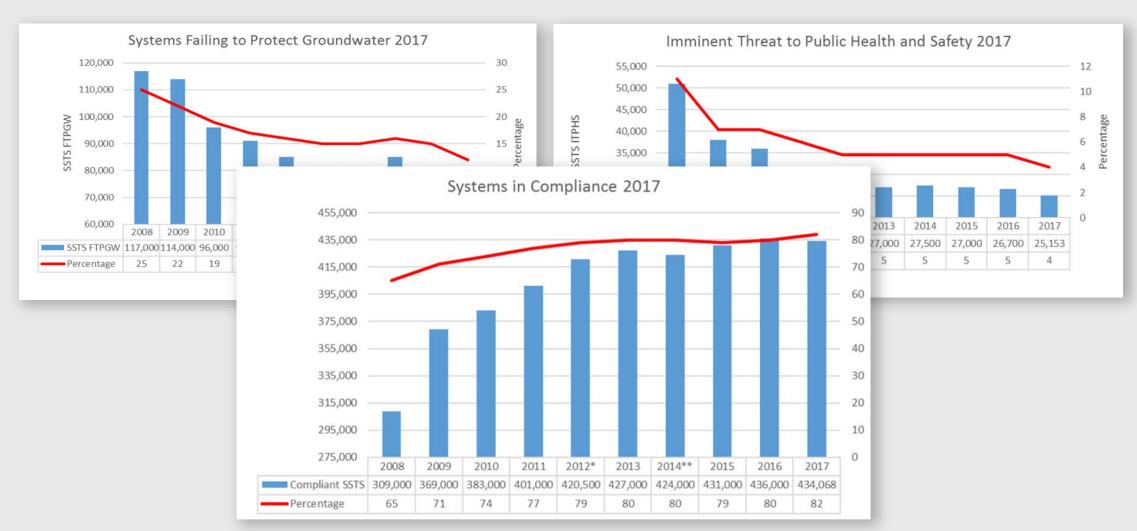
*If you answer "No" to any of the following queen ordinance? Yes No	Yes	-No
De vou have an ordinance.	Yes	-No
1. Counties only: Have you adopted an ordinance meeting the requirements of 7080-7082 that applies to all land area within the county not covered under a city or township program? (Minn. R. 7082.0040, subp. 2A) land area within the county not covered under a city or township program? (winn. R. 7082.0040, subp. 2A) 1. Counties only: Have you adopted an ordinance meeting the requirements of 7080-7082 that applies to all land area within the county not covered under a city or township program? (Minn. R. 7082.0040, subp. 2A) 1. Counties only: Have you adopted an ordinance meeting the requirements of 7080-7082 that applies to all land area within the county not covered under a city or township program? (Minn. R. 7082.0040, subp. 2A) 1. Counties only: Have you adopted an ordinance meeting the requirements of 7080-7082 that applies to all land area within the county not covered under a city or township program? (Minn. R. 7082.0040, subp. 2A) 1. Counties only: Have you adopted an ordinance meeting the requirements of 7080-7082 that applies to all land area within the county not covered under a city or township program? (Minn. R. 7082.0040, subp. 2A) 1. Counties only: Have you adopted an ordinance meeting the requirements of 7080-7082 that applies to all land area within the county not covered under a city or township program? (Minn. R. 7082.0040, subp. 2A)		
Agency evaluation method: Check Will yook place. View a copy of the provided of the provided approved by MPCA and when that review took place. View a copy of the place since last review. If no, follow up in three months, taken place since last review. If no, follow up in three months, taken place since last review. If no, follow up in three months. Justification: This is a requirement derived from State statute (Minn. Stat. § 115.55, subd. 2). Having an taken place since last review. If no, follow up in three months. State statute (Minn. Stat. § 115.55, subd. 2). Having an taken place stat		

Data and planning

- No annual report submitted
- Not verifying soils or issuing permits without conducting review
- Can prioritize based on program size

Data and planning

Trend analysis



Questions?

Cody Robinson

cody.robinson@state.mn.us

