AGENDA HUMAN SERVICES COMMITTEE

111 S. Michigan Ave., Room 200, Saginaw, MI 48602

<u>Monday, January 9, 2023 – 4:00 p.m.</u>

- Members: Gerald Little Chair, Tracey Slodowski Vice-Chair, Michael Webster, Lisa Coney, Christopher Boyd
- Others: County Clerk, Controller, Civil Counsel, Finance Director, Personnel Director, Board Staff, Media
- I. Call to Order
- II. Welcome
- III. Correction/Approval of Minutes (November 7, 2022 Attached) (Note: December HSC Cancelled)
- IV. Public comment
 - Speakers limited to 3 minutes
- V. Agenda
 - 1. Approval of 2023 Committee Calendar (Attached)
 - 2. Christina Harrington, MPH, Health Officer, Health Department, re:
 - 1-17-1 Presenting its 2020 2022 Annual Report
 - 3. William Stanuszek, Director, Mosquito Abatement Commission, re:
 - 1-17-2 Presenting its 2022 Annual Report for review and discussion
- VI. Miscellaneous
- VII. Adjournment

MINUTES HUMAN SERVICES COMMITTEE 111 S. Michigan Ave., Room 200, Saginaw, MI 48602

Monday, November 7, 2022 – 4:00 p.m.

- Present: Michael Webster Vice-Chair, Tracey Slodowski, Cynthia Winiecke, Carl Ruth
- Absent: Gerald Little Chair
- Others: Robert Belleman, Dave Gilbert, Julie Wheeler, Betty Jo Krosnick, Waylon Earnesty, Maggie Dougherty, Sheila Salo, Julie Darnton, Stacie Gath, Joanne Silvia, Dawn Bellinger, Mark Rankin, Matt Shane, Karly Creguer, Bridget Beckman, Sandra Lindsey, Suzy Koepplinger, Marissa Sawdon, Mary Williams, and others
- I. Call to Order ---Webster at 4:00 p.m.
- II. Welcome
- III. Correction/Approval of Minutes (September 6, 2022 Attached) ---Moved by Winiecke, seconded by Ruth, to approve. Motion carried.
- IV. Public comment
 - Speakers limited to 3 minutes

Multiple MSU Extension advocates, parents, volunteers and employees spoke of the resources and programs that are offered through the organization. The speakers included Julie Wheeler, Betty Jo Krosnicki, Waylon Earnesty, Maggie Dougherty, Sheila Salo, Julie Darnton, Stacie Gath, Joanne Silvia, and Dawn Bellinger. Each ended their individual public comment with a request for funding from Saginaw County for FY 2023.

- V. Agenda
 - 1. Sandra Lindsey, CEO, Saginaw County Community Mental Health Authority (SCCMHA), re:
 - 11-22-1 Providing the SCCMHA Annual Update pursuant to agreement via PowerPoint
 ---Moved by Ruth, seconded by Slodowski, to receive and file. Motion carried. (Receive & File)
 - 2. Matt Shane, Interim Associate Director Field Operations, MSUE, re:
 - 11-22-2 Providing information and to advocate for continued MSUE funding
 ---Moved by Ruth, seconded by Slodowski, to receive and file. Motion carried.
 (Receive & File)
- VI. Miscellaneous ---None
- VII. Adjournment ---*Moved by Ruth, seconded by Winiecke, to adjourn. Motion carried; time being* 5:18 p.m.

Respectfully Submitted, Michael Webster, Committee Vice-Chair Suzy Koepplinger, Committee Clerk

	2023 CALENDAR Saginaw County Board of Commissioners							
	www.saginawcounty.com PRIMARY STANDING COMMITTEES							
	Human Services Committee		Courts & Public Safety Committee			County Services Committee		
	Monday 4:00 pm		Tuesday 4:00 pm		Wed	Wednesday 4:00 pm		
	January	9	January	10	J	anuary 11		
	February	6	February	7	Fe	bruary 8		
	March	6	March	7		March 8		
	April	3	April	4		April 5		
	Мау	1	May	2		May 3		
	June	5	June	6		June 7		
	July	31	July			July		
	August		August	1		August 2		
	September	5 *(Tue)(4:00)	September	5 *(4:30) Due to Labor D	ay Sep	tember 6		
	October	9	October	10	C	October 11		
	November	6	November	7		vember 8		
	December	4	December	5	Dec	ember 6		
REGULA	R STAN		IMITTEES			BOARD SE	ESSION	
Budget/Audit Committee		Labor Relations Committee			Executive Committee			
Thursday	4:00 pm	Monday 4:00 pm		Tuesday 4	Tuesday 4:00 pm		Tuesday 5:00 pm	
January	12 *(4:00)	January	12 *(Thu.)(4:30) January		January	3, 5, 17	
February	/ 9	February		February	14	February	21	
March	n 9	March	13	March	14	March	21	
Apri	l 6	April	10	April	11	April	18	
Мау	/ 4	May		May	9	May	16	
June	8	June	12	June	13	June	20	
July		July		July		July		
Augus		August		August	8	August	15	
Septembe		September		September	12	September	19	
Octobe	· ,	October	. ,			October	17	
Novembe		November		November	14	November	21	
Decembe	r 7	December	11	December	12	December	19	

Budget Sessions are subject to the call of the Chair. There is no Board Session in July. Legislative Committee & Intergovernmental Cooperation Committee meet as called and posted.

Schedule may be amended in the event of insufficient or additional agenda items. Please call (989) 790-5267 for confirmation of meeting dates or visit <u>www.saginawcounty.com</u>. All Committees meet at the Saginaw County Governmental Center, 111 S. Michigan Ave., Saginaw, MI, 2nd Floor, Room 200 - Board Chambers unless otherwise noted.

K:\COMMISSIONERS\BOARD & COMMITTEES SCHEDULES\2023 Committee and Board Meeting Schedule Calendar.docx 11-2-22/sek/mcs

Christina A. Harrington, M.P.H. Health Officer

Saginaw County HEALTH DEPARTMENT Caring experts, advocates & champions. For health. For everyone.

January 1, 2023

Chairman Board of Commissioners County of Saginaw 111 S. Michigan Ave. Saginaw, MI 48602

1-17-1



edicalDirector

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Delicia J. Pruitt, M.D., M.P.H., F.A.A.F.P.

SERVICE

RE: REQUEST TO RECEIVE AND FILE DEPARTMENT'S ANNUAL REPORT

Dear Chairman:

Please permit this letter to serve as my request to present to the Human Services Committee regarding the following matter:

• To receive and file the 2020-2022 Health Department Annual Report

I am request time at the Human Services Committee January meeting to present the Department's Annual Report found here: <u>https://heyzine.com/flip-book/4169181ca5.html</u>. Thank you for your consideration on this matter.

Respectfully,

mistine Harington

Christina A. Harrington, MPH Health Officer



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Post Pandemic ANNUAL REPORT

A Retrospective on FY 2020-2022

Post Pandemic ANNUAL REPORT

A Retrospective on FY 2020-2022

THANK YOU!

Throughout the challenges and loss suffered by many during the COVID-19 pandemic, we experienced moments we refer to as "COVID blessings" – positive things that happened because of COVID and our role in responding to this virus and its unprecedented spread throughout our community and world.

In addition to our amazing staff of health professionals, one of the health department's biggest COVID blessings came from the true, authentic and lasting partnerships formed in 2020-2022. Saginaw County delivered a robust, collaborative response to COVID-19 that has been recognized statewide. It engaged the health department, hospitals, healthcare providers, first responders, law enforcement, media, faith-based community, nonprofit sector, schools, universities, pharmacies, businesses, and citizens. Here are just a few examples of partnerships in action:

- SCHD staff vaccinated CMU School of Medicine students with some of the first doses we received in Saginaw County. These students, in turn, worked to vaccinate the public at nearly all of vaccination events under the direction of Steve Vance, MD, FACEP, associate dean.
- Closure of The Dow and postponement of the Saginaw Spirit hockey season in 2021 paved the way for the arena floor to be used for Saginaw County's largestever drive-thru vaccine event. We could not have done it without local law enforcement, Michigan National Guard, additional nurses and resources from Covenant and Ascension St. Mary's, and volunteer nurses in the community.
- We could never have reached thousands of our community's elderly to schedule vaccine appointments by phone and give them the protection they needed from COVID-19 without the amazing support of the Saginaw County Commission on Aging and United Way of Saginaw volunteers.
- Molina Healthcare graciously brought food and coffee trucks to a number of our vaccination clinics to provide free food and drinks to staff and residents receiving vaccinations.
- There is a special place in heaven and in our hearts for school administration and office staff. We know the COVID-19 lift was heavy. You were thrust into roles you neither imagined nor deserved with reporting, serial testing, contact tracing, and communication. Thank you for partnering with us to protect your school communities so well.

The list of people and organizations we now consider partners is simply too big to list. You know who you are...and we thank you! Because of lasting partnerships, we can now tackle some of our biggest health challenges and work together to make Saginaw healthier and more resilient.

FROM THE CHIEF HEALTH OFFICER

In March 2020 when a global pandemic and the likelihood of shutting down our world became a reality, no one could have predicted the true impact of COVID-19 on every aspect of our lives.



More than two years later, we have the benefit of knowing more about the virus, how to mitigate its spread, and how to minimize its severity. The health department has built a new and better relationship with our community based on communication and guidance, not fear. Our goal has been to share accurate information with Saginaw County so that each resident, school, business, and agency can make informed choices.

Saginaw County has been through the worst of the pandemic. Many are asking us "What happens next" now that COVID-19 cases, hospitalizations and deaths are on the decline – yet the virus, and potential variants, are still very real and becoming one among many respiratory illnesses we face each winter.

While COVID-19 defined 2020 and 2021 for us, it hasn't altered our commitment to safeguarding Saginaw from ALL diseases. Rather, our determination to lead the way in building a healthier Saginaw is stronger than ever before.

We believe the best way to prevent, mitigate and prepare for any future "events" is to work collaboratively with others to build a healthier Saginaw...one that is more resilient so that if or when we experience the next wave or disease, we experience less severe illness, lower hospitalization, and fewer deaths.

As we work together with a growing list of community organizations to bring life to BWell Saginaw, we want to take a look back at the last two years and Saginaw County's COVID-19 response. In doing so, we hope to shed light on the unprecedented partnerships that came out of the response. ...partnerships that are crucial to making a healthier, more resilient Saginaw our new normal.

Christina Harrington, MPH, Chief Health Officer and Director

FROM THE MEDICAL DIRECTOR

Without the unique partnership between the Saginaw County Health Department and CMU Health, I wouldn't even be here as medical director! I joined the department in January 2020. As I soon learned, preparations and planning for a possible COVID-19 public health emergency were already well underway. While we didn't get word of our first case of COVID-19 until March 21, the health department team was already "on it," quickly working to shift resources away from many of our regular services to COVID-19 response.

Part of my role in that preparation was leading a Medical Command & Control team with our healthcare partners in the county. Having this in place to coordinate efforts and create standards of care for COVID-19 was vital and a large part of Saginaw's success.

Our efforts evolved as scientific knowledge about the virus grew, testing supplies became more available, and as the promise of a vaccine came into view. By the end of 2020, we were working on emergency vaccine distribution efforts and laying the groundwork to administer thousands of COVID-19 vaccines a week – all of this while continuing to center health equity in our response and with our limited resources.



Throughout the pandemic, the health department staff worked around the clock to keep the community as safe as possible. I'm not sure many people truly understand how small but mighty this team is! But I know our entire community is grateful for our dedication and sacrifices.

One good thing I see that came out of the pandemic is a greater overall appreciation for public health – from our healthcare partners, businesses, schools, and residents. Thank you for trusting our information, seeking our guidance, and valuing our work. We have so much to accomplish moving forward. With your continued support, we pledge to continue to safeguard Saginaw.

Delicia Pruitt, MD, MPH, FAAFP Medical Director

COVID-19 RESPONSE

Surveillance

Investigations

Staff reassignment: Throughout the pandemic, either Saginaw County Health Department staff – many reassigned from their normal roles – or Michigan Department of Health and Human Services (MDHHS) staff called Saginaw County residents who tested positive for COVID-19 (or their family members) to complete case investigation interviews.

During these calls, case investigators provided information so people could monitor their symptoms and get medical care when necessary. They also shared guidance on how to prevent the spread of illness to family or community members. Finally, they gathered information about where residents may have gotten the virus and who they likely exposed during their infectious period. This helped SCHD to find common sources of exposure and identify close contacts who were exposed and should be contacted by our contact tracing team.

Staff had conversations with tens of thousands of residents about their COVID-19 illness or exposure, which continues even today with mySaginawHealth – our custom webbased self-reporting app. At the height of the pandemic, with more than 200 positive cases reported daily, this process was challenging!

Outbreak Management

One health department communicable disease nurse named Susie coordinated thousands and thousands of outbreaks in Saginaw County's long-term care, school, business, congregate and healthcare settings. She tracked the status of every outbreak for 28 days, reported to the state, and provided guidance and direction to enhance mitigation on these hard-to-manage situations.

Data Collection

The community demand for COVID-19 data was understandably strong! But initially, it was terribly incomplete. Hospitals, longterm care facilities, schools, employers – even the health department – struggled to collect data on a disease that never existed before, had no diagnosis code, no test, and no presence in any database system. Already cumbersome state and federal systems had to expand rapidly. Questions asked during case investigations changed constantly as capabilities and the demand for data grew.

Contact Tracing

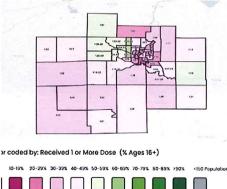
Non-nursing staff took over much of the heavy lifting to reach non-household close contacts exposed by others to COVID-19. In addition, they reached out beyond 14 days to do wellness checks to determine if people were recovering from their illnesses. Much like case investigations, staff spoke with thousands and thousands of residents – many of whom were NOT happy about being exposed or being contacted by the health department.

Data Analysis and Reporting

Various agency database systems reported COVID-19 data differently, requiring the health department to continuously monitor, collect, and interpret while sharing daily. We reported Saginaw County's case numbers, positivity rates, ages, and ethnicity daily on saginawpublichealth.org and on Facebook. When available, we reported hospitalization rates due to COVID, ages, number of people on ventilators, vaccination rates by age/ race/ethnicity/geography. We often use global data to forecast and report the possibility of case spikes and the presence of variants.

Out of the struggle came several valuable tools, including Michigan's mistartmap.info, the vaccine dashboard, the CDC's community tracker, and the Saginaw County Health Department's mySaginawHealth.org.





Communications

The need for internal and external communications though and beyond the pandemic were far beyond anything the health department had ever experienced or staffed.

Answering Questions from the Public

We reassigned all staff when we created a COVID-19 hotline to answer the flood of questions coming to us from residents, business owners, and partners. We also added a coronovirus section to our website and focused all posts to COVID-related material on our social media accounts.

Contracting with Professional Communicator

The need for timely communications – and the flow of misinformation – was evident before the discovery of our first case. We contracted with a local communications firm The Barckholtz Group to help us with email updates, social media posts, guidance materials, and information campaigns.

Facing Our Community

Facebook Live presented us with a great way to talk face-to-face with our community throughout the pandemic. For 63 straight Wednesdays at 10am, we shared case information, responded to tough questions, and provided guidance on important topics like gatherings, in-person learning, masking, and so much more. Our goal was to help everyone make informed choices without fear or panic.

Informing Staff

The way COVID-19 announcements were made by the state directly to the media before local public health departments proved to be challenging. Often our frontline staff was fielding questions from the public before administrative staff were even aware of announcements. We had to be creative and offer one another grace often.

School guidance

OVID-19

SCHD administrative staff worked closely with all public and parochial schools to support in-person learning wherever and whenever possible, providing oneon-one guidance to superintendents based on local community spread, executive orders from the state, and with support for athletic antigen testing, test-to-stay attendance, and continuous guidance when needed for masking, cohorting, social distancing, and more. We also placed health resource advocates (HRAs) in schoools to help with COVID-19 and more.

COVID-19

Return to School Toolkit

OVID-19

0

Restaurant, Venue and Entertainment Support

Health department staff worked tirelessly to support restaurants, banquet facilities, concession stands, wedding planners, movie theaters, bowling alleys, and all other entertainment venues in interpreting and understanding continuously changing and confusing executive orders for operation throughout the pandemic based on indoor/outdoor restrictions and capacity requirements.

COVID-19 RESPONSE

Emergency Preparedness & Safety

Public health leadership

Prior to our first case, SCHD had already gathered together a Medical Command & Control team of physician leaders from our hospitals and other health centers to coordinate community response, standards of care, testing, and more. This was an important step in Saginaw's collaborative response.

A separate Incident Command team provided oversight on everything from vaccination clinics to emergency orders and emergency contingency housing for residents who had nowhere to recover from COVID-19 without exposing others.

Throughout the pandemic, we had the benefit of Lt. Mark Przybylski, director of Saginaw County's Office of Emergency Management (OEM). His dedication to helping us with housing, vaccine clinic locations and logistics, May's 2020 flood, liaison with Michigan's National Guard, and so much more made him an invaluable member of the COVID-19 response team.

Personal protective gear

The demand for PPE was overwhelming at the start of the pandemic, as was the response from our community in finding and donating PPE. In late March 2020, SCHD issued the first of six emergency orders, requiring that all donations of PPE be coordinated through the OEM so it could be distributed efficiently to healthcare setting where the need was greatest.

Vaccine Administration

Getting ready to vaccinate

Our first vaccine shipment arrived in late December 2020, with first shots given by SCHD on December 18 to health department staff. Our local hospitals also received their own doses and were invaluable in the vaccination effort. The goal was to start vaccinating members of our community as soon as the supply was delivered – and we were!

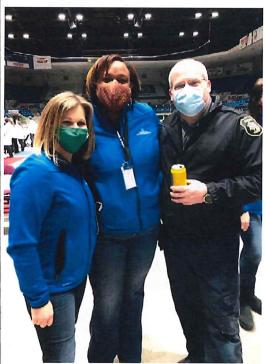
With initial supplies limited, our first priorities were healthcare workers not employed by the hospitals and our most vulnerable residents - the elderly and most compromised by underlying conditions - thousands of which required phone calls to schedule their appointments. Most health department clinics were designed to be drive-thru for both COVID safety and elder safety. On February 11, we held the county's largest ever drive through clinic at The Dow. We also vaccinated at the former Sears Automotive Building, at local churches, schools, fire departments, pavilions, and several dozen other locations around the county. SCHD delivered about 20% of the vaccines in Saginaw County, providing coordination and keeping our lens on equity and accessibility for all.

Our small team of public health professionals vaccinated all day, every day, for 20 weeks, providing first, second, and booster doses! And we couldn't have done so many clinics in so many locations without CMU medical students, Michigan National Guard, and volunteer nurses from the community.



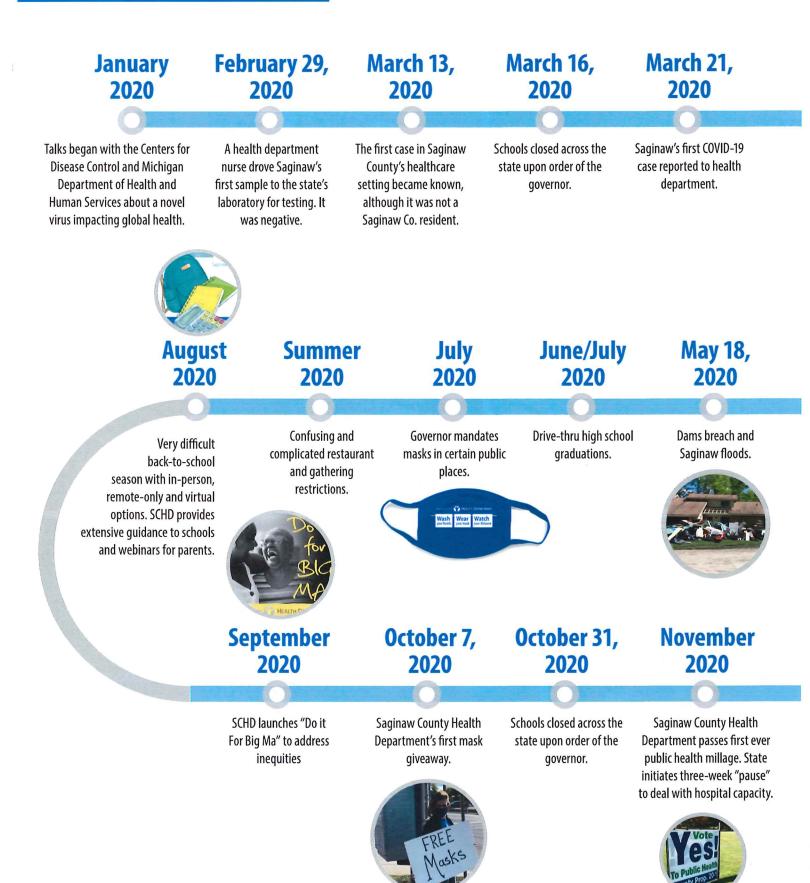


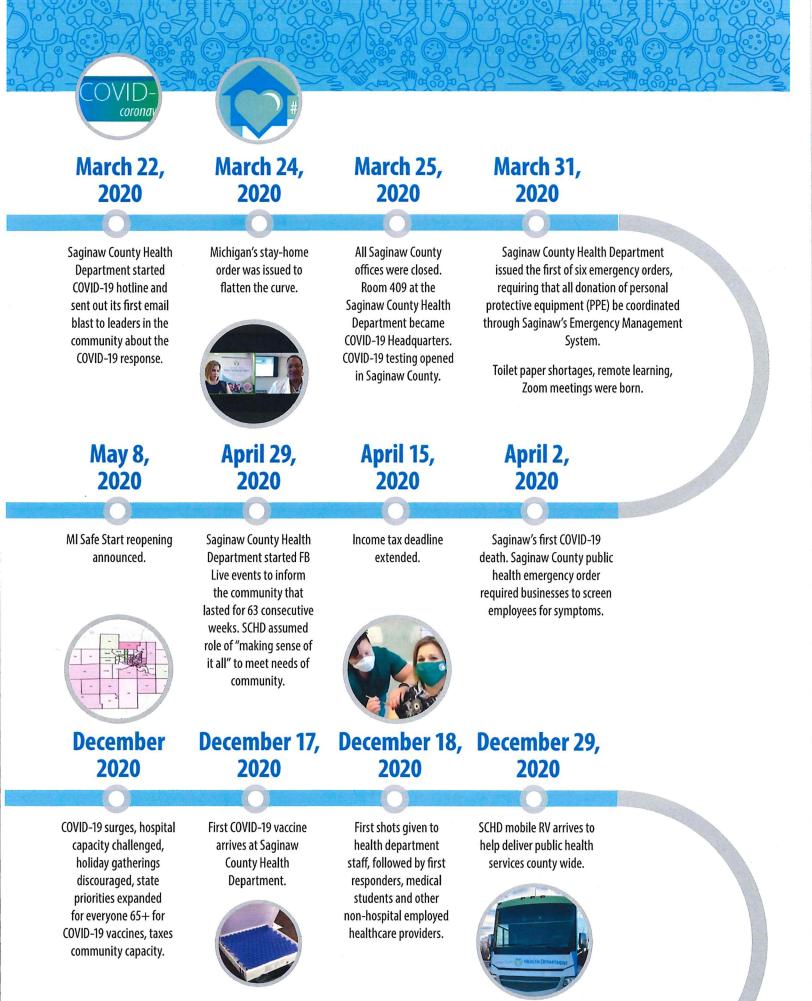






TIMELINE





TIMELINE



	May 21, 2021	May 11-June 30, 2021	April 2021	April 11, 2021
	Lt. Governor Gilchrist comes to SCHD vaccine clinic at Saginaw Arts & Sciences Academy.	SCHD converts former Sears Department Store into vaccine clinic. Vaccine demand declines dramatically. COVID-19 boosters start.	SCHD launches mySaginawHealth.org for vaccination self- scheduling.	Vaccine demand peaks in Saginaw County, with providers delivering more than 10,000 doses weekly.
				August/
	June 2021	June 2021	Summer 2021	September 2021
CETVO	SCHD launches vaccine hesitancy campaign, including a physician phone bank on WNEM TV5.	State removes remaining COVID-19 restrictions but continues face mask and gathering orders. Nearly 53% of Saginaw's eligible residents are vaccinated.	Delta variant impacts Saginaw County.	Most county schools resume in-person learning, adopting test-to-stay protocol because of Delta variant. SCHD research conducted on school data shows primary mode of transmission is within households, not in the classroom.
GET YO	UR VACCINE	SAGINAW		

New Vocabulary, Thanks to COVID-19



February 11, January 22, January 15, March January 2021 2021 2021 2021 2021 SCHD and Health & Saginaw County's largest SCHD begins vaccinating Saginaw County's first ever Athletic testing begins **Community Connected host** ever drive-through school staff. drive-through vaccination at Saginaw's schools. church vaccination clinics vaccination clinic at The Dow clinic at former Sears SCHD receives grant to Automotive drive thru. throughout Saginaw. provide health resource advocates to help schools with testing, health promotions, and public health best practices. December March 2021 2022 2022 **Omicron variant impacts** Saginaw County's Saginaw County. **BWell Partner Coalition** launches message of hope and resilience to

BWELL Saginaw

- Essential worker
- Critical infrastructure
- Executive orders

PCR

move beyond COVID-19.

- PPE
- Pause

Surge

Social

"pods"

- "Flatten the curve"
- Herd immunity
- The 3 Ws: Wash your hands, watch your distance, wear a mask

COVID-19 BY THE NUMBERS

tonfirmed COVID-19 county coun

15,000

Doses of COVID-19 vaccine administered by SCHD in first quarter of 2021 alone at 52 clinics, including counties largest ever drive-thru clinic on the arena floor at The Dow

50,000

Doses of COVID-19 vaccine administered as of March 4, 2020 by all Saginaw County vaccine providers – ending the quarter with 80,000! Consecutive weeks SCHD nurses vaccinated residents all day, every day alongside CMU medical students, Michigan National Guard medics and nurse volunteers

20

The amount of doses administered by SCHD public health nurses compared to other providers at as many as 36 different locations. In turn, SCHD willingly and graciously responded to 110% of all vaccine misinformation, complaints and questions about the process

20%

Public health millage passed during pandemic, thanks to Yes! to Public Health committee and its outstanding job educating our community about health department needs.



61,000 Residents boosted

2

SCHD helped give a second life to the old Sears Department Store at Saginaw's Fashion Square Mall in the summer of 2021, using it to further COVID-19 vaccine efforts AND help families catch up on important preventive health measures like childhood immunizations and hearing/vision screenings



401,472 SCHD website views in 2020

<u>63</u>

Number of consecutive weeks chief health officer Christina Harrington, MPH, and medical director Delicia Pruitt, MD, appeared on Facebook Live to provide guidance and answer questions



Rock concerts attended by SCHD staff to test stage crew for Korn concert.

12,000

Calls made to schedule senior citizens 65+ for COVID-9 vaccination with the help of Saginaw County Commission on Aging and United Way of Saginaw volunteers

ADDRESSING **HEALTH EQUITY**

The health department brought together religious and community organizations to form the Health and Community Connected (HCC) workgroup. The mission of this group was to better the health of the Saginaw community by providing resources, prevention services, and health education to people who reside in Saginaw's most socially vulnerable areas. Members who joined SCHD in this effort included NAACP-Saginaw Branch, SCHD, Saginaw African American Pastors, CMU Health, St Joes Catholic Church, Covenant HealthCare, Ascension St. Mary's, Great Lakes Bay Health Centers, STARS Transportation, and Saginaw Community Foundation.

Though HCC, we orchestrated vaccine clinics at area black and brown churches in zip codes indicating the highest hesitancy and lowest vaccine rates. We enlisted support from Great Lakes Bay Health Center, Ascension St. Mary's and Covenant to staff clinics at Mt. Olive Missionary Baptist, Victorious Believers, St. Joseph Catholic Church, and New Birth Missionary Baptist.

From September – December 2020, SCHD launched a "Do it for Big Ma["] public information campaign and teamed up with Health & Community Connected (HCC) members to address inequities and bring resources to people most impacted by COVID-19.

At one point early in the pandemic, 35% of our black and brown populations were impacted by COVID positivity. Thanks to a generous grant from the Saginaw Community Foundation, we spearheaded a communications campaign targeted at our minority communities. As a result, we brought the percentage down to 19%, which is representative of our community as a whole.

SUPPORTING FAMILIES VIRTUALLY

The pandemic posed challenges to the traditional model of providing benefits for WIC participants and enrolling new participants. SCHD WIC staff adapted swiftly to develop new virtual service delivery models to support participants throughout COVID-19.

All through the pandemic, WIC continued to provide essential services to help families and children be their healthiest selves. WIC staff re-imagined their process and began completing appointments over the phone and meeting clients outdoors for contact-free pick-ups of breast pumps, EBT cards, and Project FRESH coupons.







PASSING COUNTY'S FIRST-EVER PUBLIC HEALTH MILLAGE

"Thank you, Saginaw!" We are so pleased that our community understands the value of the health department and is willing to invest in steady, predictable and adequate funding enabling us to do the job of safeguarding everyone in Saginaw with passage of a \$2.4 million millage to help pay for:

- Sustained operation of 1-2 mobile units returning services to out-county areas and enhancing services countywide beyond the health department building on Michigan Avenue.
- A full-time epidemiologist to delve into Saginaw County's higherthan-average cancer, asthma, heart disease, and mortality rates.
- Instead of ONE nurse, a team of nurses for disease surveillance and investigation of more than 100 diseases including influenza, Hepatitis A, and COVID-19.

- New equipment and increased testing capacity for the public health laboratory.
- Enhanced public communications for reliable health information and education.

We remain deeply grateful to all who voted yes, particularly those who came out early in support of our efforts including many of our county commissioners, our Board of Health, Covenant, Ascension St. Mary's, CMU Health, NAACP, Saginaw County Chamber of Commerce, Saginaw County Medical Society, and other stakeholders including superintendents, business owners, and volunteers.

Despite our differences on so many other issues, it's gratifying to know that our community is united in wanting Saginaw County to be an even better place to live, work, play and be well.

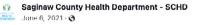




HEALTH MESSAGING

Communicating to an Information Hungry Community





COVID-19 isn't a political issue ... it's a health crisis that has impacted our community in unimaginable ways. We're all on the same side when it comes to beating COVID-19! Thanks for sharing your voices, Senator Horn and Representative O'Neal.



00 25

2 comments 2 shares

Saginaw County Health Department - SCHD was live. SO attine 2 hrs . 3

COVID-19 Status Update, Quarantine Guidance, and Millage Information





Some of our communications efforts were supported by local grants from The Saginaw Community Foundation and United Way of Saginaw County.





Segness Courty MEALTH DEPARTMENT

Update for \$/25/2021

Recognizing the Vital Role of Primary Care **Providers in the Vaccine Effort**

While It has been our duty our honce, and our chullenge to communicate regularly and advantationship linning/such the paratemic, the fraudh department learn has been unreventing to an position. The Segmen research and to include their primar care privates in COVID-19 testing and care decision making. And is miner at our

COVENANT "Trusting the science ...leading by example"





Supported by a grant from the Saginaw Community Foundation

and of your service, the kinds of the lost to prior observer.

We are working to get more doctors evolved as vaccine providers as they can give shole right in the office.

For those who don't have a segular doctor, we are working hard to create new way for pira to served with solar periodicisans, introducions, tanky doctors, intervals, a well as public health experts as you can have those important conversations.

 Molphang learns to go out vito local businesses to lask to en
 Scheduling an opcoming phone bank where trainlears can to
 to their vaccine questions and concerns.
 Chering energy FB Low presentations. ierts can call in for Amazon

In stellion, if you have questions or concerns about vaconation, please feel hos to email us at scheliftsagnaecounty com and we will respond with answers

Review of MIOSHA's New Emergency Rules on Wednesday's FB Live

In case you maked yestenday's Segman Grunty maxim Department Update as todar's MIODHA excessor reveneng new entergency name, we will reven a and highlight some communic toulances FAGs during tempinary FB cive event at 19 a.m.

- Atong with our require COVID-18 uponte, we will go over some of the following
- Is intervaling status protected teach intervaling?
 Can employees an employee proceed on the intervaling of the intervaling of the intervaling of the intervaling?
 An physical between all required?
 Can beginning police common mask exercise?

Be nore to add your questions in the comments anchor six we can address them during the event. Next, it yes aren't also to participant at 10 a.m., our FB line events are arresponenced for easy vessely table.

Norovirus: One More Good Reason to WASH YOUR HANDS!

COVID-18 son't the only struct countering in Segment County right new. The health department has confirmed an existence of non-zone — the stomach "bug" country country, diamines, and econact pairs.

Your number cirel icie of detense against nonvenue is hand externey. Did you know the analy waiting your hands trapently supersisty after using the batterion and before sating.

Reducts the number of people and get size with deathed by 23-bD/s
 Reduces identical interact propins with measured interacting systems by 30%.
 Reduces advantage of the size of the siz

te balant hand washing is one of THEE most important preventative measures as re fears to five with COVID-19 – along with staying home when you don't feer wall.

It's also important to note that GI symptoms are also summon with COVID-18

Be more to laids to prove dentise if you denoting vormiling, idlamination, or stormach paier as No or shiel care help you sort through your next asson.

COVID-19 Weekly Vaccine Data

The data trends continue to kick promising, as for dark new Laurei and positivity sales deri

Table 1: Percent of Sepinary Cou to preven of age and order that have received at want I vaccore asse 65 years of age and older that have received at least 1 vaccess done 78.9%

Table 2: Saginaw County Doses Administered	County Doses	SCHD Doses
lagnae County Readents - 1st Dose	811.589	1
Inginate County Residents - 2nd Dose	47.001	1
Ional Dosess Green	146.630 tup-4.190	27.734 (18%)

QUESTIONS?

Throughout the pandemic, our leaders, staff and COVID-19 hotline answered hundreds of thousands of questions from residents, schools, and businesses hungry for information. Because COVID-19 was a novel virus, we didn't always have answers. And because the virus changed, our answers often had to change as well. Our goal, however, was steadfast – transparency, authenticity, and accessibility. As your trusted source of information, we remained dedicated to the concept of "informed consent." We provided you with information to the best of our ability so that YOU could make choices and take appropriate action for you and your family

Here is just a small sampling of questions asked and answered!

What are the sympto of COVID-19?	How long does	When can l get a booster shot?	What do I do if I test positive?	already gotten the vaccine and	
Shouldn't we all continue to work remotely for a while longer?	COVID live on surfaces?	What is the difference between PCR and antigen testing?		she's younger and healthier than me. That's not fair. Am I being left behind?	
You said it would be two weeks. Why are so many things still closed?		Why so little vaccine in Saginaw County compared to communities around us?			
Does the vaccine make women infertile?	Where can I go for testing?	How many people are we allowed to invite to our wedding?		Can we pass out candy at Halloween?	
Hospitals must be getting money for saying these deaths are caused	My allergies are acting up. I don't need to test for COVID, right?	Where can we get more PPE?		How do I report a gym open for business when all others are following the rules?	
by COVID. How much do they get?	Why is there still no cou wide mask mandate	nty- ? How long do positive employees need to isolate?		e	

How many breakthrough cases do we have?

Who is considered an essential worker?

Can my dog catch COVID from me?

What is the best way to screen employees daily for COVID symptoms?

Where do clergy fall in the vaccine rollout?

How many Saginaw County residents are vaccinated?

If someone has COVID, how long should they wait until they get a vaccine?

What if you quarantine for 5 days after exposure, then get tested at Day 5, but don't get your test results for a day or two? Do you go to work?

Are we in a surge?

Do medical facilities still have to enforce the mask mandate and social distancing?

Can we please talk about masks in schools during this monster surge? Why can't you direct schools to require masks to keep our kids safe?

What is the difference between isolation and quarantine?

What's better – natural

immunity or immunity

from vaccination?

When will we be able

to visit our loved ones

in nursing homes?

Are retail grocery store workers in Phase 1B?

My 21-year-old daughter is going out of town in 2 weeks to a different state for an internship. Can she get the vaccine there?

Where are you coming up with your vaccine priorities? Please vaccinate our schools before the prisons.

I am so afraid. I don't know if I should send my kids to school or not?

Why do healthcare workers still go to work if they have symptoms?

> How long until we reach herd immunity?

How many people are allowed in a "pod" for Thanksgiving? Aren't there a lot of false positive tests? False negative tests?

> How long does immunity from the vaccine last?

My favorite restaurant won't take reservations for their igloos. Can I sit inside instead?

How do you test for variants?

I'm 64, when will I be able to get vaccinated?

What vaccine is more effective at preventing breakthrough infections?

> I lost my vaccine card. Where can I get another?

> > l was taking Tylenol for a pulled muscle while l received the second vaccine. Will it still be effective for me?

Why does the CDC keep changing its recommendations for isolation and quarantine? Are we wearing masks to protect ourselves or others?

When are the 12-15-year-old boosters coming?

Do I need to show a negative COVID test results to travel to _____? I leave tomorrow, where can I get that test?

> Why am I being coerced into getting the vaccine? It was created too quickly. It wasn't tested enough.

If a student tests positive in a classroom, do we have to deep clean the whole school?

> Do you recommend wearing gloves to the grocery store?

> > What's the difference between COVID, RSV and the flu?

There are magnets in the vaccine. Don't get it! The case numbers you're reporting can't possibly be true with so many people doing home tests. Everybody I know has COVID. Why aren't you doing something?

Shouldn't we wash all our fruits and vegetables with soup and water?

If someone has COVID, how long should they wait until they get a vaccine?

Does singing in church spread COVID?

How are they keeping people safe in ERs when both COVID and normal patients come through those doors?

Has anyone looked into getting mobile vans out into the community to distribute the vaccine

in neighborhoods?

Are hospitals at full capacity?

I do not understand how we can justify a pause in the J&J vaccine given the apparent complication rate is so low compared to the death rate from COVID.

Is it safe to go to the movie

> Are you calling people for vaccine appointments?

Are the antibody medicines being used in our area? If so, where? How can we get them?

theater?

I got my first Moderna shot and had an allergic reaction. I was told not to get a second one. How protected am I?

If someone is fully vaccinated, do they have to quarantine after international travel?

What can I do for my 3-year-old when she goes to daycare?

> When can we open the dressing rooms in our store?

Parents from my son's school are hosting an unofficial prom. Is that legal?

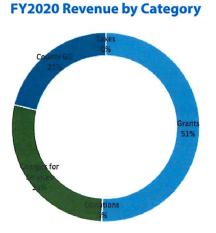
FINANCIALS

Stagnant and declining resources over the last 15 years have been a fact of life for local public health departments across Michigan, including Saginaw County. In 2020-2022, SCHD received more than \$4 million in COVID-19 funds to help pay staff, deliver the vaccine at clinics, purchase supplies, communicate, engage with area churches and other community partners, and so much more. The funds came as 16 separate grants with 16 different reporting requirements and guidelines. Regardless, a major lesson learned during the COVID-19 pandemic is this: the injection of adequate, flexible funding empowers us to respond in the best, most innovative ways to meet the needs of Saginaw County. It is now more evident than ever before that local public health needs to have flexible funding to continue to be adaptive to the ever changing needs of public health in our communities.

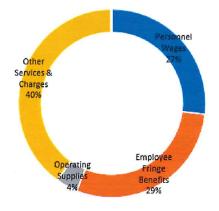




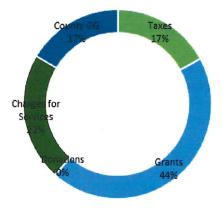
Financial totals showing percentages:



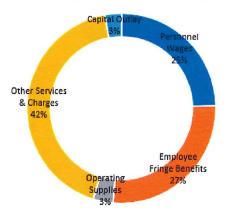
FY2020 Expenditures by Category



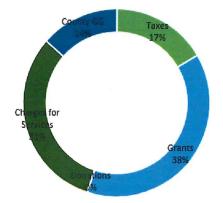
FY2021 Revenue by Category



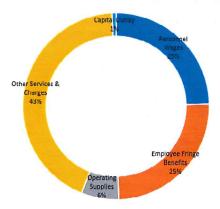
FY2021 Expenditures by Category



FY2022 Revenue by Category



FY2022 Expenditures by Category



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BWELL Saginaw

Moving Beyond COVID-19 to Build a More Resilient Saginaw

If COVID-19 has taught us anything, it's that overall health plays a major role in how diseases impact a community. Designed as a multi-organizational effort to guide Saginaw County forward in becoming one of Michigan's Top 25 healthiest communities, "BWell Saginaw" is gaining support and producing tangible benefits for our community.

BWell Saginaw shines a spotlight on three significant health issues facing the people who live, learn, and work in Saginaw County:

- Obesity/chronic disease management
- Mental health/substance use
- Maternal/child health

BWell Saginaw 5K Race/Walk, Family Fun Run and

Healthy Living Expo – our inaugural event on October 1 brought together hundreds of runners, walkers, cheerers, and interested community members. Planning for this event was a great experience, including receiving support from so many generous sponsors including Covenant HealthCare, Ascension St. Mary's, Great Lakes Bay Health Centers, United Way of Saginaw County, Central Michigan University College of Medicine, Saginaw Co. Community Mental Health Authority, Saginaw Co. Parks & Recreation, Molina, Health Advantage Credit Union, and Family First Credit Union.



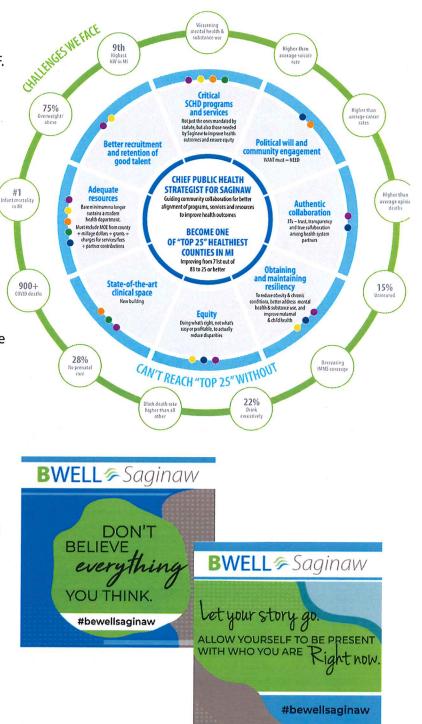


Receiving \$150K grant from Michigan Health Endowment Fund to pilot wellness initiative in

schools – Step Up & BWell Saginaw "challenges" will commence throughout our school districts in January 2023, thanks to a generous grant from MHEF. Our school health resource advocates (HRAs) will lead student teams in logging their exercise minutes and eating a healthier diet while competing against other schools for prizes. In the end, the real prize is improving the health of our community by reaching families and children.

Community Information Exchange (CIE) – New moms in Saginaw County lack systematic access to the wide variety of support available to them resulting in poor outcomes and underutilized services. SCHD is rebuilding a coordinated CIE connecting every mom, every baby, every time to health department staff dedicated to improving access to health services and normalizing maternal, infant, and child care. There is no manual, moms have questions, and everyone referred by our providers and birthing hospital will receive a check-in to answer questions and to meet their needs (program enrollment, appointments, resources). Saginaw's maternal and child health partner coalition have come together ready to "wrap our arms" around families, and this CIE is the enabling platform we need to be successful.

Mental health/substance abuse campaign – Our community has benefited from a robust social media campaign focusing on self-care tools for mental health and substance use. Another phase of the campaign includes anti-stigma billboards enlisting the support of influential community members to help us share important messaging. Another grant for 2022-23 will enable the campaign to grow and continue reducing the stigma surrounding mental health & substance use.







Anyone can struggle with mental health. **BE KIND. BWELL.**

THE BWELL SAGINAW PARTNER COALITION **INCLUDES:**

Ascension St. Mary's

CMU Health

Covenant HealthCare

Great Lakes Bay Health Centers

HealthSource Saginaw

MiHIA

Saginaw Community Foundation

Saginaw County Community Mental Health Authority

Saginaw County Health Department

Saginaw Intermediate School District

United Way of Saginaw County



Tell us what you think BWellSaginaw.org

Paper copies of the survey are also available in the health department lobby.

Complete this 10-minute survey and be entered to win a \$250 visa gift card!

SCAN Me!

BWELL∕≈ Saginaw

The BWell Saginaw Partner Coalition

collected more than 1,500 responses to the 2022 Community Health Assessment representing a wide cross section of the county's population. The data is currently under analysis and will be shared community-wide in early 2023.

OTHER HEALTH DEPARTMENT SERVICES PIVOT

Like other county buildings, we closed the health department and were not able to offer traditional healthcare services from our clinics during the pandemic. Many non-nursing staff were recruited for COVID-19 duties.

Environmental Health and Other Non-Nursing Staff Shift, Guide...Even Direct Traffic at Vaccination Clinics

Few health professionals pivoted as sharply as non-nursing health department staff such as Environmental Health (EH) inspectors. COVID-19 closed restaurants, cancelled events, and ground new construction to a halt. Instead, the EH crew performed contact training – spending hours on the phone to help control the spread of COVID-19 by making people aware of their exposure and helping them understand their risks. They were often joined by Hearing & Vision screening experts and other health department staff. As more nurses came on board, our intrepid non-nursing staff shifted to wellness checks and recovery tracking.

During this time, the May 2020 flood required EH expertise to protect ground water and to set up and inspect shelters, assess damages, and assist with wells and septic systems impacted in James and Spaulding Townships.

Eventually, restaurant inspections were conducted via FaceTime to maintain food safety. Interpreting the cumbersome executive orders (EOs) for restaurant and venue occupancy and investigating EO compliance complaints grew increasingly challenging – at a time when staff were needed to help with mass vaccination clinic logistics. Many spent hours outside in the winter cold directing cars into drive-thru clinics.

While taxing and overwhelming at times, COVID-19 duties brought out the very best in our non-nursing staff. Their roles throughout the pandemic were vital, valued, and essential for protecting Saginaw County on many levels.

Public Health Lab Performs Critical Surveillance and Testing

Before COVID-19, Saginaw's public health laboratory was recognized as a key part of the regional laboratory response network for bioterrorism. That capacity dwindled with decreasing funding over the years leading up to COVID-19. However, the skill set remained.

Saginaw was the first county to submit a COVID-19 sample to the state lab for analysis. The state would subsequently provide us with new equipment and resources to run more samples for PCR testing with 24-hour results. A lengthy, methodical and successful remodel occurred throughout the pandemic in and around the lab. Staff became the county's champions for equitable access to 24-hour PCR test results and grew a vital testing hub for long-term care facilities, shelters, travelers, and districts including the serial antigen "test to stay" and "test to play" programs at multiple county schools.

RETURNING TO MORE TRADITIONAL SERVICES

Harm Reduction

The Saginaw County Health Department was instrumental in shining a light on harm reduction thanks to the 50-foot mural on the side of our building created by Michigan artist Kevin Burdick. The mural was part of a harm reduction project funded by a grant received by the Saginaw Community Foundation. The mural is inspired by local participants of the PEER 360 Recovery Alliance and is designed to deliver a message of hope for those who struggle with opioid use and recovery. The project has other components as well, including emergency responder training.



"Harm reduction" is an evidence-based approach to reducing the negative personal and public health impacts of substance use. It allows community "helpers" like the health department, police and first responders to engage very high risk and hard-to-reach individuals in comprehensive, free programs and services to prevent the spread of diseases like hepatitis and HIV, prevent overdoses, and prevent deaths.

For some, engagement in harm reduction services is the first step toward "being well." Please join the health department and the community foundation in celebrating opportunities to impact lives and improve our community.

Region's First Narcan Vending Machine

In 2020, 2,171 Michiganders died of opioid overdose – 55 in Saginaw County alone. In response to this growing public health concern, a vending machine was installed at the Saginaw County Health Department. It is the first of its kind within the Great Lakes Bay Region and a vital tool to address the opioid crisis and the stigma of substance use.

At no charge, the vending machine dispenses: 1) fentanyl test strips to detect the presence of fentanyl in street drugs, and 2) Naloxone (also known as Narcan), a life-saving opioid overdose-reversal tool bystanders can use to revive an individual long enough to get paramedics on the scene. These products are free to anyone – no questions asked and no identification required – Monday through Friday, 8am-5pm, in the SCHD lobby.

The vending machine and its contents are designed for anyone, including friends, family, and the general public who know or interact with someone at risk for opioid overdose including those:

- Taking high doses of opioids as prescribed for pain
- Living with opioid use disorder
- Misusing opioids prescribed for others or using illicit opioids like heroin or fentanyl



It is part of an ongoing partnership between SCHD and the CAREring Quick Response Team (made up of the Michigan Health Improvement Alliance, Ten16 Recovery Network, Mobile Medical Response and other partners). Program support for the vending machine was funded by a grant from MDHHS.

Improving access to life-saving harm reduction tools is a growing part of SCHD's work. Naloxone is vital to battling the opioid crisis, and lethal doses of fentanyl are turning up in more and more substances. This vending machine is an incredible opportunity to get help and hope into the hands of not just people who use opioids or other substances, but every community member. None of us know when we may need to save a life.

Saginaw now joins Ann Arbor, Jackson and several northern communities offering free Narcan and fentanyl test strips from a vending machine.



Room 202 Opens with Syringe Exchange Services and More

Another exciting harm reduction initiative spearheaded by SCHD is our new Room 202 clinic. This space provides our community with a syringe exchange program.

The syringe program was made possible by another Saginaw "communitywide effort" to change ordinances allowing users to exchange syringes without penalty for carrying drug paraphernalia. Syringe services programs (SSPs) allow drug users to exchange their used syringes for new, sterile needles and works, thereby reducing the spread of infectious diseases that can be transmitted via needle sharing while putting them on a path toward education and treatment.

Regional Monkeypox Taskforce Addresses Messaging to Key Audiences

SCHD is participating in a newly formed regional taskforce spearheaded by Great Lakes Bay Pride and including health department peers from Midland, Bay, and Central Michigan, MiHIA, and Great Lakes Bay Health Centers.

Central to the work of the taskforce is helping our communities understand and assess the risks surrounding monkeypox while informing them about vaccination and treatment options – without stigma, just facts. Our guidance on monkeypox – just as it has been with COVID-19 – is designed to help people make informed choices.

We continue to offer the monkeypox vaccine to those who qualify and are working with local healthcare providers on TPOXX treatment protocol and dispensing requirements.

COVID-19 Guidance for 2022-2023 School Year Reflects Shift in Approach Back to Proactive Public Health

In the school setting, management of COVID-19 has transitioned away from a pandemic emergency response model toward a more standard approach used in the management and control of other respiratory viral diseases like influenza. Communicating this to our county's school districts continues to require a robust effort – made easier with the SCHD team of health resource advocates (HRAs) stationed in most districts.

Though subject to change with fluctuations in disease transmission – right now – in the preK-12 school setting, the focus is on basic illness prevention and detecting and responding to in-school clusters of cases, ongoing transmission in the school, and outbreaks. Management will rely less on things like case investigation, contact tracing, and quarantining of students or staff following school exposures.















1600 N. Michigan Avenue, Saginaw, MI 48602

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www.saginawpublichealth.org







1-17-2

MEMO

To:All Saginaw County CommissionersFrom:William W. Stanuszek, Director

Date: December 20, 2022

Re: Distribution of SCMAC's 2022 Annual Report

The Saginaw County Mosquito Abatement Commission proudly presents our <u>2022 Annual Report</u>. This report provides an account of the mosquito season's control efforts, services, public education, and mosquito surveillance. This accounting represents the hard work and efforts of our staff to protect the public from mosquitoes and the diseases they transmit. This report is available for public viewing on our website, <u>saginawmosquito.com</u> and can be accessed by clicking on the above "2022 Annual Report" link.

Our operations responded to mosquito threats throughout the season with a concerted effort made to keep the public informed as well as remain accountable utilizing news releases, agency website, and social media. Our surveillance again noted the presence of mosquito-borne disease within the county's mosquitoes and birds.

SCMAC remains committed to providing a responsible public health service to all communities throughout our county. Providing relief from nuisance mosquitoes and lessening the threat of mosquito-borne disease is our priority.

Please do not hesitate to contact me if you have any questions regarding the report or our program. Further information is also available on our website.

On behalf of our Board of Trustees and the entire staff, we wish you and your family a Safe and Joyous Holiday Season.



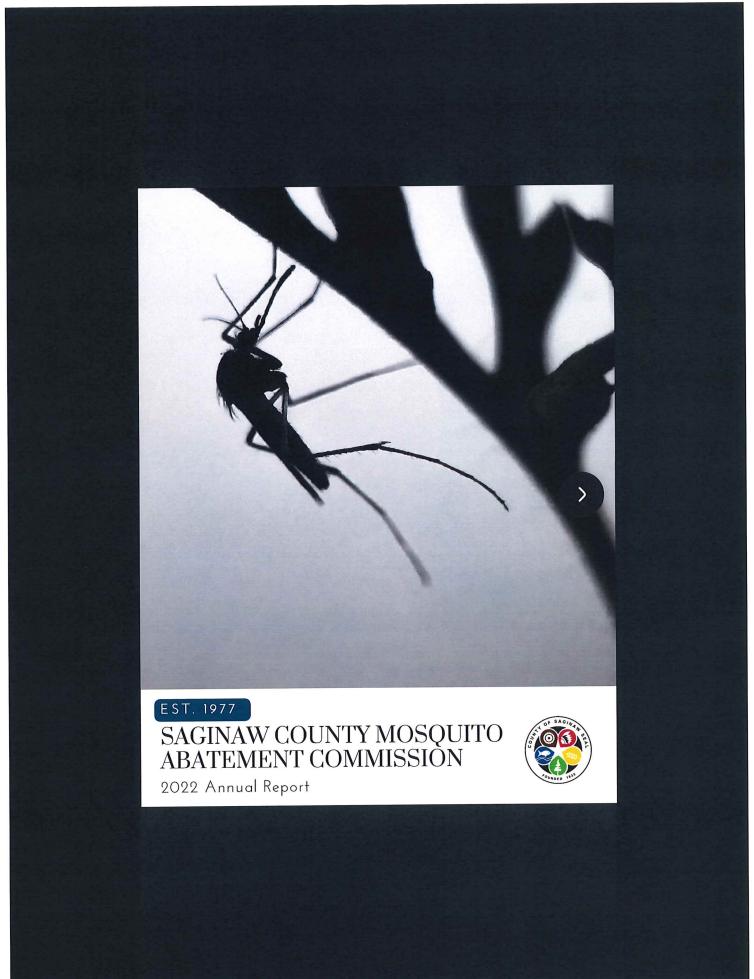
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Director's Note
SCMAC Staff
Integrated Mosquito Managemei
Community Education
Biology
Source Reduction
Pollinator Protection Policy
Control Operations
Services and Outreach
Professional Development
Technical Advisory Group

>

ccountability and transparency documents are availab under the Performance Dashboard at

1

5-10

13-17

DIRECTOR'S NOTE...

I am proud to present Saginaw County Mosquito Abatement Commission's (SCMAC) <u>2022 Annual Report</u>. This newly formatted report provides a synopsis of the past mosquito season with easier interpretation of information and reflects the hard work of our employees. With 46 control seasons experienced, we continue to make strides in controlling mosquitoes and mosquito-borne disease throughout our county in the most cost-effective manner. We strive to use the most effective strategies based on science and regulation with the least impact to the environment and pollinators.

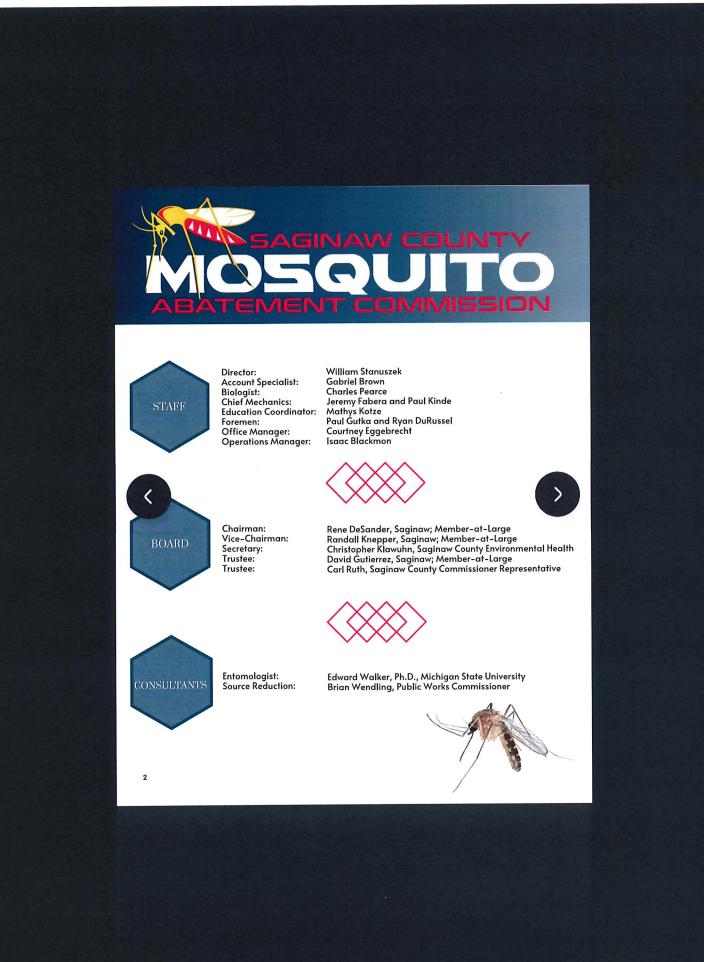
This season presented persistently dry conditions. Due to a lack of floodwater nabitat, there was minimal sustained county-wide nuisance, which we have not experienced since 1998. Warm, dry seasons tend to favor the proliferation of mosquito-borne disease, with West Nile virus (WNV) being most notable. Near-average disease activity in mosquitoes and birds was noted late season due to nosquito populations that utilize permanent water habitats such as stagnar tches, roadside catch basins, and wetlands as well as artificial habitat cluding buckets and scrap tires. Numerous control efforts were implemented to reduce the number of disease-carrying mosquitoes. This year is a reminder that each season is unique, posing its own mosquito challenges that require unique control strategies.

>

SCMAC continues to invest in technology to improve the efficacy, efficiency and accountability within our programs and services. Currently, all control operations are accounted for through GIS technology. Public communication and education remain a priority and we continue to make strides in its accessibility and relevance. Through the implementation of a new public notification app, continued updates to our website, and increased use of social media, we can keep citizens informed of current and upcoming mosquito control efforts.

The commission and its staff embrace our essential role in protecting public health, and I would like to thank them for their efforts in service to our community.

On behalf of the Commission, I would like to pass along sincere appreciation to Saginaw County residents as our Millage was renewed this fall for another 20 years.



Integrated Mosquito Management

"The concept of integrated mosquito management (IMM) is central to the goal of mosquito prevention and control. IMM is a comprehensive, surveillance-based mosquito prevention and control strategy that utilizes all available mosquito control methods, either singly or in combination, to reduce the number of mosquitoes while maintaining a quality environment."



- Informing our citizens, through our Public Education Program, of what they can do on their property and communities to control mosquitoes and avoid their bites.
- Elimination or removal of mosquito breeding habitat (standing water) in and around the home and community through our Source Reduction Programs.
- Our Biology Department monitors mosquito populations and mosquito-borne disease. This surveillance directs our control program. In addition, all control is monitored to ensure responsible and effective use of control products.

- Larval mosquito control, known as larviciding, is performed through treating standing water where larval mosquitoes are found. There are a variety of known standing wate habitats known to breed mosquitoe and are often referred to as breeding habitats. The majority of larval control is done with a bacterial by-product (Bti) which is deadly to mosquito larvae and biodegrades rapidly.
- Controlling the pupal stage, pupaciding, is done with a very fine, highly refined mineral oil. This oil biodegrades in approximately 24 hours.
- Adult mosquito control, or adulticiding, controls populations of biting adult mosquitoes. When adult mosquito surveillance notes certain populations of adult mosquitoes and/or presence or increase in mosquito -borne disease, an ultralow volume (ULV) application is used to decrease the mosquito threat.

Community Education

Professional Development

Our commission is very active with professional groups related to mosquito control. This season the Education Department and agency were very involved with the Michigan Mosquito Control Association's (MMCA) Annual Conference (February) and 7F Seminar (October) as well as our own Seasonal Employee Training Seminar. Building relationships, sharing, and learning from colleagues in the industry continually proves to be beneficial in combatting mosquitoes and bisease. Our technical expertise on vitual webinars and presentations proves valuable for a seamless experience both internally and publicly.

Media

Our website, social media, and online business profiles (Google, Microsoft, Apple) have become our focus to provide usable and interactive access to information and services. We also launched our very own Public Notification app for Apple and Android devices. Residents



this app to view information such as our schedule, make reports, or sign up for ments. The app is constantly developed and as we learn what is useful and pertinent for

Community Events

This year we participated in various civic events:

- Friday Night Live
- Saginaw County Fair
- School Presentations
- Saginaw County Parks Events

We appreciate the various organizations that invite us to educate residents on mosquitoes, the diseases they transmit, and their control. In-person school presentations are on the increase and like the events, we appreciate the schools and teachers inviting us to participate in their programs.

Contest

Our annual creative arts contest has been launched for this school year. The deadline has been extended to the latter part of the school year in order to render the most participation. Classroom presentations are a great way to engage student participation.









DISEASE SURVEILLANCE

Mosquito-Borne Virus Activity

Understanding and tracking mosquito-borne disease is crucial to promoting public health within the county. The presence, amount, and recent history of mosquito-borne virus activity dictates our control strategies as well as public notification and education. Our surveillance samples for five viruses known to cause human disease in the Midwest region: Eastern Equine encephalitis (EEE), Jamestown Canyon virus (JCV), La Crosse encephalitis (LAC), St. Louis encephalitis (SLE), and West Nile virus (WNV). Mosquito samples are submitted to the Michigan Department of Health and Human Services' Bureau of Laboratories while corvids are sent to the Michigan State University Veterinary Diagnostic Laboratory for test surveillance efforts adapt according to the a resurgence of mosquito-borne viruses.



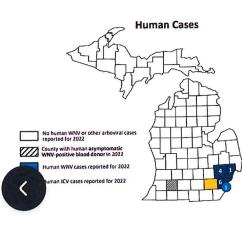
JCV, LAC, and WNV Surveillance Results

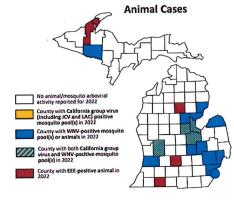
- · 1,559 mosquito samples submitted
 - · Ae. canandensis: 1 JCV Positive, 1 JCV/LAC Positive
 - An. quadrimaculatus: 2 JCV Positives
 - Culex pipiens: 4 WNV Positives
 - · Cq. perturbans: 1 WNV Positive
- 13 corvid samples submitted
 - Crows: 4 WNV Positives
 - · Blue Jays: 2 WNV Positives
 - Sun Conure: 2 WNV Positives

13 positive WNV 4 positive JCV **1 positive LAC**

STATE OF MICHIGAN

Arbovirus Surveillance





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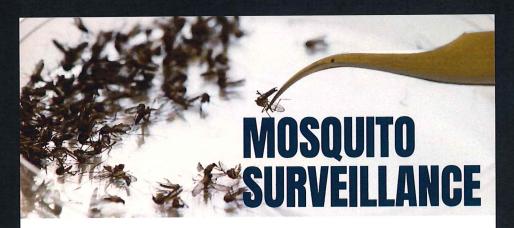
Arboviruses are viruses transmitted by mosquitoes or other insects

The State of Michigan reporte human cases of WNV with occurring in Oakland and V County. No fatalities have been reported. WNV was also detected in 66 mosquito pools and 18 birds.

EEE cases decreased in 2022 infecting a total of **3 horses** occurring in Eaton, Roscommon, and St. Joseph counties. No human detection has been reported.

Jamestown Canyon virus (JCV) was detected in **12 mosquito pools** reported in Kent, Saginaw, Bay, and Midland counties as well as **1 case of** LaCrosse (LAC).

Source: https://www.michigan.gov/emergingdiseases Information updated as of 11/18/2022



SCMAC utilizes multiple adult traps to track mosquito populations. In addition, mosquito breeding habitat is sampled continually throughout the season noting the presence and abundance of larval mosquitoes. This sampling not only allows for operations to respond to mosquito populations but offers better understanding of mosquitoes and the factors that affect them. Weather conditions greatly influence mosquito populations, most notably temperature (development) and rainfall (abundance). SCMAC

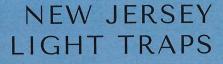


rainfall throughout the county to better forecast impacts on mosquito populations, the determines when and if control is needed, and offers insight into efficacy and effitrol efforts

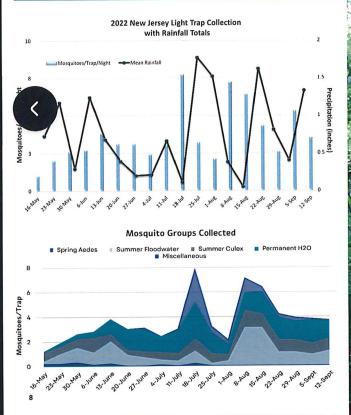
HIGHLIGHTS:

larch 22:	First mosquito larvae found
pril 28:	First mosquito pupae found
May 19:	First major adult emergence
1ay 19:	Peak Spring <i>Aedes</i> activity: 76 mosquitoes per CDC Trap
une 16:	Peak <i>Culex</i> activity: 71 mosquitoes per Gravid Tra
uly 13:	Summer <i>Culex</i> migrate up into tree canopy
ug 18:	Peak Floodwater <i>Aedes</i> activity 251 mosquitoes per CDC Trap





New Jersey Light Traps (NJLT) utilize a light source to sample adult mosquito populations. Aedes and Anopheles mosquitoes are most often captured in these traps. Twenty-five of these traps are geographically located throughout Saginaw County. These traps are placed primarily at participating county residences, and operated Monday, Wednesday, and Friday nights for 18 weeks during the mosquito season. Biology staff collects the mosquitoes the following scheduled workday. These collections are counted and identified providing mosquito species and densities indicating where control is needed. This trap network monitors immediate and long-term changes in mosquito populations.





CDC/GRAVID TRAP SURVEILLANCE

CDC TRAPS

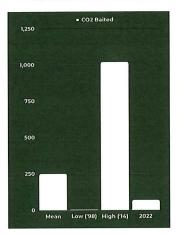
These traps are effective in defining local mosquito nuisance as well as sampling certain disease-carrying mosquitoes. They are baited with dry ice (carbon dioxide) which is very effective in attracting host-seeking mosquitoes, especially Aedes mosquitoes. Daily trapping occurs Monday - Thursday in varying locations.

ELEVATED CDC TRAPS

Are placed 15 to 20 feet into the tree canopy to sample mosquito-borne disease by sampling summer *Culex* mosquitoes. *Culex* mosquitoes primarily feed on birds, this placement samples bird feeding occurring in or nesting birds.

, this trapping notes early season

CDC MOSQUITO TRAP Totals: 1985-2022

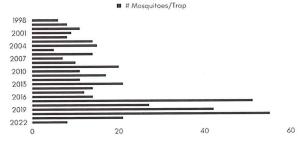




GRAVID TRAPS

These specialized traps monitor mosquito-disease by baiting *Culex* mosquitoes with a fermented mixture of water, guinea pig pellets (hay), whey, and brewer's yeast. This "bait" is very attractive to female mosquitoes looking to lay their eggs. *Culex* will often lay eggs following a blood meal, commonly from a bird, which may contain a virus like West Nile virus. Five traps are placed at different sites Monday - Thursday.







WEATHER

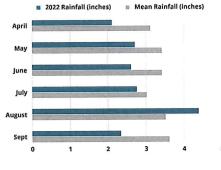
Precipitation and temperature influence the amount of mosquito nuisance and arbovirus activity experienced within the mosquito season.

year our season began with below ge snowmelt and spring rainfall. conditions, along with a essful spring aerial program resulted in muted numbers of spring and nuisance mosquitoes.

With below average rainfall and a resultant low water-table persisting into late summer, minimal floodwater mosquito nuisance was realized. The lowest number of floodwater mosquitoes since 1998. When heavy rains arrived in August, the dry conditions favored the uptake and run-off of rainfall resulting in very little floodwater, while replenishing various permanent water sites.

Even in a dry season, conditions a favorable to many permanent > mosquitoes, including Anopheles, ca and Culex mosquitoes. These mosquitoes are responsible for disease amplification and are associated with habitats that year-round. Warm hold water temperatures along with dry conditions promoted mosquito-borne disease activity. West Nile virus was noted in July and increased through August into September.





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SCMAC hosted 2 tire drives July – St. Charles Township Office – 1,154 tires August – Taymouth Township Office – 633 tires

DUCTION

Search & Inform:

Targeting residential mosquito breeding habitats, crews search:

- Tires
- Children's toys
- Tarps
- Neglected pools
- Bird baths
- Boats

These man-made habitats are capable of producing both biting and diseasecarrying mosquitoes, making elimination of these habitats crucial. With the homeowner's permission, crews survey and educate. When these sources cannot be dumped or removed, they are treated.



Scrap Tire Collection:

Tires are accepted at our facility May 1st-August 31st and transported to First Tire Shredders in Clio. Michigan. A of these efforts were funded thra Scrap Tire Grant from the Mich Department of Environment. Great Lakes, and Energy (EGLE).

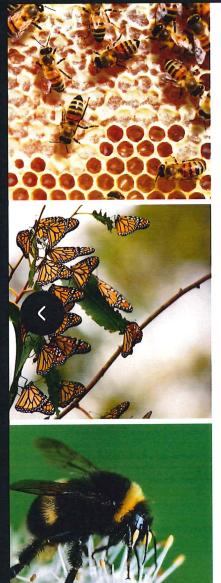
Collection Criteria:

- Saginaw County residents only
- 10 tires per household
- No rims
- Passenger sized only
- No businesses

Neglected Swimming Pools:

Neglected pools are a major source of *Culex* mosquitoes which carry West Nile virus (WNV). SCMAC works with the Saginaw County Public Health Department to help eliminate the public health threat. The intent of the program is to encourage homeowners to:

- Restore the pool to use
- Drain completely
- Remove pool



POLLINATOR PROTECTION POLICY

SCMAC is continuously aware of the presence and importance of pollinators in Saginaw County. In order to adequately protect honeybee colonies and other pollinators from possible pesticide exposure, there must be effective communication and cooperation from those involved.

Bees and many pollinators are most active between 8:00 a.m. and 8:00 p.m. ULV treatment begins in these areas after sunset, well after the time most bees have returned to their hives. The majority of our control efforts and budget is for larval control that utilizes biological products like *Bti*, which is applied directly to the water and does not affect pollinators.

SCMAC works with the Saginaw Valley Beekeepers Association to follow the Best Management Practices for bee colony/pollinetor health in Saginaw County, as well as following the principractices set forth by the State of Michigan's "Managed Protection Policy" and Michigan Mosquito Control Association Control and Pollinator Protection Best Management Practices".

Pollinator Response Plan:

- Reduce the presence of mosquito breeding habitat by eliminating standing water and artificial breeding containers
- Minimize pesticide exposure by following IMM principles and following product labels
- Prioritize use of larval control products to target the beginning stages of a mosquito's life cycle in standing water. This practice offers little-to-no risk to pollinators
- ULV adult mosquito management that applies the lowest
 effective rate of material to target mosquitoes
- Utilize ULV practices after sunset when honeybees and other pollinators are not active and foraging
- · Avoid direct application of spray to flowering plants
- Monitor wind direction and speed to avoid insecticide drift
 Maintain open and frequent communication with
- beekeepersWork with beekeepers who wish to be a "no spray" resident
- Watch MDARD's Drift Watch website for hive locations and note on all treatment maps

LARVAL CONTROL MATERIALS

Product

VectoBac G Mosquito Beater WSP MetaLarv S-PT 2 Larviciding Oil sid XR Briquets sid pellets WSP Altosid P35 Duplex-G VectoLex WDG VectoMax WSP Fourstar WSP Fourstar 180 Briquets

Pesticide **Registration No.** 73049-10 4-455 73049-475 70589-1 2724-421 2724-448 89459-95 89459-93 73049-57 73049-429 85685-3 83362-3

Bti Bti Methoprene

Active Ingredient

Mineral Oil Methoprene Methoprene Methoprene Bti/Methoprene Bs Bs/Bti Bs/Bti Bs/Bti

Amount Applied

262,962 lb. 258 lb. 3,509 lb. 150 gal. 4,279 brique) 30,896 pack 1,884 lb. 106 lb. 2 lb. 17,416 packets 10,032 packets 280 briquets



Bti = Bacillus thuringiensis isrealensis, Bs = Bacillus sphaericus

ADULT CONTROL MATERIALS

Product

Kontrol DeltaGard

Pesticide **Registration No.** 73748-4 432-1534

Active Ingredient

Permethrin Deltamethrin **Amount Applied**

4,221 gal. 92 gal.

SPRING AERIAL

Aerial Treatment: April 22 - 28, 2022

Seven fixed-wing aircrafts polied granular *Bti* at the low rate of 2.5 - 3.0 ds per acre. *Bti* is a rally occurring soil bacterium that biodegrades quickly without leaving a residual.

Efficient and accurate aerial application is accomplished through Geographic Information Systems (GIS). Treatment areas are defined, and application can be tracked in real-time.

Awareness and notification for this annual event is provided through a local news release and contacting governmental, regulatory, and public safety agencies.

119 pools checked

Yearly evaluation of our aerial larviciding program is conducted to monitor the accuracy of aerial applicators and insecticide efficacy. Woodland pools are checked before and after treatment to determine program efficacy.

52,080 acres treated

Upon completion of aerial treatment, seasonal vector technicians begin ground larviciding of small, isolated flooded woodlands in and around populated areas.

90% reduction in population

This year's sampling noted a 90% reduction in spring mosquitoes which compares to a historic average of 88% with a 28 year range of 72 - 95%.





3.176

sites required treatment

Larval Control

Larviciding is the most effective technique for drained or removed. Out of a 16-hour workday, 12 hours are engaged in this activity. Larval sites are either known historical habitats that are checked routinely or from residents reporting standing water.



Flooded Fields

Summer floodwater sites are inventoried within our GIS software, and number in the thousands. These sites routinely breed nuisance mosquitoes following rainfall events that result in the creation of floodwater habitat. Upon property owner request, SCMAC conducts a visit and treats any mosquito breeding found on the property. Due to dry conditions this season, 1,551 site visits were conducted of which only 170 needed treatments.



tion/Detention Ponds

and detention ponds are designed to collect water from paved surfaces such to lots and subdivisions. There are **162 retention/detention** ponds that are checked and treated when necessary. Treatment acres for these ponds are rainfall dependent and treated with Bti or Duplex-G at a rate of 5 to 9 pounds per acre. Pupae are treated with a larviciding oil applied at a rate of three gallons per acre. A total of 44 treatments occurred this season.





Sewage Lagoons

Saginaw County has 16 sewage lagoon sites are routinely monitored throughout the season. These habitats are a prolific source of disease carrying *Culex* mosquitoes due to the high organic matter. Monitoring and treating these sites are crucial to disease prevention. When breeding is found, treatment is done using Vectolex WDG at a rate of 1 pound per acre. Due to the unusual weather experienced this season, our sewage lagoons only required 2 treatments.

Neglected Pools/Tires

Unused swimming pools and scrap tires can be difficult to remove and are capable of breeding disease carrying mosquitoes all season long. These habitats are therefore inspected and treated with extended-release products when possible. A total of **70 pool** sites were monitored, **42 required treatments**. Pool sites are reported by residents, local governments, and the Health Department. A total of **58 tire sites**, many businesses, were monitored requiring **165 treatments** with *Bti* and larviciding oil.





EXTENDED LARVAL CONTROL

CATCH BASINS

Catch basins are a major breeding source for *Culex* mosquitoes which can transmit WNV and SLE. Extended-release products are used to control mosquitoes for weeks to months at a time. The Biology Department routinely checks for infestation and control efficacy.

ROADSIDE

- Products used in roadside catch basins:
- VectoMax WSP a bacterial control
 Altosid WSP a methoprene product

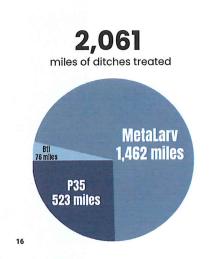
BUSY ROAD

Products used in busy road catch basins: • Altosid XR briquets - a methoprene

product

OFF ROAD

Products used in off road catch basins: • Fourstar WSP - a bacterial control





DITCHES

Roadside ditches are treated throughout 27 townships and our metro area. Treatment commences in metro areas and villages every 4-6 weeks with an extended-release product. Ditches in other areas are monitored and treated with *Bti* following large rain events.

PRODUCTS

- Products used in ditches:
- VectoBac G 684 pounds
- MetaLarv S-PT 3,509 pounds
- Altosid P35 1,884 pouds

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SAGINÂW COUNTY MOSQUITO ABATEMENT COMMISSION



ADULT CONTROL

AND SALAN

Ultra-Low Volume (ULV) adulticiding is the introduction of control products into the air to kill adult mosquitoes while they are in flight using truck mounted ULV sprayers. Each ULV machine is calibrated monthly to dispense approximately 1.0 ounce of spray product per acre, These machines break down insecticides into the proper droplet sizes, which range from 12-25 microns. Weather permitting, ULV treatment normally takes place Monday through Friday from sunset to 12:30 a.m., as to coincide with peak mosquito activity. If mosquito densities are high, an additional spray shift is conducted prior to sunrise which correlates to a second peak of mosquito activity.

The County of Saginaw is divided into 9 service zones. Adult spraying is performed after analysis of biological data from traps, disease surveillance, and citizen calls. Our ULV spraying primarily utilized a 4% permethrin formulation.

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In addition to monitoring larval control product effectiveness, SCMAC conducts multiple laboratory and field tests on current and possible adult control products. ULV caged mosquito tests ensure adult control product efficacy in the field, while laboratory bottle bioassays monitor for possible adulticide resistance in Saginaw's mosquito population.

This year's accomplishments included: continued field evaluation of ULV formulations and extended-release larval control products including new methoprene formulations. We also continued to examine the seasonality of various mosquito-borne viruses including the resurgence of Jamestown Canvon virus.

Nightly treatment information was updated by 2:00 p.m. Monday - Friday (May - September).



Priority Requests

Each year. residents are allotted 2 priority sprays for parties and events when availability allows. On the requested date, technicians are dispatched to the property and perform an adult treatment spray. A liability release form is signed for authorized off-drive treatment.

istribution

owners that have persistent stagnant hay obtain a limited amount of Bti The amount of product given is based

Along with the product, residents are given a copy of the product label, proper treatment instructions, and answers to frequently asked questions.

Long Drive Treatment

To promote effective adult control in their area. homeowners may request their driveway to be treated during a ULV zone sweep if they meet the criteria:

- Home is >300' from the road
- Adequate turnaround Vegetation/Harborage

Approved addresses are placed on our route maps and reflective markers are placed at the end of the driveways

Medical Certification

Residents who obtain medical confirmation of an extreme reaction or other medical difficulty related to biting mosquitoes may apply for our Medical Certification Program. Paperwork is renewed annually and those who qualify will receive yard treatment when a ULV zone sweep is conducted in their township (no more than once every 10 days).

No Spray



Property owners may 'opt out' of any mosquito control services. Organic operations are not treated due to their organic operations are not treated due to their organic designation. Residents desiring to be excluded from treatment must complete a No Spray Request Form each year to ensure accuracy. Residents are provided yellow reflective signs to post at their property lines to assist with awareness. In addition to visible signs, these properties are included in GIS for operational reference reference

Community Use Sites

Sites that are frequently utilized by the public such as parks, campgrounds, and clubs are routinely checked and treated for mosquitoes to promote community enjoyment and use. Each site is unique and receives site-specific IMM. While most sites receive routine larval treatment, adult control may occur as needed. event-based, or not at all. There are currently 32 sites within this program.



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PROFESSIONAL DEVELOPMENT

Permanent Staff: SCMAC values and promotes ing of our staff regarding safety, policies and tions, operations, and professional pment. The mosquito control field is always uging. Permanent staff members are involved with numerous national and state associations, attend meetings. conferences, training, and seminars to stay abreast of new technologies, mosquito control practices, products, and science. Various SCMAC staff attended professional meetings including:

- American Mosquito Control Association
- Michigan Mosquito Control Association
- Midwest Center of Excellence in Vector-Borne
 Disease
- Entomological Society of America

SCMAC also works closely with the Saginaw County Health Department, Parks and Recreation, and Public Works. The annual Michigan Mosquito Control Association Conference was held virtually, and the American Mosquito Control Association annual meeting was held in person. Staff also participated in virtual seminars including regional mosquito control, novel equipment, CIS technologies, and regulatory updates. Seasonal Staff: Prior to employment, seasonal staff had to pass the Michigan Department of Agriculture and Rural Development (MDARD) Core or Category 7F test to become registered technicians or commercial applicators. In addition to passing the MDARD test, employees receive intensive hands-on training, consisting of closely supervised fieldwork. Employees also receive training addressing safety, policies, control products, application techniques, technology, equipment, and professionalism.

(TECHNICAL ADVISORY GROUP)

Saginaw County Mosquito Abatement Commission's Technical Advisory Group was established in 1992 and meets twice a year, typically in March and December. This group consists of experts in a variety of fields who assist and provide input to our agency's program and

March 2022 Meeting Topics December 2022 Meeting Topics

Program changes

Season projects

2022 Mosquito-borne

disease surveillance

- SCMAC's 2022 Program Plan
 SCMAC's 2022 Annual Report
 - 2022 Season highlights
 - Mosquito surveillance results
- State and Federal permitting
 Disease detection results
 - Post season plans

Technical Advisory Group M

Chairman: Edward Walker, Ph.D. Michigan State University George Balis Eric Benbow, Ph.D. Michigan State University Emily Dihn, Ph.D. Michigan Department of Health David Driver Veseris Kevin Kern Michigan Department of Agriculture & Rural Development Tom Kessler Clarke Chris Klawuhn Saginaw County Enviro nental Health Services Chris Novak Clarke Jason Scott Target Specialty Kim Signs Michigan Department of Health & Human Services Scott Simmons United States Fish & Wildlife Services

Brian Wendling Saginaw County Public Works Bryant Wilke

Sanilac County Health Department

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practices.

