

# *Rising to the next level*

of Public Health 3.0



**District Health  
Department #10**  
*Healthy People, Healthy Communities*



## 2019 DATA SUPPLEMENT



# 2019 PUBLIC HEALTH DATA

The following supplement provides an in-depth view of the health of residents within the jurisdiction of District Health Department #10. This supplement also highlights data related to the programming and services provided to residents in our communities. These data sets are used to tell the story of each county's health status. DHD#10 continuously collects and analyzes data to identify the burden of disease and examine the overall health of the 10 county population. DHD#10 uses this data to ensure that programs and services are meeting the needs of clients and the communities served.

## LEADING CAUSES OF DEATH

	DHD#10 Number of Deaths	DHD#10 Death Rate per 100,000	Michigan Death Rate per 100,000
Heart Disease	664	172	194.9
Cancer	693	171.6	161.1
Accidents	169	54.6	52.1
Chronic Lower Respiratory	223	54.2	44.2
Stroke	173	44.1	39.9
Alzheimer's Disease	152	39.8	34.3
Diabetes Mellitus	84	21.2	21.9
Kidney Disease	45	11	13
Pneumonia/Influenza	53	13.3	14.3
Suicide	48	18.3	14

MDHHS, 2018

## COMMUNITY HEALTH INDICATORS

	Crawford	Kalkaska	Lake	Manistee	Mason	Mecosta	Missaukee	Newaygo	Oceana	Wexford	Michigan
Total Population <sub>1</sub>	13,901	17,824	11,881	24,528	29,100	43,545	15,113	48,892	26,625	33,466	9,995,915
# of Births <sub>1</sub>	110	186	91	193	252	435	185	529	279	370	110,093
Birth Rate per 1,000 <sub>1</sub>	7.9	10.4	7.7	7.9	8.7	10	12.2	10.8	10.5	11.1	11
# of Deaths <sub>1</sub>	192	219	197	320	368	408	171	503	260	365	98,985
Death Rate per 100,000 <sub>1</sub>	790.6	978.8	962.2	758.7	806	752.5	780.6	762.3	704.2	802.6	783.1
Cancer Mortality Age Adjusted Rate per 100,000 <sub>1</sub>	159.9	208.9	202.6	181.4	158.7	169.8	141.2	177.2	177.9	171.5	161.1
Cardiovascular Disease Mortality Age Adjusted Rate per 100,000 <sub>1</sub>	182	220.3	226.3	168.9	173.2	197.4	178.5	157.3	175.8	148.5	194.9
Household Income, 2013-17(median) <sub>2</sub>	47,443	46,004	34,631	47,172	49,663	44,460	44,766	46,724	46,217	44,166	54,938
Persons Below Poverty <sub>2</sub>	13.6%	14.1%	22.3%	13.1%	12.1%	18.4%	12.9%	15.6%	15.5%	13.1%	14.1%
Medicaid Paid Births <sub>3</sub>	60.1%	62.2%	57.7%	52.9%	40.2%	42.5%	48.2%	47.9%	60.1%	55.1%	42.7%
Teen Pregnancy Rate per 1,000 <sub>4</sub>	22	29	41	34	29	16	31	32	37	36	22
Smoked While Pregnant <sub>3</sub>	38.5%	30.6%	39.6%	32.9%	17.0%	25.6%	21.5%	25.9%	23.9%	26.2%	16.2%

1 - MDHHS, 2018; 2 - U.S. Census Bureau 2014-2018 3 - Michigan League for Public Policy 2017; 4 - County Health Rankings 2019;

# COMMUNICABLE DISEASE REPORTING

	Crawford	Kalkaska	Lake	Manistee	Mason	Mecosta	Missaukee	Newaygo	Oceana	Wexford	Total
Chlamydia	39	27	39	28	60	170	43	159	86	89	740
Hepatitis C Chronic	8	8	12	16	28	14	11	40	12	27	176
Campylobacter	0	0	3	9	8	7	3	8	4	2	44
Chickenpox	0	1	1	1	0	1	0	2	2	0	8
Salmonellosis	2	1	2	3	2	5	6	5	2	4	32
Gonorrhea	0	5	9	4	8	27	0	20	5	14	92
Streptococcal	3	2	3	8	6	10	7	6	5	6	56
Shiga Toxin E coli	0	0	0	0	1	0	0	3	1	0	5
Giardia	0	1	0	0	1	1	1	5	0	3	12
Pertussis	0	0	1	1	0	6	0	0	0	0	8
Hepatitis A	1	3	0	2	0	0	1	0	0	1	8
Lyme Disease	0	0	0	8	9	2	1	0	7	1	28

Michigan Disease Surveillance System (MDSS), 2019

## COMMUNICABLE DISEASE TRENDING DATA

**Chlamydia** continues to be our most commonly reported communicable disease. Likewise, it is the most common disease reported in our state. Our number of cases has remained in the 700-800 range each year for the past five years.

**Gonorrhea** cases have been increasing each year for the past five years. The average trend over these years is an increase of 21% per year.

**Chronic Hepatitis C** will continue to be a major health problem. Our reported cases have shown an average trend of a decrease of 5% per year. This is likely due to changes in diagnostic criteria and more accurate diagnoses, which utilize RNA testing for virus confirmation.

**Salmonella** continues to be one of our primary food borne illness; with few outbreaks in our jurisdiction. The average trend over the past five years is an increase of 14% per year.

**Campylobacter** is our most commonly reported bacterial gastrointestinal disease. CDC estimates that it affects at least 1.3 million people a year in the US. Our case numbers have remained fairly constant year-to-year for the past five years.

**Pertussis** cases vary widely year-to-year due to periodic outbreaks, mainly in groups of unimmunized persons. Vaccination is the most effective means to prevent this disease.

**Shiga Toxin E coli** cases fortunately remained low this fiscal year. However, those that occur can be severe, especially in children. An increase in cases in children occurred during fiscal year 2017-18.

**Hepatitis A** incidence increased during this fiscal year due to five cases linked to an outbreak in northwestern Michigan (this is a separate outbreak from the statewide one which started in 2016 and is now subsiding). Five of our cases lived a transient existence in various counties but were counted for our district due to having a connection to a drug house in our jurisdiction.

**Lyme Disease** is endemic in the counties along the Lake Michigan shoreline. The average trend of our cases over the past five years shows an increase of 29% per year. These cases were primarily in our three coastal counties of Manistee, Mason, and Oceana.

### An additional comment:

Even though some diseases (such as TB and Meningococcal Meningitis) occur quite rarely, and do not appear on this list, they can create a large amount of work for our staff given the right circumstances. Therefore, the large numbers of certain diseases (e.g., Chlamydia; Chronic Hepatitis C) do not always properly tell the story of how much effort is required to investigate some of these diseases.

DISEASE	2018-2019	2017-2018	2016-2017	2015-2016
Chlamydia	740	725	716	771
Hepatitis C (chronic)	176	271	222	204
Campylobacter	44	56	50	48
Chicken Pox	8	12	11	5
Salmonellosis	32	34	22	24
Gonorrhea	92	73	65	57
Streptococcal Diseases	56	56	42	39
Shiga Toxin E coli	5	12	8	7
Giardia	12	19	15	16
Pertussis	8	23	9	7
Hepatitis A	8	4	4	3
Lyme Disease	28	15	12	14

## ACCESS TO DHD#10 HEALTH SERVICES

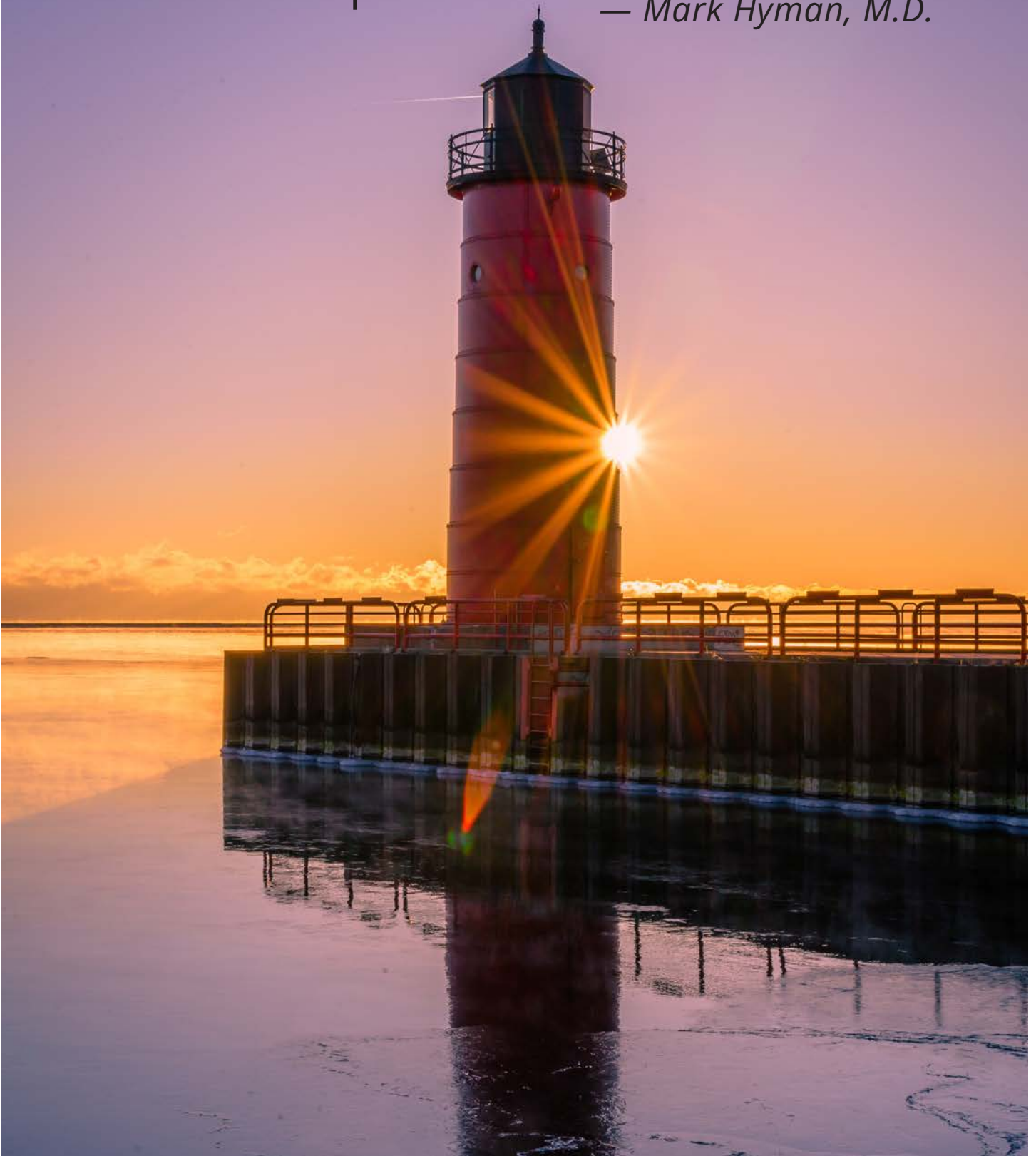
	Crawford	Kalkaska	Lake	Manistee	Mason	Mecosta	Missaukee	Newaygo	Oceana	Wexford	Total
<b>Maternal Infant Health Program (MIHP)</b>											
Maternal Clients	56	28	27	51	62	96	52	184	48	48	<b>652</b>
Maternal Visits	289	147	112	238	214	435	271	641	290	290	<b>2,927</b>
Infant Clients	45	35	22	45	29	88	45	104	59	59	<b>531</b>
Infant Visits	362	430	217	578	421	769	883	1,282	719	719	<b>6,380</b>
<b>Healthy Futures</b>											
Clients	118	82	11	43	7	0	77	0	1	210	<b>549</b>
<b>Children's Special Health Care Service</b>											
Children Served	50	63	49	82	132	225	84	330	108	179	<b>1,302</b>
Services Provided	74	98	69	143	220	307	137	746	193	414	<b>2,401</b>
<b>Women, Infants, and Children (WIC)</b>											
Average Monthly Enrollment	380	455	278	539	702	1,100	344	1,662	897	1,281	<b>7,638</b>
% Return Rate	94	98	97	97	97	99	91	98	96	91	<b>958</b>
PROJECT FRESH Distributed	230	280	180	290	490	500	230	1,025	580	750	<b>4,555</b>
Value of PROJECT FRESH coupons	5,750	7,000	4,500	7,250	12,250	12,500	5,750	25,625	14,500	18,750	<b>113,875</b>
Child Lead Screenings	56	96	44	152	166	333	78	525	239	287	<b>1,976</b>
Dental Services (Fluoride & Oral Screenings)	226	152	134	301	222	352	155	823	287	263	<b>2,915</b>
Breastfeeding Peer Counselor Services	56	91	65	122	141	293	48	464	166	189	<b>1,635</b>
<b>Family Planning Services</b>											
Clients Served	67	66	36	147	248	122	99	141	208	346	<b>1,480</b>
<b>Cancer Screening Programs</b>											
Breast & Cervical Clients	22	15	11	33	60	50	24	59	63	61	<b>398</b>
Colorectal Clients	7	7	3	2	18	4	5	14	16	10	<b>86</b>
Referred for Colonoscopy	6	5	1	2	6	2	4	9	9	8	<b>52</b>
<b>Dental Health - services provided in partnership with My Community Dental Clinics (MCDC) and Dental Health Centers (DHC)</b>											
Unique Patients	789	1,472	467	2,476	1,731	2,568	926	807	1,959	2,679	<b>15,874</b>
Patient Visits	1,813	3,246	988	5,665	3,808	5,802	1,819	1,881	4,432	5,037	<b>34,491</b>
<b>Community Connections HUB</b>											
Referrals	76	56	38	332	92	243	127	69	49	476	<b>1,558</b>
Client Encounters	258	187	19	1,956	236	886	310	194	151	1,174	<b>5,371</b>

## ESSENTIAL LOCAL PUBLIC HEALTH SERVICES

	Crawford	Kalkaska	Lake	Manistee	Mason	Mecosta	Missaukee	Newaygo	Oceana	Wexford	Total
<b>Onsite Sewage</b>											
Septic Permits	81	169	126	151	158	170	68	271	192	114	<b>1,500</b>
Septic Failures	42	39	18	28	50	48	2	87	50	20	<b>384</b>
<b>Water Program</b>											
Well Permits	80	131	131	146	162	229	137	304	183	132	<b>1,635</b>
Well Inspections	17	12	53	19	12	23	3	14	23	16	<b>192</b>
<b>Food Service</b>											
Food Operation Inspections	90	78	79	218	246	269	64	201	133	279	<b>1,657</b>
Temp Food Booth Inspections	10	27	32	89	81	53	30	57	139	40	<b>558</b>
Reported Food Borne Illness	2	1	2	4	2	5	0	6	2	5	<b>29</b>
<b>Immunizations</b>											
Vaccines Given	626	519	138	930	1,496	1,382	494	950	1,278	1,601	<b>9,414</b>
Influenza Vaccines Given	250	340	161	446	545	911	366	693	665	797	<b>5,174</b>
<b>Communicable Disease</b>											
TB Skin Tests Given	41	42	41	196	263	382	101	192	141	238	<b>1,637</b>
TB Patients on Prophylaxis	1	0	0	1	1	5	1	4	7	1	<b>21</b>
<b>STI Services</b>											
STI Clients	9	4	5	13	26	57	11	15	13	42	<b>195</b>
STI Clinic Services	9	4	5	14	34	69	14	22	21	65	<b>257</b>
<b>Hearing Screenings</b>											
Preschool Hearing Screenings	151	115	79	188	330	205	135	205	367	573	<b>2,348</b>
School Hearing Screenings	272	439	123	399	663	1,120	460	1,061	479	1,086	<b>6,102</b>
<b>Vision Screenings</b>											
Preschool Vision Screenings	148	129	79	200	330	206	141	205	346	576	<b>2,360</b>
School Vision Screenings	517	920	256	1,222	1,780	1,371	1,003	1,491	1,556	2,487	<b>12,603</b>

“The power of community to create health is far greater than any physician, clinic or hospital.”

— *Mark Hyman, M.D.*



# PUBLIC HEALTH PROGRAM SNAPSHOTS

## ENVIRONMENTAL HEALTH SERVICES

	Crawford	Kalkaska	Lake	Manistee	Mason	Mecosta	Missaukee	Newaygo	Oceana	Wexford	Total
Radon Kits Distributed	10	36	20	37	17	50	25	28	32	52	<b>307</b>
Soil Evaluations	4	3	6	8	6	21	0	34	10	6	<b>98</b>
Mortgage Evaluations	3	5	17	4	12	12	4	149	21	4	<b>231</b>
Building Permit Approvals	0	18	75	9	26	46	6	84	64	3	<b>331</b>
Complaints (all)	14	26	20	12	21	25	1	80	22	21	<b>242</b>
Child Care Inspections	5	23	8	19	10	33	17	40	19	25	<b>199</b>
Campground Inspections	22	11	23	27	29	24	11	42	35	26	<b>250</b>
Swimming Pool Inspections	7	5	6	25	59	19	2	6	24	14	<b>167</b>
Type II Sanitary Surveys	35	27	16	26	19	28	9	24	36	24	<b>244</b>
Tanning Inspections	4	0	0	8	5	7	0	8	5	6	<b>43</b>
Animal Bites/Exposures	37	43	21	70	59	95	67	143	61	145	<b>741</b>

## WOMEN, INFANTS, AND CHILDREN (WIC) SERVICES

	2018	2019
Average Monthly Enrollment	7,920	7,638
% Return Rate	95.6%	95.8%
# of Project Fresh Books Distributed	4,525	4,555
Value of Project Fresh Coupons	\$113,125	\$113,875
Child Lead Screening	1,148	1,976
Children who Received Fluoride Varnish	2,896	2,915



## HEALTH PROMOTION SERVICES

Community Programs	
Worksite Wellness Program Participants	1,255
Adults and youth impacted by direct nutrition education	238
Number reached by improving healthy food access through policy, systems, and environmental changes	4,835
Tobacco Treatment Program (TTP)	
Referrals	294
Clients Served	66
SCRIPT Enrollments (maternal smoking cessation)	22
National Diabetes Prevention Program (DPP) Participants	28
Total pounds lost on DPP	117
Girls on the Run Participants	248
LiveWell For Your Health Facebook Impressions	69,908
LiveWell For Your Health Website Views	14,829
Adolescent Health Centers	
Brethren Wellness Center; Chippewa Hills Wellness Center; Hart Adolescent Wellness Center; Lake City Wellness Center; Manton/Mesick Wellness Centers; Shelby Adolescent Health Center; Viking Wellness Center; Wexford Adolescent Wellness Center	
Medical Services	2,098
Behavioral Health Services	2,102
Oral Health	
Oral Health Screenings, Oceana County Schools	1413
Community Connections HUB	
Referrals	1,558
Client Encounters	5,371
Substance Abuse Prevention Services	
(Mason, Lake, Oceana, Missaukee, Wexford Counties)	
Community Education—Adults Reached:	3,426
School Programs—Students Reached:	443
Youth Summit Attendees:	96
Alcohol Server Training—Trainers Certified:	52
Active Community Coalitions: (meet average 10 times/year)	7
Medical Marijuana Education—Total reached through outdoor media	1,116,576

## PERSONAL HEALTH SERVICES

Immunizations	
Vaccines Administered	9,414
Influenza Vaccines Administered	5,174
Home Visiting Programs	
Maternal Infant Health Program (MIHP), Healthy Futures, Healthy Families America	
MIHP Maternal Clients	711
MIHP Maternal Visits	3,161
MIHP Infant Clients	564
MIHP Infant Visits	6,796
Healthy Futures Clients	549
Healthy Futures Phone Calls	385
Healthy Futures Home Visits	96
Healthy Families America Clients	77
Healthy Families America Visits	1,403
Hearing and Vision	
Preschool Hearing Screenings	2,348
School Hearing Screenings	6,102
Preschool Vision Screenings	2,360
School Vision Screenings	12,603
Family Health Programs	
Family Planning Program Participants	1,480
Breast and Cervical Cancer Program Participants	398
Cancers Found	12
Colorectal Cancer Program Participants	78
WISEWOMAN Program Participants	89





**CRAWFORD COUNTY**

501 Norway St., Ste. 1  
Grayling, MI 49738  
989-348-7800

**KALKASKA COUNTY**

625 Courthouse Dr.  
Kalkaska, MI 49646  
231-258-8669

**LAKE COUNTY**

5681 S. M-37  
Baldwin, MI 49304  
231-745-4663

**MANISTEE COUNTY**

385 Third St.  
Manistee, MI 49660  
231-723-3595

**MASON COUNTY**

916 Diana St.  
Ludington, MI 49431  
231-845-7381

**MECOSTA COUNTY**

14485 Northland Dr.  
Big Rapids, MI 49307  
231-592-0130

**MISSAUKEE COUNTY**

6180 W. Sanborn Rd. Ste. 1  
Lake City, MI 49651  
231-839-7167

**NEWAYGO COUNTY**

1049 Newell St..  
White Cloud, MI 49349  
231-689-7300

**OCEANA COUNTY**

3986 N Oceana Dr.  
Hart, MI 49420  
231-873-2193

**WEXFORD COUNTY**

521 Cobb St.  
Cadillac, MI 49601  
231-775-9942



[www.dhd10.org](http://www.dhd10.org)

