



Kanabec County Board of Commissioners

Regular Meeting Agenda

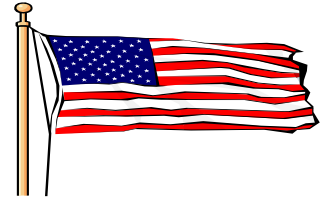
July 16, 2024 9:00am

- The public may join the meeting via WebEx or in-person in the meeting room.
- If attending the meeting in-person, the total number of persons (including commissioners) may be limited and social distancing/safety protocol may be in effect.

To be held via WebEx telephone call or video meeting:

Telephone call-in number for public access: 1-408-418-9388

Access Code: 2493 644 7440



Video Meeting link:

<https://kanabecounty.webex.com/kanabecounty/j.php?MTID=mffeabb2f451ba75f5940e9ef8e2c437e>

Meeting number: 2493 644 7440

Password: NZsGM2Vtk45 (69746288 when dialing from a video system)

To be held at: Kanabec County Courthouse
Boardroom #164
317 Maple Avenue East
Mora, MN 55051

Please use the Maple Ave entrance and parking lot.

Scheduled Appointments: Times are approximate and time allotted to each subject will vary. Appointment times may be changed at the discretion of the board.

- 9:00am
- a. Call to Order
 - b. Pledge of Allegiance
 - c. Agenda approval

The audience is invited to join the board in pledging allegiance:

I pledge allegiance to the flag of the United States of America, and to the Republic for which it stands: one nation under God, indivisible with Liberty and Justice for all

- 9:02am **Public Comment** Telephone call-in number for public access: 1-408-418-9388
Access Code: 2493 644 7440

- 9:20am Recess County Board to a time immediately following the Family Services Board.
Family Services Board

- 9:40am Tina Von Eschen, Assessor-
- a. Request approval of agreement to use outside counsel for tax court representation
 - b. Set fee for 2025AY and consider a resolution to move to True County
 - c. Department update

10:00am Tim Jacobs, Deputy Auditor- Property & Tax - DNR study request update

10:15am Kim Christenson, HR Specialist- Request approval of job description evaluation results
a. Community Health Supervisor
b. Community Health Planner/Communications Coordinator

10:20am Chad Gramentz, Public Works Director – House demolition/moving bids

Other business to be conducted as time is available:

1. Minutes – a. July 2, 2024
b. July 11, 2024
2. Paid Bills
3. Regular Bills- Revenue Fund
4. Regular Bills- Road & Bridge Fund
5. SCORE Claims – May
6. Request to approve an agreement with the City of Mora for EDA services
7. Future agenda items
8. Discuss any other matters that may come before the County Board
9. Adjourn

Kanabec County Family Services

905 East Forest Avenue, Suite 150
Mora, MN 55051
Phone: 320-679-6350
Fax: 320-679-6351

Kanabec County Family Services Board

Agenda

July 16, 2024

9:20 a.m.

- | | |
|---------------------------------------------------|-----------------|
| 1. Agenda Approval | Pg. 1 |
| 2. Director's Report | Pg. 2-3 |
| -Staffing – Fully staffed | |
| -MTM Exploration Update | |
| -Ongoing Number of Children in Placement – 20 | |
| 3. Family Service Fund Report | |
| -See attached report | Pg. 4 |
| 4. Financial Report | |
| -See attached report | Pgs. 5-6 |
| 5. Abstract Approval | |
| -See attached abstract and board vendor paid list | Pgs. 7-9 |
| 6. Other Business | |
| 7. Adjourn | |

Family Services Director's Report

July 2024

Staffing:

We are fully staffed.

MTM Exploration Update

As we continue to examine Medical Transportation Management (MTM) as a clearinghouse for medical assistance (MA) rides and mileage reimbursements, we have hit a point at which we'd like your support before we proceed. To utilize MTM, we would need to join the Metro Consortium of counties. This consortium includes many of the counties within our region. MTM supports us joining the consortium, however, Hennepin County, the administrating agency for the consortium contract, has indicated they do not wish to expand currently. Even so, we do have the support of other Family Service agencies and others within the region to join. This support comes from the majority of those who are within the Metro Consortium. Our experience in this is not unlike that of other counties who have joined. With the support we've received and knowing this has been done before, all indications suggest we should be approved to join when the consortium can convene on the matter.

Contracting with MTM would do the following:

- Eliminate mileage reimbursement/prior authorization processing that the eligibility and fiscal departments do which will:
 - o Save time in these departments
 - o Reduce risk for non-covered MA rides provided and not being able to get reimbursement for rides due to MA or provider issues
 - o Provide faster reimbursement to clients and providers
- Expand our availability of transportation providers with access to the entire MTM network
 - o In communication with Helen P. and Kathy B., Timber Trails is not budgeting for a volunteer driver program next year
- Utilize funds we already contribute towards transportation in a way that is more in line with the services and benefits counties receive when expending these funds
 - o We contribute \$37,800 to Timber Trails without receiving the administrative services mentioned
 - We then retain \$7,800 in our budget to cover the costs of the MTM services mentioned above and eliminate the risk of unpaid rides. This would be a \$30,000 reduction in the Family Services budget.

There is a shortage of volunteer drivers and available rides statewide. Switching to MTM will not completely solve our need, but with access to additional providers through the MTM network, we believe it may lead to a few more rides being available in our county. This is largely due to MTM operating in all surrounding counties.

I would ask for support to continue engagement with MTM and the Metro Consortium to gain the option for admittance. The reason I'm bringing this forward now is to be able to let the consortium members know we have initial Board support for a potential contract. My plan would be to bring back updates and/or the formal contract/proposal in the next couple of months for your final decision on whether to move forward or not.

Please let me know if you have any questions. I'd be glad to do any additional research gathering if you may have any concerns with moving forward.

Children in out-of-home placement:

Placement	Number
Foster Family Home - Relative and Non-Relative	13 This Month 16 Last Month 19 Last Year
Foster Family Home - Corporate/Shift Staff	1 This Month 1 Last Month 1 Last Year
Group Home - Staff Operated	3 This Month 4 Last Month 3 Last Year
Residential Program	2 This Month 2 Last Month 3 Last Year
Juvenile Correctional Facility	1 This Month 1 Last Month 1 Last Year
Total	20 This Month 24 Last Month 27 Last Year

Foster Family Home - Relative: Children are placed in the home of a relative and that relative has gone/is going through the foster care licensing process. Licensed non-family homes are in this count as well.

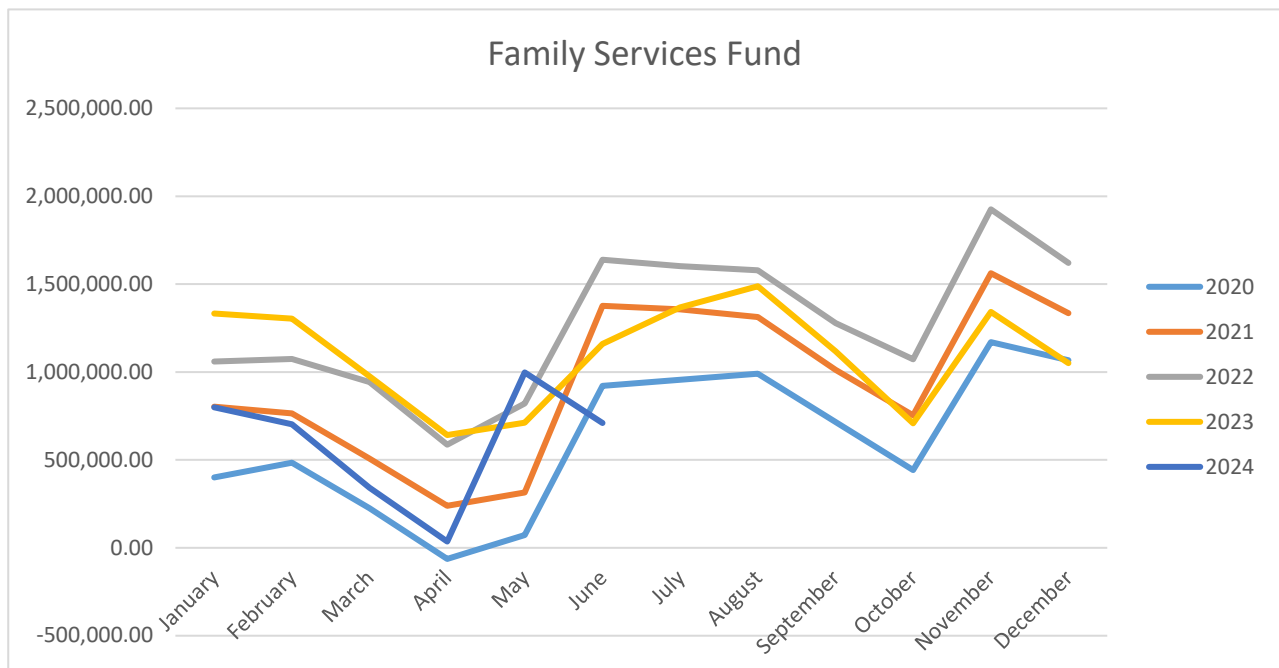
Foster Family Home - Corporate: Corporate foster care is foster care in which the primary license holder does not reside in the residence, and the foster care home is operated by a corporation with shift staff delivering services to clients.

Group Home - Staff Operated: A group home, congregate living facility, care home, adult family home, etc., is a structured and supervised residence that is operated by staff and not family. They have higher levels of care than foster homes can provide.

Residential Program: Provides temporary care or treatment to children in a group setting when not living with a parent or guardian. Services include supervision, food, lodging, training, education, or treatment.

Juvenile Correctional Facility: Non-secure detention temporarily houses juveniles for safe custody, who are accused of breaking laws and have a criminal record. These are probation placements and have been ordered by the court to be in this setting.

	2020	2021	2022	2023	2024
January	401,131.39	802,602.99	1,060,669.83	1,332,846.30	799,813.22
February	483,781.08	764,375.81	1,074,400.99	1,303,079.82	703,104.94
March	225,078.17	507,711.89	942,838.71	976,432.91	343,023.73
April	-63,141.11	239,129.82	586,755.76	641,596.45	35,838.62
May	73,382.15	313,993.85	820,322.23	711,400.40	997,813.55
June	920,867.09	1,376,518.14	1,638,762.92	1,159,594.67	709,232.66
July	955,700.06	1,355,779.92	1,603,064.80	1,366,971.18	
August	990,235.56	1,312,346.82	1,578,429.94	1,487,944.78	
September	716,408.79	1,012,985.41	1,277,604.14	1,118,266.82	
October	443,084.51	753,774.16	1,072,396.60	707,480.12	
November	1,170,024.75	1,562,104.61	1,925,516.68	1,342,363.76	
December	1,067,709.00	1,335,030.43	1,620,823.12	1,051,493.18	
Totals	7,384,261.44	11,336,353.85	15,201,585.72	13,199,470.39	3,588,826.72
Averages	615,355.12	944,696.15	1,266,798.81	1,099,955.87	598,137.79
6 month Avg.	890,527.11	1,222,003.56	1,512,972.55	1,179,086.64	598,137.79
Rolling 12 month Avg	615,355.12	944,696.15	1,266,798.81	1,099,955.87	888,612.21



Kanabec County Family Services - Board Financial Report				Through June 2024					
	Total year to date/			8.33%	16.67%	25.00%	33.33%	41.67%	50.00%
Department	Budget	% of budget	Total	January	February	March	April	May	June
Income Main. Service									
Exp	860,797.00	51.90%	446,757.77	63,394.74	66,342.85	63,141.49	94,579.56	90,692.06	68,607.07
Rev	400,920.00	46.67%	187,128.35	11,279.78	75,999.45	11,279.78	11,921.63	64,726.08	11,921.63
Tax	453,352.92	53.15%	240,978.92	21,423.86				219,555.06	
State Shared Rev			0.00						
Recoveries									
Exp	12,200.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rev	16,400.00	-12.38%	-2,029.61	371.32	8,471.71	2,869.84	-4,999.68	-8,792.80	50.00
Tax	24,645.34	53.55%	13,196.38	1,287.58				11,908.80	
State Shared Rev			0.00						
Burials									
Exp	25,000.00	43.52%	10,879.62	2,000.00	2,669.62	4,210.00	2,000.00	0.00	0.00
Rev			0.00						
Tax			0.00						
Child Support									
Exp	385,670.00	50.92%	196,367.39	28,822.41	31,608.54	28,838.75	42,231.51	40,028.55	24,837.63
Rev	404,000.00	47.99%	193,865.62	17,088.66	68,654.51	17,320.08	18,736.85	53,715.35	18,350.17
Tax									
MA Services									
Exp	483,900.00	38.04%	184,093.85	27,843.91	35,962.82	30,218.37	30,029.64	34,090.47	25,948.64
Rev	476,000.00	32.82%	156,231.33	46,057.98	-8,354.59	14,188.70	27,847.89	19,320.14	57,171.21
Tax	7,787.93	72.23%	5,625.16	1,835.99				3,789.17	
State Shared Rev			0.00						
Child Care									
Exp	230,950.00	25.52%	58,941.71	99.00	7,801.53	1,942.75	36,138.06	12,861.37	99.00
Rev	232,699.00	32.95%	76,664.06	363.50	411.00	326.50	72,575.31	2,459.75	528.00
Tax			11.92	11.92					
State Shared Rev			0.00						
Fraud									
Exp	81,122.00	49.39%	40,062.19	6,145.03	6,293.09	6,207.67	6,207.67	8,906.95	6,301.78
Rev	2,500.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tax	77,506.63	54.01%	41,858.80	4,291.93				37,566.87	
State Shared Rev			0.00						
Adult Services									
Exp	5,500.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rev	13,385.00	34.97%	4,680.75	1,021.41	590.25	958.86	21.41	899.21	1,189.61
Tax									
Dev. Disability									
Exp	71,500.00	60.67%	43,376.79	2,930.40	4,861.92	11,462.90	7,406.93	8,546.97	8,167.67
Rev	52,847.00	25.64%	13,549.00	0.00	6,847.00	0.00	0.00	6,702.00	0.00
Tax	18,388.38	54.63%	10,045.82	1,168.36				8,877.46	
State Shared Rev			0.00						

Mental Health									
Exp	1,300,634.00	59.38%	772,353.49	143,087.20	144,242.09	119,447.51	113,832.79	142,977.39	108,766.51
Rev	873,649.00	50.56%	441,674.02	29,947.54	62,391.07	24,144.12	82,204.71	202,453.03	40,533.55
Tax	420,927.56	54.27%	228,416.44	24,559.35				203,857.09	
State Shared Rev			0.00						
Chemical Dependency									
Exp	41,000.00	16.54%	6,781.99	3,242.91	0.00	-625.00	1,653.00	1,029.49	1,481.59
Rev	16,600.00	62.25%	10,333.56	5,771.29	939.60	727.73	807.05	0.00	2,087.89
Tax	24,053.85	54.80%	13,182.53	1,490.25				11,692.28	
State Shared Rev			0.00						
Child Services									
Exp	570,701.00	61.93%	353,448.82	60,067.76	54,068.64	55,013.91	66,842.34	65,278.23	52,177.94
Rev	337,220.00	31.92%	107,657.24	9,093.51	40,617.66	15,783.42	7,037.58	28,317.81	6,807.26
Tax	230,168.71	55.54%	127,830.96	16,321.24				111,509.72	
State Shared Rev			0.00						
Social Services									
Exp	1,604,407.00	49.21%	789,607.92	127,802.86	124,837.94	123,466.64	123,909.29	169,319.32	120,271.87
Rev	1,447,543.00	38.43%	556,357.39	58,963.13	150,460.23	65,240.42	71,931.88	142,576.32	67,185.41
Tax	154,638.64	53.00%	81,951.20	7,033.99				74,917.21	
State Shared Rev			0.00						
Income Main. Admin									
Exp	101,623.00	52.40%	53,247.73	8,255.67	8,459.31	8,304.67	8,235.86	11,670.92	8,321.30
Rev	44,700.00	49.18%	21,984.23	1,121.67	9,179.47	1,121.24	1,174.24	6,888.37	2,499.24
Tax	56,115.45	53.52%	30,035.01	2,861.28				27,173.73	
State Shared Rev			0.00						
Social Services Admin.									
Exp	271,214.00	46.42%	125,899.39	19,416.92	19,995.41	20,032.42	19,946.74	27,997.12	18,510.78
Rev	65,000.00	44.32%	28,807.00	0.00	15,352.00	0.00	0.00	13,455.00	0.00
Tax	203,288.53	54.08%	109,939.58	11,421.29				98,518.29	
State Shared Rev			0.00						
FS Admin									
Exp	708,374.00	45.59%	322,982.69	62,909.65	46,611.96	46,226.80	47,602.72	69,252.35	50,379.21
Rev	136,075.00	46.97%	63,910.04	3,798.55	26,040.08	3,846.35	4,004.13	22,214.55	4,006.38
Tax	564,180.06	52.96%	298,766.06	25,513.12				273,252.94	
State Shared Rev			0.00						
Agency Totals									
Exp	6,754,592.00	50.41%	3,404,801.35	556,018.46	553,755.72	517,888.88	600,616.11	682,651.19	493,870.99
Rev	4,519,538.00	41.17%	1,860,812.98	184,878.34	457,599.44	157,807.04	293,263.00	554,934.81	212,330.35
Tax	2,235,054.00	53.77%	1,201,838.78	119,220.16	0.00	0.00	0.00	1,082,618.62	0.00
State Shared Rev			0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Revenue	6,754,592.00	45.34%	3,062,651.76	304,098.50	457,599.44	157,807.04	293,263.00	1,637,553.43	212,330.35

July 2024 Board Report

Vendor	Description	Amount	
Bergstadt Rhonda	April & May 2024 Employee Mileage	\$644.54	
DNA Diagnostics Center	Child Support Genetic Testing Fees	\$81.00	
Kwik Trip	Client Transportation	\$576.00	
McDermeit Alilssa	Employee Mileage	\$92.93	
Seidel Kurt	Employee Mileage	\$62.31	
Strelow Cheryl	Employee Mileage	\$58.96	
Anoka County Sheriff Office	CS Service Process Fee	\$80.00	
Johnson Makala	Employee Mileage	\$457.61	
Kruse Patricia	Employee Mileage	\$54.27	
Refund for Overpayment	Refund for May 2024 Overpayment	\$224.71	
Niedzielski Jennifer	Employee Mileage	\$62.58	
Struss Kristen	Employee Mileage	\$159.46	
Vojvodich Pamela	Employee Mileage	\$90.45	
Wagner Eileen	Employee Mileage	\$74.91	
Heacock Katie	Employee Mileage	\$170.85	
Kanabec County Records Office	3 Birth Certificates	\$78.00	
Lovaas Ashlee	Employee Mileage	\$115.58	
Mitchell Kelly	Employee Mileage	\$264.65	
Timber Trails	Transportation	\$1,570.68	
Vork Katie	Employee Mileage	\$363.81	
Patron Companies	Transportation	\$1,141.80	
Bottelson Chelsey	Employee Mileage	\$446.22	
Amazon Capital Services	Office Equipment	\$326.92	
Anderson Latasha	Employee Mileage	\$146.73	
DHS	Monthly Invoices	\$21,073.42	
Hartland Sonia	Employee Mileage	\$460.29	
Innovative Office Solution	Office Supplies	\$316.99	
Kanabec County Aud Treasures	Monthly Invoices	\$8,609.08	
Kanabec County Attorney	Monthly Invoices	\$6,550.20	
Kanabec County Comm Health	LCTS Invoice	\$24,570.00	
Kanabec Publications	Office Supplies	\$482.00	
LexisNexis Risk Solutions FL Inc	June 2024 User Fee	\$247.20	
Metro Sales Inc	Social services Copier Contract	\$458.49	
Molstre Ramona	Reimb Ramona for Record Notary	\$21.95	
TOTAL IFS DOLLARS	\$70,134.59	34	Total IFS Vendors
TOTAL SSIS DOLLARS	\$124,605.27	23	Total SSIS Vendors
Total	\$194,739.86		
CEHI & Medicare Part B Reimbursements	\$10,849.19	35	Ins. Reimb.Vendors
MA Medical Mileage	\$1,607.60	10	Med Mileage Vendors
Grand Total	\$207,196.65		
		102	Total Vendors

Board Approval Report

SSIS pymt. batch #: 189115000

Paid Cnty Vendor				Total Payments	Total Amount
Arrows Family Services, 000010501				4	935.00
Svc Description	Svc Code	Payments	Amount		
Parent Support Outreach Services	167	1	357.00		
Prevention Services	103	3	578.00		
ASL Interpreting Services, Inc., 000001023				2	346.00
Svc Description	Svc Code	Payments	Amount		
Adult Outpatient Psychotherapy	452	2	346.00		
Card Services, 000011484				1	65.53
Svc Description	Svc Code	Payments	Amount		
Community Support Services	434	1	65.53		
Central Minnesota Jobs & Training, 000015800				2	24,801.43
Svc Description	Svc Code	Payments	Amount		
Statewide MFIP Employment Services	237	2	24,801.43		
DHS, 000011849				2	382.45
Svc Description	Svc Code	Payments	Amount		
Behavioral Health Fund (BHF)	359	1	283.45		
Other Child Care	214	1	99.00		
DHS STATE OPERATED SERVICES, 000011816				6	10,825.20
Svc Description	Svc Code	Payments	Amount		
State-Operated Inpatient	472	6	10,825.20		
Dungarvin Minnesota, LLC, 000017781				2	1,708.20
Svc Description	Svc Code	Payments	Amount		
Children's Group Residential Care	183	2	1,708.20		
Family Pathways, 000012298				2	1,325.00
Svc Description	Svc Code	Payments	Amount		
Family-Based Counseling Services	162	2	1,325.00		
Ignaszewski/Karissa, 000012959				3	11,163.00
Svc Description	Svc Code	Payments	Amount		
Adult Outpatient Psychotherapy	452	2	8,605.86		
Child Outpatient Medication Management	455	1	2,557.14		
Jessica Stokes Inc., 000016761				3	9,522.50
Svc Description	Svc Code	Payments	Amount		
Adult Outpatient Psychotherapy	452	2	6,292.50		
Child Outpatient Medication Management	455	1	3,230.00		
Kanabec Co. Flexible Funds, 000013286				2	1,000.00
Svc Description	Svc Code	Payments	Amount		
Client Flex Funds	418	1	500.00		
Housing Services	144	1	500.00		
Kanabec County AT ACH_VISA, 000001318				3	573.60
Svc Description	Svc Code	Payments	Amount		
Client Flex Funds	418	1	200.00		
Housing Services	144	2	373.60		
Kanabec County Community Health, 000013263				1	10,093.42
Svc Description	Svc Code	Payments	Amount		
Adult Outpatient Psychotherapy	452	1	10,093.42		
Nexus-Gerard Family Healing , LLC, 000012394				1	14,214.00
Svc Description	Svc Code	Payments	Amount		

Board Approval Report

Paid Cnty Vendor				Total Payments	Total Amount
NORTHWOOD CHILDREN'S HOME, 000015202				1	12,164.40
Svc Description	Svc Code	Payments	Amount		
Children's Residential Treatment	483	1	12,164.40		
Options Residential, 000015334				1	1,462.50
Svc Description	Svc Code	Payments	Amount		
Child Family Foster Care	181	1	1,462.50		
Patron Companies, 000015495				1	528.00
Svc Description	Svc Code	Payments	Amount		
Transportation	516	1	528.00		
Prairie Lake Youth Programs, 000015767				2	15,462.00
Svc Description	Svc Code	Payments	Amount		
Correctional Facilities	185	2	15,462.00		
Premier Biotech Labs, LLC, 000015779				1	502.25
Svc Description	Svc Code	Payments	Amount		
Health-Related Services	118	1	502.25		
Procentive.com LLC, 000010757				1	627.79
Svc Description	Svc Code	Payments	Amount		
Adult Outpatient Psychotherapy	452	1	627.79		
Residential Services of NE MN Inc., 000016246				1	558.00
Svc Description	Svc Code	Payments	Amount		
Semi-Independent Living Services (SILS)	534	1	558.00		
Richardson MD/Paul T, 000016136				2	4,445.00
Svc Description	Svc Code	Payments	Amount		
Adult Outpatient Psychotherapy	452	2	4,445.00		
Volunteers Of America of MN, 000017460				3	1,900.00
Svc Description	Svc Code	Payments	Amount		
Semi-Independent Living Services (SILS)	534	3	1,900.00		
Report Totals:				47	124,605.27

I hereby certify that the above amounts have been approved and allowed by the county Welfare Board for payment to the claimant as in each instance stated that said county Welfare Board authorizes and instructs the county Auditor and county Treasurer of said county to pay the same.

Signature

Title

Date

9:40am Appointment

Item a.

July 16, 2024

REQUEST FOR BOARD ACTION

a. Subject: Request Approval for Professional Services Agreement with Richard Hodsdon, Attorney at Law	b. Origination: County Attorney's Office & Assessor's Department
c. Estimated time: 5-10 minutes	d. Presenter(s): Tina Von Eschen, Assessor

e. Board action requested:

Approve the following resolution:

Resolution #_____ - 7/16/24

Professional Services Agreement with Attorney Richard Hodsdon

WHEREAS, Kanabec County is a party in a property tax litigation case; and

WHEREAS, the County Assessor and County Attorney believe it is in the best interest of the County to secure legal counsel with experience and expertise in this specialized legal area; and

WHEREAS, the County's Unallocated budget allows for contracting with a consultant in this matter; and

WHEREAS, a highly qualified attorney has agreed to consult on the case;

THEREFORE BE IT RESOLVED to approve the Kanabec County Attorney to enter in to an agreement with Rick Hodsdon, Attorney at Law, for the terms and conditions specified within said agreement for professional legal services.

f. Background:

Attorney Hodsdon is willing to continue providing his services for the RHTC payable 2023 & 2024 tax court cases. He has proposed fees not to exceed \$15,000. 2024 budget for Tax Court has a balance of about \$18,000. Considering his knowledge with the case I would be in support of working with him on this. We have our first scheduling order deadline of July 29th, 2024 for discovery.

Supporting Documents: None **Attached:** ☒

Date received in County Coordinators Office:

Coordinators Comments:

MEMORANDUM OF AGREEMENT TO PROVIDE PROFESSIONAL SERVICES FOR
KANABEC COUNTY ATTORNEY'S OFFICE

This AGREEMENT is made and entered into by and between Kanabec County Attorney (hereinafter "COUNTY ATTORNEY), 315 Maple Avenue East, Mora, MN 55051 and Richard Hodsdon, Attorney at Law (hereinafter CONSULTANT), 2435 White Pine Way, Stillwater, MN 55082. The period of this agreement will be effective upon execution and shall remain until conclusion of the referenced Tax Court matters or until terminated by either party. The agreement shall be extended by mutual written agreement of the parties.

WITNESSETH

WHEREAS, the COUNTY ATTORNEY has a need for professional legal services in pending litigation to ensure that the accounting processes, practices and fiscal reporting are completed in a satisfactory manner to keep the Family Service Agency in compliance with State requirements, and

WHEREAS, CONSULTANT agrees to provide the following services:

1. Provide advice, consultation, and training where required to the County Attorney's Office, and perform legal services on behalf of Kanabec County in pending property tax litigation, in connection with Court File Nos. 33-CV-23-66 and 33-CV-24-56 (RHTC LLC v. County of Kanabec).
2. Ensure that all pleadings and documents are served and filed (submitted to the court) in a timely manner;
3. Perform legal research and prepare legal briefs where required or advisable.
4. Negotiate resolution by settlement agreement where advisable.
5. Ultimately try the case before the court if no settlement is reached.
6. Represent the county in any and all post-decision matters.
7. Examine and evaluate appellate issues.

NOW, THEREFORE, it is agreed by and between the parties hereto that:

1. This agreement may be cancelled by either party at any time, with or without cause, upon thirty (30) days written notice to the other party.
2. Any amendments to this agreement shall be in writing and shall be executed by the same parties who executed the original agreement, or their successors in office.
3. CONSULTANT agrees to defend, indemnify, and hold Kanabec County, its employees and officials harmless from any claims, demands, actions or causes of action, including reasonable attorney's fees and expenses arising out of any act or omission on the part of CONSULTANT or its subcontractors, partners or independent contractors or any of its agents or employees in the performance of or with relation to any of the work or services to be performed or furnished by CONSULTANT or the subcontractors, partners or independent contractors or any of its agents or employees under the agreement.
4. Even though the Contractor agrees to serve as a Special Assistant Kanabec County Attorney nothing in this Agreement shall create an employee/employer relationship between the

COUNTY and CONSULTANT. It is the parties' intention that the CONSULTANT be an independent contractor.

5. CONSULTANT shall not assign any interest in the Agreement and shall not transfer any interest in the same, whether by assignment or invitation, without the prior written approval of the COUNTY.
6. The COUNTY will reimburse CONSULTANT for consulting time up to a maximum of \$15,000.00. CONSULTANT will be compensated at the rate of \$225.00/hour as billed in .10 increments.
7. The COUNTY shall provide CONSULTANT with the assistance of its support staff, and access to office space when needed,

It is understood and agreed that the entire agreement of the parties is contained herein and that this agreement supersedes all oral agreements and negotiations between the parties relating to the subject matter hereof.

IN WITNESS WHEREOF, the COUNTY and CONSULTANT have executed this agreement as of the day and year first above written.

COUNTY OF KANABEC

CONSULTANT

Date
Chair, Board of Commissioners

S/Richard Hodsdon
Richard Hodsdon
2435 White Pine Way,
Stillwater, MN 55082

7/16/2024
Date

ATTESTED BY:

Kris McNally
Kanabec County Coordinator
Date

APPROVED BY:

Barbara McFadden
Kanabec County Attorney
Date

9:40am Appointment

Items b. & c.

July 16, 2024

REQUEST FOR BOARD ACTION

Subject: b. Set fee for 2025AY and move to True County c. Department update	b. Origination Assessor's Office
c. Estimated time: 10 minutes	d. Presenter(s): Tina Von Eschen, Assessor

e. Board action requested:

Item b – Pass resolution leaving per parcel fees to remain \$8/parcel for the 2025 assessment year and move to a True County assessment as of the 2026 assessment.

Item c – no action, information provided.

f. Background:

Item b – Here are the historical fees per parcel we have charged jurisdictions:

2013AY @ \$6.75/parcel

2014-2017AY @ \$7.00/parcel

2018-2019AY @ \$7.25/parcel

2020-2021AY @ \$7.50/parcel

2022-2024AY @ \$8.00/parcel – Approved a \$3/parcel maintenance fee if contract with Local Assessor

I have researched statute and to transition to a True County assessment which will eliminate billings would involve a resolution today taking affect the 2nd assessment following. A resolution to go True County today would transition to eliminating billings as of the 2026AY (which would be collected in 2027).

It was requested to come back with an estimate of time to do the billings. We estimate that to be around five hours annually, which may not seem excessive but it is not continuous time spent, it is sporadic, and in light of the recent job description changes we've made to the technician position this will give her five additional hours to dedicate to her other duties.

Item c – Department update & budget

Supporting Documents: None Attached: ☒

Date Received in County Coordinator's Office:

Coordinators Comments:

273.055 RESOLUTION TO APPOINT ASSESSOR; TERMINATION OF LOCAL ASSESSOR'S OFFICE.

The election to provide for the assessment of property by the county assessor as provided in section 273.052 shall be made by the board of county commissioners by resolution. Such resolution shall be effective at the second assessment date following the adoption of the resolution. Notwithstanding any other provisions contained in any other section of law or charter, the office of all township and city assessors in such county shall be terminated 90 days before the assessment date at which the election becomes effective, except that if part of such taxing district is located in a county not electing to have the county assessor assess all property as provided in section 273.052, the office will continue but shall apply only to such property in a nonelecting county.

No township or city assessor in another county shall assess any property in an electing county, but shall turn over all tax records relating to property to the county assessor 90 days before the assessment date at which the county's election becomes effective.

History: 1969 c 989 s 4; 1973 c 123 art 5 s 7

kelsey
7/11/24 1:12PM

**** Kanabec County ****



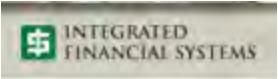
REVENUES & EXPENDITURES BUDGET REPORT As of 06/2024

Report Basis: Cash

1 FUND General Revenue Fund

<u>Account Number</u>		<u>Status</u>	<u>Quarter To Date</u>	<u>Year To Date</u>	Percent of Year <u>Budget</u>	50% <u>% of BDG</u>
102 DEPT	Assessor					
----- REVENUES -----						
01-102-000-0000-5501	Fees For Services		827.71-	1,272.31-	96,100.00-	1
01-102-000-0000-5830	Misc Revenues		15.00-	15.00-	50.00-	30
----- EXPENDITURES -----						
01-102-000-0000-6103	Salaries - Regular		107,284.49	205,750.02	449,175.00	46
01-102-000-0000-6105	Salaries - Part Time		0.00	3,997.30	0.00	0
01-102-000-0000-6107	Salaries - Overtime		0.00	167.94	0.00	0
01-102-000-0000-6113	Flex Pay		1,902.36	4,055.34	0.00	0
01-102-000-0000-6130	VEBA - County Share		1,908.00	4,134.00	0.00	0
01-102-000-0000-6153	Co Share Health Ins		11,009.52	23,353.28	72,415.00	32
01-102-000-0000-6158	Health Reserves - County Share		600.00	1,250.00	0.00	0
01-102-000-0000-6163	Co Share Pera		8,046.33	15,641.82	34,025.00	46
01-102-000-0000-6175	Co Share Fica		8,256.06	16,179.72	34,706.00	47
01-102-000-0000-6204	Cellular Phones		385.72	771.49	1,800.00	43
01-102-000-0000-6205	Postage		531.00	674.17	4,000.00	17
01-102-000-0000-6211	Services & Charges		1,931.01	8,558.04	13,200.00	65
01-102-000-0000-6289	Staff Development		820.07	1,925.46	12,000.00	16
01-102-000-0000-6331	Mileage & Meals		177.55	759.14	3,500.00	22
01-102-000-0000-6341	Rental & Service Contracts		378.26-	378.26-	3,000.00	-13-
01-102-000-0000-6405	Computers & Hardware		0.00	0.00	4,000.00	0
01-102-000-0000-6406	Software		0.00	1,300.00	2,500.00	52
01-102-000-0000-6411	Supplies		1,344.51	1,601.09	2,800.00	57
01-102-000-8250-6323	Maint Serv - Leased Vehicles		221.88	443.76	900.00	49
01-102-000-8250-6341	Contracts & Leases		872.28	1,845.86	0.00	0
01-102-000-8250-6575	Addn Car Expenses - Leased Vehicles		0.00	333.25-	150.00	222-
01-102-000-8250-6692	Vehicle Leases		1,524.99	3,049.98	0.00	0
01-102-000-8250-6751	Principal - Vehicle Leases		0.00	0.00	6,200.00	0
----- REVENUES -----						
01-102-035-0000-5501	Fees For Services		895.00-	1,600.00-	3,600.00-	44
102 DEPT	Totals Assessor	Revenue	1,737.71-	2,887.31-	99,750.00-	3
		Expend.	146,437.51	294,746.90	644,371.00	46
		Net	144,699.80	291,859.59	544,621.00	54

**** Kanabec County ****



REVENUES & EXPENDITURES BUDGET REPORT As of 06/2024

Report Basis: Cash

1 FUND		General Revenue Fund					Percent of Year	50%
<u>Account Number</u>			<u>Status</u>	<u>Quarter</u> <u>To Date</u>	<u>Year</u> <u>To Date</u>		<u>Budget</u>	<u>% of</u> <u>BDG</u>
1 FUND		Totals General Revenue Fund	Revenue	1,737.71 -	2,887.31 -		99,750.00 -	3
			Expend.	146,437.51	294,746.90		644,371.00	46
			Net	144,699.80	291,859.59		544,621.00	54
FINAL TOTALS		26 Accounts	Revenue	1,737.71 -	2,887.31 -		99,750.00 -	3
			Expend.	146,437.51	294,746.90		644,371.00	46
			Net	144,699.80	291,859.59		544,621.00	54

10:00am Appointment

July 16, 2024

REQUEST FOR BOARD ACTION

a. Subject: DNR Study Request Update	b. Origination: Auditor/Treasurer's Office
c. Estimated time: 15 minutes	d. Presenter(s): Tim Jacobs, Deputy Auditor Property & Tax

e. Board action requested:

Discuss the DNR study request.

Grant permission to allow or deny the request.

f. Background:

Provide further details regarding timeline and

- Additional outline/info from the biologist
- Full monitoring protocol

Supporting Documents: None Attached: ☒

Date received in County Coordinators Office:

Coordinators Comments:

Here are some more details of our work. I have also attached the full protocol if you need to reference anything.

- In the past, we have not drafted any liability or contractual language for work on public lands (county, state, federal). We had to do this once when doing work on private forest industry (Meriwether Timber), but they were owned by a non-Minnesota corporation and their attorneys were unfamiliar with who we are.
- Our work is low risk. There will be four DNR employees and we hike into the site location. Most of our work is passive: recording plant species, estimating cover, measuring tree diameters. If allowed, our permanent marking materials are 6 1-ft rebar sunk flush into the ground at the six plot corners and 18 aluminum tree tags nailed into trees to geo-reference where the plot corners are located.
- The work is tentatively scheduled for the week of July 31 but can be moved up to 3 days later. The work will take only one day. Revisiting the plot would occur no sooner than 10 years. The plot is landlocked and surrounded by private property. We would need to get permission from the landowner NE of the plot off of Well St. (Elmer or Dale Klar).
- Our work does not restrict usage of the county. The county may continue to do business as usual, whether that is timber harvests or selling the property all together. In 10 years, it is the responsibility of the DNR to contact the current landowner to attain permission anew for plot re-sampling.
- We will provide to the county our data attained from the work at this location. Probably by the end of the calendar year.

-Jeff

Jeffrey Lee

Plant Ecologist and Botanist | Minnesota Biological Survey, Division of Ecological & Water Resources

Minnesota Department of Natural Resources

4805 Rice Lake Road

Duluth, MN 55803

Phone: 218-514-4468

Cell: 248-701-4362

Email: jeffrey.lee@state.mn.us

Minnesota Ecological Monitoring Network (EMN)

Background and Standard Operating Procedures



Prepared by Erika Rowe, EMN Coordinator
Updated March, 2022





Funding for this project was provided by the Minnesota Environment and Natural Resources Trust Fund as recommended by the Legislative- Citizen Commission on Minnesota Resources (LCCMR). The Trust Fund is a permanent fund constitutionally established by the citizens of Minnesota to assist in the protection, conservation, preservation, and enhancement of the state's air, water, land, fish, wildlife, and other natural resources.

Table of Contents

Background and Objectives	5
Background and History.....	5
Measurable Objectives	5
Means Objectives	6
Sampling Design.....	7
Sampling Design Rationale.....	7
Site selection and sampling frame.....	8
Sampling Frequency and Replication	10
Detectable Levels of change.....	10
Field Methods	10
Sampling Design	10
General Criteria for establishing sampling sites in the field.....	13
Moving plots in the field	14
Initial Plot Establishment	15
Limiting transport of non-native species or other material	17
Permanently marking plots.....	17
Forest Sampling Criteria, Plot Establishment and Response Design.....	19
Forest Response Design	19
Recording General Plot Characteristics.....	20
Canopy Tree Measurements	22
Ground Layer Quadrat Measurements	31
When there is no data or quadrats cannot be sampled.....	34
Unknown species.....	35
Coarse Woody Material	35
Direct Browse Data and Shrub Frequency.....	39
Additional Species Walkthrough	40
Earthworm Assessment	42
Grassland Sampling Criteria and Plot Establishment.....	45
Grassland Response Design and Data Collection	45
Visual Obstruction Reading	46
Tree Measurements (if applicable).....	46

Quadrat Measurements.....	47
Direct Browse and Shrub Frequency	47
Coarse Woody Material (if applicable)	47
Additional Species Walkthrough	47
Open Wetland Criteria and Plot Establishment	47
Wetland Response Design and Data Collection.....	48
Surface Water Chemistry Sampling.....	49
Tree Measurements (if applicable).....	50
Quadrat Measurements.....	50
Direct Browse and Shrub Frequency	50
Coarse Woody Material (if applicable)	50
Additional Species Walkthrough	50
References	51
Appendix A. Accepted list of complex species groups for the field	53

Background and Objectives

Background and History

Our state is facing many new challenges, including climate change, the introduction and spread of invasive species, and increasing fragmentation and pressure on land and water use.

Addressing these challenges requires an understanding of the overall health of Minnesota's natural resources and the major issues that are impacting them. Additionally, land managers are confronted with increasingly complex and challenging issues that require a broad-based understanding of the status and trends of our natural resources as a basis for making decisions and working with other agencies and the public for the long-term protection of Minnesota's ecosystems.

Up to this point, there has not been a comprehensive statewide monitoring network that consistently measures and evaluates changes in vegetation that spans native grasslands, wetlands, and forests. Without such information, it will be increasingly difficult to detect which factors are driving environmental changes. Knowing the status and trends in plant communities of any terrestrial ecosystem is critical to understanding the health of most other biotic components of an ecosystem, because vegetation is sensitive to many stressors. A well-planned monitoring program will ideally provide an early warning of undesirable change to managers, conservation planners, etc.

The Environment and Natural Resources Trust Fund provided initial funding to develop and test such a monitoring program to track long-term trends in vegetation, which began in July 2016. The monitoring project is being led by the DNR's Minnesota Biological Survey, a program in the Ecological and Water Resources Division. It also includes active participation by other DNR divisions and a wide range of partners from a variety of agencies and organizations.

The statewide monitoring network will fill data gaps and add to data collected by existing regional or habitat-specific monitoring and biological inventory efforts (e.g., Sustaining Lakes in a Changing Environment, Wetland Status and Trend Monitoring, Minnesota Wetland Condition Assessment, State Wildlife Action Plan Prairie Monitoring, U.S. Forest Service Forest Inventory and Analysis, DNR Cooperative Stand Assessment). Bridging these efforts with systematic statewide information will place existing habitat monitoring and research into statewide context, provide fundamental baseline data, and improve and prioritize data collection. This will increase the value of all monitoring and research and expand the scope of information for natural resource planning and management.

Measurable Objectives

Plant community composition and structure monitoring comprises the core of this vegetation monitoring effort. This document details our plans to track change and detect trends in the number, identity, and relative abundance of plant species, as well as their horizontal cover and vertical structure across the forests, wetlands and grasslands in Minnesota. The broad, scientifically based information obtained through this monitoring program will have multiple applications for management decision-making, research, education, and promoting public

understanding of resources. Furthermore, to be relevant to current management issues and anticipate future issues, monitoring programs must be scientifically credible and produce quality data that is readily accessible and explicitly linked to management decision-making processes.

To meet these criteria, our monitoring objectives are driven by a primary question: How are vegetation composition, structure, and plant demography changing over time in relation to weather, climate, landscape dynamics, invasive species, deer browse, and natural processes such as succession? The means objectives listed below were established to meet this overarching question and hopefully designed to help us meet our fundamental objective: *To conserve healthy native grasslands, wetlands, and forest.*

Means Objectives

Vegetation

- What is the rate and direction of change in our native plant communities? We will measure species richness and diversity and test for change in these variables as well as shifts in the relative abundance and dominance of species groups (native vs. non-native species, forb to graminoid to woody species ratio). Tracking shifts in overall community composition will also help us understand whether sites are converging in native understory composition between sample periods, which may reflect biotic homogenization. This is a phenomenon now broadly recognized as the process by which ecosystems begin to lose their biological uniqueness, where richness and/or diversity decreases and species similarity increases over space and time (Olden and Rooney 2006).
- What is the rate and direction of change of key native and non-native species? We will measure species abundance (frequency) and test for change between and among sample periods. This will allow us to determine whether individual species are increasing, in decline, or remaining constant.
- Document the status and trends in the proportion of monitoring plots that have non-native invasive plant species and track shifts in non-native species presence and abundance.
- Determine the rate and direction of change of plant community structure. We will examine the size distributions (basal area) of trees and the status of regeneration of individual species, as well as for all trees, to identify shifts in forest structure. This will help us understand both regeneration and succession. It will also allow us to infer potential drivers of change and, thus, potential threats.
- Track growth and mortality rates of key tree species and document the relative density of certain species known to be either increasing or decreasing across the state (e.g., red maple appears to be increasing and conversely oak species are in decline).
- Document status and trends in the volume of coarse woody debris.

Landscape Context and Ecological Integrity Assessment

- Determine relationships between landscape context (e.g., size of area surrounding plot and proximity of anthropogenic land use to natural area) and changes in native grassland, wetland, and forest vegetation. This is currently a work in progress and we will work to develop an Ecological Integrity Assessment score based on landscape and plot level vegetation. See Faber-Langendoen et al. 2016; Rocchio and Crawford 2016.

Landform and Substrate

- Qualitatively assess topographic position and aspect at the onset of monitoring.
- In upland forests, assess forest floor condition by documenting litter type and depth and visually inspecting for compaction and exposed bare soil and earthworm activity.

Water Chemistry and Hydrology

- Assess hydrology and its relationships to trends in wetland vegetation.
- Assess trends in surface water pH, specific conductivity and temperature in wetlands as a possible means to explain changes in vegetation.

Pollinators and Other Wildlife

- Collect baseline surveys of select groups of pollinating insect species occurring in targeted vegetation types, such as Hymenoptera and Lepidoptera.
- Document status and trends in high priority vegetation characteristics related to wildlife habitat such as the density of tree snags and presence of leaf litter.
- Determine long-term changes in magnitude and extent of browse on vegetation.
- To what degree are ungulates browsing woody vegetation and which species are more impacted? We will assess the frequency at which woody species are browsed and relate this to changes in plant species, communities, and community structure.

Terrestrial Pests and Pathogens

- Which pests and pathogens are present and on which tree species in forested monitoring plots? We will look for signs and symptoms of major causal agents of tree damage.
- What is the extent of pest and pathogen damage on trees? We will calculate the percentage of trees that are impacted, and note the severity of these impact(s).
- How are earthworms impacting soils and plant communities in forested areas? We will look for evidence of the presence of earthworms and relate this, when possible, to frequencies of understory herbs and of seedlings.

Lichens and Bryophytes

- Collect baseline surveys in select plots to document dominant bryophytes and lichens to determine the rate and direction of change of these two groups. However, due to limited time, expertise, and funding, we have not been able to develop specific protocols for this objective. It is something we hope to advance further in the coming years.

Sampling Design

Sampling Design Rationale

The EMN Vegetation Monitoring Network is designed to monitor vegetation in a standardized and cost-efficient manner and to provide statistical inferences of status and trends within and across the state with sufficient power to detect change. Sampling will occur at randomly selected, permanent plot locations, which will also help to increase power to detect trends over time.

We initially sought a design that would be a flexible method for recording vegetation composition and structure, but which could be modified depending on the habitat. However, due to the successional nature of plant communities, it was decided that the response design should not be significantly different as it may necessitate having to change the response design over time to accommodate this change. Furthermore, if the protocol is kept sufficiently general, data collected from divergent community types such as forests and grasslands will be directly comparable (Peet et al. 1998).

The protocol has been specifically designed to facilitate comparison of EMN data with other agencies within the state such as that from the United States Forest Service (USFS) Forest Inventory and Analysis (FIA) Program and the National Park Service (NPS) Great Lakes Region.

Several existing sampling methods were considered for the design of EMN's protocols to help facilitate this comparison of data. However, most of the current sampling designs focus on monitoring specific vegetation types such as only forests or prairies. While the base framework that was developed for the National Park Service Great Lakes Inventory and Monitoring Network (NPS GLKN) also focuses solely on forested sites, we have adopted many of its core methods as the final EMN sampling design, with some modifications. In this way, direct comparisons can be made to areas such as Voyageurs National Park and St. Croix National Scenic Riverway, where the NPS has been collecting data since 2007.

We will use this same design for all plant communities being monitored in Minnesota, as it is sufficiently flexible to modify to other habitats such as prairies, as it is similar to other well-known, existing grassland designs, such as the Konza Prairie long-term ecological monitoring protocols. Other designs or existing project have also been considered and in some cases incorporated to a lesser degree into our core methods. These include: U.S. Forest Service Forest Inventory and Assessment (FIA) program (USDA 2018); Don Waller and the Plant Ecology Laboratory at the University of Wisconsin who are measuring the nature and extent of long-term ecological change in Wisconsin by resurveying J.T. Curtis' plots from the 1950s (Curtis 1959); North Carolina Vegetation Survey's nested, multiscale plot module design (Peet et al. 1998), the modified Whitaker plot (Stohlgren et al. 1995), Illinois' Critical Trends Assessment Program (CTAP; Molano-Flores 2002), MN Pollution Control (MN PCA) Wetland Status and Trends (Bourdagh 2015), EPA's National Wetland Condition Assessment (U.S. Environmental Protection Agency 2011), and several other regional National Park Service Inventory and Monitoring protocols, most notably: Northern Great Plains (Gitzen et al. 2010; Symstad et al. 2012), Heartland Network (James et al. 2009); Northeast Temperate Network (Tierney et al. 2009), and the Eastern Rivers and Mountains (Perles et al. 2014) Network. All of these existing protocols have complementary objectives to our own, have had several years of extensive field testing and have conducted preliminary analyses to determine their designs have sufficient power to detect change.

Site selection and sampling frame

The sampling frame for this project is the state of Minnesota, the boundaries of which demarcate our sample set of potential plot locations using a generalized random-tessellation stratified

(GRTS) design (Stevens and Olsen 2004). By using the GRTS design the resulting sample points are spatially balanced, where there is generally an even dispersion of sampling sites throughout the area of interest (the state of Minnesota). This eliminates potential autocorrelation problems that can arise when two or more sampling points are in close proximity (Stevens and Olsen 2004). It also ensures that all areas within the sampling frame are represented. In addition, the GRTS design allows for sites to be added to or excluded from the original sampling plan, while still maintaining the spatial balance of the overall design. This is important because it is difficult to gauge exactly how many plots can be sampled within a given time period or how many plots the project will ultimately require to detect trends statewide. Therefore this will allow us to continually add new plots in the future while maintaining spatial balance. The second asset of the GRTS method is that it is a probabilistic sampling design, whereby sampling points are randomly chosen from among those in a systematic grid, eliminating site selection bias (Stevens and Olsen 2004). Unfortunately, one drawback with any random design is that it does not guarantee that plots will be located in areas of key management significance or rare native plant communities.

Using the state of Minnesota, a large draw of 20,000 GRTS points was necessary to ensure that adequate numbers of prairie, a native plant community that is increasingly rare in Minnesota; there is currently less than 2% of this community remaining in the state. The Cropland Data Layer (USDA), a 30m pixel GIS raster layer, was then used to filter out the high numbers of points that invariably intersect with cultivated, impervious surface, or mining operations detected in this remotely sensed data layer.

Sample sites selected using the GRTS method described above uses spatial stratification to ensure that sample sites are equally distributed within the sampling frame as opposed to stratifying on any predefined landscape characteristic or qualifiable metric, such as native plant communities. The successional nature of vegetation, coupled with the fact that many areas in the state are recovering from some kind of disturbance such as logging activity, or some other type of historical disturbance preclude the use of a stratified-random sampling design. Stratifying on a dynamic variable, such as vegetation, for long-term monitoring goals will ultimately result in misclassification of sites and consequent analytical error. Further, a stratified sampling design will prevent inferences about native plant communities not sampled. For these reasons, a stratified-random approach will not be used.

The target population within our sample frame is any native vegetation that can be defined as a native plant community or dominated by native vegetation, which has not been severely altered from this state in recent years. These areas must also then meet the criteria outlined below for selecting sample sites (see *General Criteria for establishing sampling sites in the field*). Areas that meet the criteria occur across all land ownerships –public and private– within the state. Private lands were included in order to truly infer status and trends of plant communities and native vegetation statewide, regardless of ownership. Monitoring will not be conducted at a site without the landowner's permission.

Sampling Frequency and Replication

A simple panel design is currently in development. The plot resample schedule will ultimately be determined by how many total plots are established and how many we can consistently resample in one field season. It is suspected, however, that plots will be visited on a 7-8 year rotation based on the fact that we have estimated a minimum of 600 plots statewide will be necessary to detect status and trends across several community types. This sample size is based largely on budgetary and logistical constraints, but also estimated according to other programs or state's experiences doing similar monitoring. Additionally, we feel that a 7-8 year rotation is a good balance between sampling too frequently, where trampling of the site can adversely impact the plant community, and sampling too intermittently, which reduces the ability to detect change over a given time period. This sampling interval will allow time for some change to occur, yet provide relatively frequent feedback about long-term directional change.

Detectable Levels of change

The primary driver of sample size should be the power to detect change over time in the key parameters that provide information towards a program's objective and we estimate we will need at least 600 plots statewide. However, other important factors affecting sample size are budgetary and logistical constraints such as length of growing season and availability of qualified crew members. While we hope that this monitoring program will ideally be able to detect a 20 percent change in key parameters over ten plus years (i.e., two or three plot revisits), with a power of 0.80 and an alpha of 0.1, realistic and appropriate values for alpha and beta will be determined as more data is collected. A power analysis can be used to determine the sample size needed to detect a set level of change in a parameter at a particular power and alpha level. However, the vegetation monitoring program collects numerous measurements. The sampling design may provide an adequate sample size for some measurements, but may not be adequate for others. Additionally, as the monitoring is expected to continue indefinitely, more data will be added and the power to detect change will increase.

Field Methods

Sampling Design

Initial sampling will need to be robust to varying levels of spatial autocorrelation as expressed by varying degrees of patchiness in underlying species distributions due to the fact that not all communities are spatially structured in similar ways (Goslee 2006). Therefore, we have adopted a multi-scale, nested design approach to capture plant composition, density, and diversity using subplots of different sizes. This is necessary because different communities have different spatial patterns and species frequency. Using a single plot size, while an arbitrary sample of species diversity, does not provide adequate information on species that are found to be extremely abundant or communities that have multiple strata. Sampling at two or more scales provides information about the structure of a plant community and distribution of individual species,

allowing for better comparison among communities and an estimate of how many additional species might occur beyond our largest plot size (i.e., were “missed”; Stohlgren et al. 1995). The basic concept of nested plots are the same in terms of sampling efficiency despite different sizes, but smaller areas are devoted to plants with smaller stature or high frequency and larger units for species such as canopy trees.

As mentioned previously, we have adopted a response design similar to that of NPS GLKN (Sanders et al. 2014). Their design combines features from two established plot types: the FIA methodology (for details on the metrics collected see USDA, Forest Service 2018), currently used throughout the country by the U.S. Forest Service, and the methods used extensively throughout the Midwest by the Plant Ecology Lab (PEL) at the University of Wisconsin to resample John Curtis’ 1950s plots (Bushman, 2006; Rogers 2006). Consequently, the Great Lakes Network’s design has been called the “Hybrid plot” (Johnson et al. 2006; Sanders et al. 2014), which consists of three 50 m parallel transects, spaced 50 meters apart. However, for this project, transects will be spaced 20m apart in forests and 10m apart in open wetland and prairie systems in order to better accommodate a variety of landscapes and communities statewide (Figure 1). The Great Lakes Network is primarily focused on larger blocks of contiguous, forested plant communities, whereas EMN has the added challenge of fitting plots within small prairie remnants or small fragmented forests in the southern part of the state. Beginning in 2018, we have also shortened the transects to 45 meters. During our first field season in 2017, a significant amount of time was spent collecting ground layer data from 30 quadrats. After examining species area curves and other information, it was decided that 24 would be sufficient to capture a similar amount of information while spending less time at the plot.

Within each plot, basic information describing the site (e.g., slope, aspect, and terrain position) is collected to allow proper interpretation of other data collected. Photographs are taken of the plot and understory to document change in appearance over time. The bulk of the data will then be recorded on the ground layer vegetation, where a series of nested quadrats (0.1m^2 within a 1m^2 quadrat) spaced every 5 meters along each of the three transects for each plot will be assessed (Figure 1). We will record all species present in each quadrat provided its cover can be assessed below 2 m. These data will be examined for correlation between the frequency of specific indicator species and key stressors such as deer browsing. In addition to simple measures of frequency through presence/absence, the abundance of vegetation within 1m^2 quadrats will be recorded by means of its respective amount of cover to yield information describing species composition and important non-native invasive species changes. Cover will only be assessed within the 1m^2 plot.

Despite the drawbacks of assessing cover (e.g., it can be highly subjective and yield a great deal of observer bias, it can vary significantly throughout the growing season due to seasonality and/or other environmental variables such as insect damage), it is the most common measure of plant abundance. If trained surveyors are well calibrated, it can be measured relatively quickly, particularly if using cover classes. It is best practice to continue to calibrate throughout the field season among team members and ideally once arriving at the plot to ensure everyone is considering that day’s vegetation similarly. Team members should come up with their estimates privately, so their measurements are independent. If the separate estimates are close, you can feel

confident that a consensus value will be close to the true cover. If the estimates are far apart, the team needs to reexamine the plot to see where the problem arose. While working individually can be faster, working as a team of two on each transect will likely yield higher quality data.

If trees and shrubs are present, all woody species ≥ 2.5 cm diameter-at-breast-height (DBH) will be measured for status (live/dead), size (DBH) and condition within a belt transect that centers around each transect. These data will yield information on tree growth, mortality, and stand structure and composition. Tree seedlings will be tallied by species within quadrats in order to assess advance regeneration and the effects of deer browsing.

Coarse woody materials will be assessed along each of these three transects, if present, whereby data are collected on all downed wood which intersects the transect plane with a diameter ≥ 7.5 cm (3 in) at the point of intersection.

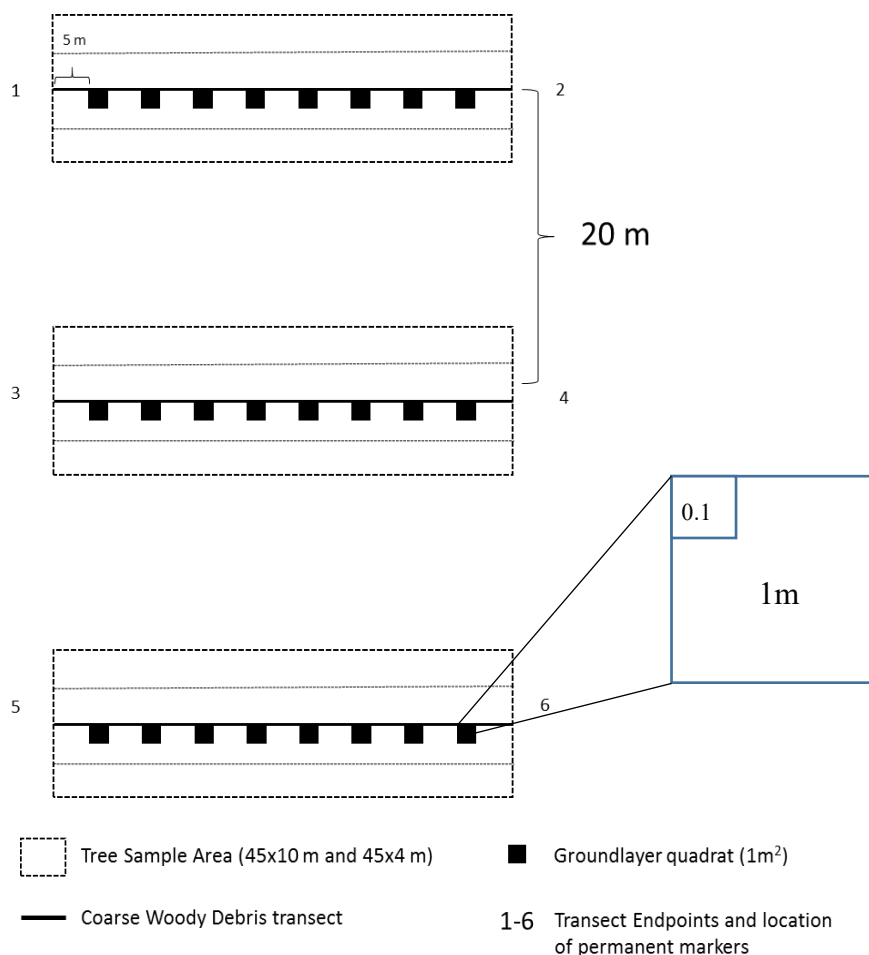


Figure 1. Modified Great Lakes Network (Sanders et al. 2104) plot configuration with the addition of the EMN nested quadrat and nested tree belt transect.

General Criteria for establishing sampling sites in the field

The following *general* guidelines describe criteria regarding whether sites shall be included within the larger network of sites to be monitored. More specific criteria related to either forests, grasslands or wetlands are outlined in their respective sections.

1. Areas with little or no potential for terrestrial vegetation (e.g., large areas of bare rock) are excluded. Within each plot, the ground must be at least 70% vegetated or potentially vegetated. For example, in many northeast areas of the state, there are large expanses of exposed bedrock. If any single transect is covered by >30% bedrock, the site must either be moved (see below) or abandoned, as this cover type will never be vegetated. In contrast, areas that have recently been burned, harvested (but not disked, trenched and converted to plantation), or experienced a blowdown will become vegetated over time. These areas will be included in monitoring provided they have not been recently harvested in the last 5-10 years. At time zero (i.e., the establishment of the plot), baseline data should reflect the community prior to any disturbance from harvest.
2. The plot must not have an obstacle (e.g., stream, trail) that runs the length of a transect. However, a transect is allowed to cross one of these obstacles (see below for more details).
3. The plot needs to be placed ≥ 100 m from edge of disturbance (not native vegetation such as a major road, cultivated areas, homestead, or mowed area).
4. Plot should avoid areas on $>30^\circ$ slopes, or use best judgement about whether the slope is safe for sampling while at the same time not creating a potential for erosion as a result of sampling.
5. All transects should be established within fairly homogenous vegetation or native plant community type. Transects should avoid crossing from wetland to upland or any other significant changes in community. Document any subtle changes in native plant community (see NPC classification guide) if there are differences between each transect that are unavoidable or if there are small inclusions of another community type that are typical of the larger community (e.g., small wetland swales or low pockets).
6. There must not be any obstacles that present a safety hazard to the crew. This includes, but is not limited to, steep cliffs near the transects or hornet/wasp nests directly where plot marking will be placed.
7. Small, isolated habitat (≤ 15 acres) that is surrounded by agriculture or other anthropogenic disturbance on all sides.
8. Extreme anthropogenic degradation should be avoided, where significant alteration of the community has resulted in $<30\%$ native flora. Examples of areas to avoid: large openings with food plots for hunting purposes have been created within a forest; junk (e.g., old cars or machinery) or garbage piles are present within the plot; frequent mowing that is maintaining non-native grass cover; substantial areas of plantings such as a pine plantation or non-native plantings in the understory/groundlayer such as daylilies or hostas; several hiking or skiing trails throughout where their impact is unavoidable, etc.

Moving plots in the field

If the field crew cannot establish the plot because there are unavoidable obstacles or safety hazards that were not detected on aerial photography prior to arrival, or any of the situations listed above are present, the plot may be moved if it appears there is enough suitable habitat nearby. Movement of a plot must only be to the closest location meeting the criteria outlined above (while maintaining 20 m distance between transects). In rare circumstances, transects can be modified to fit a narrow stretch of habitat, such that there would only be two transects that are 65m in length and have 12 quadrats each.

Additional examples which may necessitate moving a plot include: 1) areas where multiple native plant communities are present; for example, distinctly different conditions or inclusions are present such as large open pools or ephemeral ponds with standing water within a hardwood forest; 2) significant topography is present and the plot needs to rotate to fit on one aspect so that transects are parallel with existing contours; 3) significant non-native vegetation dominates such that native flora is less than approximately 30%; 4) excavations, disked soil, or recently harvested (within the last 5 years), etc. Treefall gaps do not constitute uncharacteristic habitat or vegetation and should be included in the monitored transects if present. If the transect crosses an interruption in vegetation, such as a stream or path etc., where more than one quadrat falls within the interruption, then the transect is terminated on the closest edge of the interruption and resumed, at the same point along the transect, on the distal side of the path and it is noted as “not sampled” on the data sheet.

An effort should be made to not move the plot more than approximately 200 meters from the original location of the GRTS point. However, exceptions to this will invariably arise and the field crew will need to use their best judgment in deciding where to move the plot while using as little human bias as possible. Therefore, if there is suitable habitat within the same community type nearby, but only beyond these distance parameters (i.e., 200 m), then perhaps it's best to move the plot regardless of the distance before abandoning the GRTS point altogether. For the sake of efficiency, it is sometimes best to allow for some leniency of plot placement rules, as long as it's within a reasonable distance. One needs to consider the time it took to access the site, how long it will take to access the next nearest site, etc., before deciding to abandon the plot.

If there is suitable habitat in more than one direction from the original predetermined monitoring location, the plot location is moved into the closest suitable habitat. If suitable habitat occurs the same distance away from the location, in more than one direction, then the location is moved to the suitable habitat with the lowest compass bearing (e.g., if there is suitable habitat to the east [90°] and south [180°], the center point is moved to the east).

Additionally, while setting up the plot, if an obstacle, such as a steep cliff, a pond with water more than waist-deep, or a safety hazard such as a wasp nest is encountered, a transect can be less than 45 meters long. A short transect is acceptable only if it affects a small portion of the plot and it appears that in future years the hazard is only temporary. An alternative to plot establishment might be if the crew has transects 1 and 2 set up, and they encounter an obstacle or safety hazard while trying to establish transect 3, the most time efficient manner of completing

plot set-up is to return to point endpoint 1, and establish the 3rd transect 20 meters to the north of transect 1. This new point is designated as endpoint point 1, and a new point 2 can be established 45 meters east (or whatever bearing it happens to be) of it. What were previously points 1 and 2 will become points 3 and 4, and what were previously points 3 and 4 will become points 5 and 6.

Initial Plot Establishment

The coordinates of the randomly selected GRTS point typically represent the northwest corner of the plot (i.e., endpoint 1 of transect 1). Plots will normally be established along an east-west direction to remove bias. However, allowances will be made to modify or move the randomly selected point so that the plot can be fit within an irregularly shaped area or to accommodate a steep slope, such as in southeast Minnesota where slope and aspect are unavoidable. In the latter example, the plot should only be established such that it aligns with the prevailing aspect (parallel with topographic contours) if it is clear that the plant community changes on the adjacent aspects, as well as the upper and lower slopes. In situations where there is rolling terrain where there isn't one prevailing slope or aspect, keeping the plot within one plant community with similar soils and environmental conditions with relatively homogenous vegetation should be the primary goal. If any atypical conditions apply and the plot is moved significantly from the random point location, it should be detailed on the main data sheet and noted how the plot was moved and why, along with a detailed diagram of the plot layout.

If the plot is rotated or shifted from the normal east-west direction, endpoint 1 should always remain in the upper-left position regardless of the rotation of the transects and irrespective of true north. For example, a plot rotated 90° from normal, with transects oriented in a north-south direction, will have endpoint 1 at the northeast corner.

Once it is decided where the plot will be established, begin by laying out all transects before sampling begins. It is most efficient to start by having a pair of crew members lay out the perpendicular side of the plot with a 50 m tape, beginning at endpoint 1 and ending at endpoint 5 using the details described in the next paragraph (Figure 1). Transect 1 is then initiated by another pair of crew members using a 50 m tape, once it is clear that endpoint 1 will not be changed. Crew members who established the first perpendicular side are then responsible for continuing with laying out Transect 3 (between endpoint 5 and 6). Meanwhile, staff laying out Transect 1 will establish the second perpendicular line between endpoint 2 and 6. Transect 2 will be completed by whomever is available to finish this last transect, as it will be much easier now that a box has been delineated by meter tapes and there is another perpendicular side to aim for.

Transects will be established using a sighting compass, which increases accuracy across all three transects and for future resampling efforts. The mirror enables the user to simultaneously sight the bearing while checking that the compass needle is aligned with the north arrow in the compass housing. When using a sighting compass with a mirror, hold the compass at eye level with the mirror tilted to a 45° angle (the horizontal part of the sighting cross shall align with the center of the compass housing). The direction can now be verified with the compass bearing by aligning the notch at the top of the mirror, the sighting cross, and the opening in the mirror with

the transect tape visible on the ground. This will no doubt take some practice in the field. No declinations will be set on any compass used for the project, due to the fact we are working statewide and declinations vary around the state. Frequent calibrations should be carried out amongst crew members to ensure that everyone's compass is within 1-2 degrees of one another. We will use true north as the reference from which all bearings are taken, with compass declination set to zero. Given that monitoring plots are being established statewide, it is not practical to change declination frequently throughout the summer depending on the work location.

Specific instructions for laying out a transect are as follows: the compass sighter locks in the specific azimuth for the transect being established and directs the runner to walk in the direction of the desired azimuth, with or without tape in hand. If meter tape is in hand, it needs to remain in the runner's right hand so as to not trample vegetation where the quadrats will eventually be placed. The runner will repeatedly stop when the sighter cannot easily see the runner. When this happens, the runner turns and faces the sighter, holding a pink flag vertically in front of them so the sighter can easily see the flagging and verify that the runner is still on the correct path. The sighter will direct the runner to move the pink flag in the appropriate direction to line up with the desired azimuth and the runner will adjust their position accordingly. This flag will then be hung on the nearest piece of stable vegetation (if present) at eye level or higher so that adjustments are easily corrected and a straight path is eventually established. Using pink flagging is helpful especially in forested or shrubby conditions. Use of this method is typically not needed in open conditions such as prairies or open wetlands. Continue until the entire length of the transect is complete. Field conditions may require adaptations to these instructions and should be considered general guidelines.

Meter tapes that demarcate transects should follow the contour of the ground as much as possible, anchored at either end with chaining pins. This may require threading the tape under logs and other downed debris and through the middle of shrubs so that there is minimal slack or curvature in the line. Bright flagging tape should be hung in a visible location to mark each endpoint (from trees and shrubs, when present), as well as at frequent spots along each transect (particularly in forests) to facilitate sighting back along the compass bearing to verify accuracy. This is helpful when visibility is low, due to dense shrubs or other vegetation, and the opposing endpoints are no longer visible.

While laying out transect lines, it is important that the tape be kept in the right hand at all times, as the quadrats will be placed on the right side of the meter tape, and this will minimize trampling. To avoid trampling the vegetation in the quadrats, staff must be aware of quadrat locations and always walk on the LEFT side of the tape when heading away from the transect start point, and conversely walk on the right side when heading away from the endpoint of the transect.

All transects should be parallel to one another and meet the perpendicular sides at the appropriate locations (i.e., 0, 20, and 40 meters). It is important to note that all transects are based on horizontal distances so if there are significant contours throughout the plot, all three transects may not end at the perpendicular meter tape equally.

It is also important to be cognizant of the amount of traffic in order to minimize trampling throughout the interior of the plot, particularly on steep slopes, fragile organic soils, or where thick herbaceous vegetation or moss cover is present and easily compacted. Always place and unload packs outside the plot boundary, not within. Crew members should plan ahead and retrieve all gear for a particular set of measurements at one time, rather than taking extra trips across the plot. Crew members should minimize steps on the transects and extra-care should be taken to avoid trampling the quadrats and any soft, coarse woody debris on or near a transect.

At the completion of sampling, all chaining pins, meter tapes, flagging tape, and other sampling gear are pulled up.

Limiting transport of non-native species or other material

Crew members should be responsible for taking reasonable actions to limit the spread of nonnative invasive species between plots. Before leaving a site, or at the end of the day, and especially before going to the next plot, crews should visually inspect gear, clothing and boot treads, removing any obvious attached seeds, plant fragments, or excess soil.

When the crew returns to the vehicle, a more thorough investigation of clothing, backpacks, and footwear should be done. Use the coarse fibered brush to remove any material that is stuck in treads of boots. It may be necessary to unlace and clean out seeds that are trapped under boot laces. If necessary, use water to clean off mud that may contain seeds or earthworm castings once you have returned at the end of the day.

Permanently marking plots

Each of the six transect endpoints are permanently marked. The degree of permanent marking varies by habitat and ownership. For example, a private landowner, designated wilderness areas (e.g., BWCAW), or a State Park may request that permanent marking be done at a minimum. No plots are marked in such a manner as to be evident from roads, trails, or other heavily used public use areas.

If no plot marking modifications are requested by the landowner, then all transect endpoints are marked with a 1 ft piece of rebar (3/8 inch diameter) capped with a plastic cap stamped with "DNR STUDY." This is sunk flush with the ground. Where there is bedrock or some other obstruction preventing the rebar from being placed adequately into the ground, first attempt to hammer the rebar in at an angle so that the top of the piece is in the correct place representing that transect endpoint. If that is not possible, the rebar is placed a short distance away from the actual transect endpoint, and the distance and bearing from the rebar to the transect endpoint are recorded on the datasheet.

If the plot is not suitable for rebar placement or the land owner has requested that no rebar be used, then the first choice shall be to use an Underground Magnetic Utility Marker (DEEP1) in place of rebar. Optional alternatives to rebar include: a) Burying a DEEP1 utility magnet by

digging a shallow hole approximately 4 inches below the soil surface, or deep enough so that it will not easily be dug up or washed away but still detected by a metal detector in the future. b) Create a rock pile over a DEEP1 magnet in such a way that the magnet will not easily be uncovered. This would be necessary for places where a hole cannot be dug such as on bedrock. c) Use a large magnetized “magnail” with flagging tied around it such that the flagging sticks out above the soil, or with a whisker marker attached at the end. Magnails are sometimes easier to insert into rocky soils.

The GPS locations of all transect endpoints, as well as any offset rebar, are recorded with the Trimble R2 GPS Receiver paired to work with ArcCollector on an iPad. In the case where rebar is offset, two waypoints are recorded for a single endpoint (the endpoint and the offset locations). For each point, attributes that are recorded in the iPad for each endpoint are SiteID (the GRTS site number, e.g., 00504), Endpoint ID (1-6), Date of sampling, Person Recording (initials of crew member), and a check box for whether an endpoint is offset. For endpoints where there is an offset point, both points are given the same Site ID and Endpoint ID attributes, but changing the Offset field to ‘Yes’ for the rebar, and leaving it as ‘No’ for the waypoint of the actual endpoint.

Three reference trees (where applicable) will also be tagged with a numbered aluminum tree tag affixed to the tree with a 2 inch aluminum nail (aluminum nails are not as damaging to milling equipment in the event the trees are cut down). The distances and azimuths from the rebar endpoints to the trees are then recorded. In the event of an offset rebar, distances and azimuths are taken from the rebar and not the actual transect endpoint (make note of this in the Witness Tree form). Additionally, at each 10m mark (10, 20, 30, 40m) along each transect, a magnetized 6 inch stake nail (“magnail”) paired with a whisker flag will be placed in the ground to aid in future quadrat re-establishment and transect realignment. However, no whisker flags shall be used with nails where grazing occurs. Whiskers can cause a choking hazard for cows as they like to pull out the whiskers while grazing.

In wetlands, magnetized plastic EcoStakes will be substituted for rebar. The EcoStake is pushed into the peat while allowing the brightly-colored magnetized head to remain above the peat surface. Additionally, magnails will not be used in wetlands, given that they will rust, sink into the water, or will quickly be overgrown by fast-growing peat. Instead, a plastic pink survey stake (1 foot in length) that has colored flagging tied to the top will be used to mark every 10 meters. If any trees are present in the wetland near endpoints that can be used as witness trees, place a tree tag similar to forested methods and describe the azimuth(s) and distance from the plot endpoints.

Document any and all equipment used for any permanent marking on the cover sheet so that in future years, crews will know what to look for. For example, noting that either rebar, magnails, or magnets marked the endpoints and that magnails or other equipment marked the 10 meter transect locations.

Forest Sampling Criteria, Plot Establishment and Response Design

Forest sampling criteria includes:

- Ideally, plots should be established within an area measuring approximately 150 meters in diameter of suitable homogenous forest habitat. This area includes space to include a plot with adequate buffers on all sides of the plots; the minimum area for establishing plot is 50 m x 50 m.
- Forested communities ranging from dry upland forests, woodlands or savannahs to wet forested lowlands such as black spruce swamps and bogs or riparian forests. A forested plots is one where canopy cover is >10% cover or there is a *potential* for canopy cover. Potential canopy is defined as areas with recent blow down or other disturbance where there is limited canopy cover, but has the potential to recover to >10% cover. Transects in forested sites are established at 20m apart (compared to open sites such as prairies or sedge meadows where transects are 10m apart).
- Lightly grazed areas are acceptable.
- Sites slated for harvested, as long plot establishment (i.e., initial data collection or at time zero) can be completed before harvesting occurs. Additionally, initial sampling of a site should capture data that represents a forest that has not been harvested in the recent past (i.e., not within 20 years).

Sites shall not include:

- Areas where ground cover is replaced by plantings of pasture grass, cultivars, or manicured lawn (e.g. city parks with managed plantings, golf courses, etc.).
- Plantations where the native plant community has been converted to what is essentially a monoculture and is no longer a recognizable native plant community. For example red pine plantations where minimal ground layer vegetation exists.
- Significantly altered (disked, trenched, planted) or heavily managed areas where post-harvest treatments included prescribed plantings, herbicide or seeding, for example.

Forest Response Design

Within each plot, basic information describing the site (e.g., slope, aspect, native plant community classification, and terrain position) will be collected to allow proper interpretation of other data collected. Photographs will be taken of the plot and understory to document change in appearance over time. Stand structure and disturbance will be qualitatively assessed from visual inspection. Each tree ≥ 2.5 cm diameter-at-breast-height (DBH) will be measured for status (live/dead), size (DBH) and condition. These data will yield information on tree growth, mortality and condition, and stand structure and composition. Tree seedlings and saplings <2.5 cm will be quantified by species within quadrats in order to assess advance regeneration and the effects of deer browsing. Understory woody and herbaceous species within 1m² quadrats will be recorded to capture information on composition (including presence of non-native species), abundance, diversity and richness. These data will also be examined for correlation between the

frequency of specific indicator species and key stressors such as deer browsing. Coarse woody debris will be quantified along transect lines.

Recording General Plot Characteristics (area delineated by the transects 40x45 m)

- **Plot identification:** Record the plot identifier– this is the GRTS SiteID number, along with the date. This is also recorded on each datasheet thereafter.
- **Access and Directions:** Describe directions for walking to the plot, including trails, landmarks, distances, and bearings from identifiable landmarks or reference points. Include parking recommendations where applicable. Be very specific, so that future crews can successfully follow your directions.
- **Site Ecological Description:** Record description of plant community, ecological observations, or any unusual plot features or problems encountered during plot setup, including reasons for discarding any pre-selected plot locations. Note any problems or irregularities, and make note of what types of plot markers are used and whether there were any issues, such as bedrock. Note any features which indicate plot history, including evidence of past agricultural, silvicultural (e.g., cut stumps observed), or recreational use regardless of how long ago it may have been. If transects are notably different, document this. Also describe how the plot was permanently marked and where, for example, that rebar or magnets were used to mark endpoints and that magnails were placed at 10, 20, 30, 40 meters on all transects. Indicate if any endpoint rebar was offset or any other deviation from the standard methods were used.
- **Photopoints:** A photo is taken at each of the six transect endpoints, facing directly into the plot. Beginning in 2022, photos will be taken with the iPad and associated with ArcCollector and geotagged when recording Trimble GPS endpoints. Therefore, at endpoints 1, 3, and 5, photos are taken facing the opposing endpoints 2, 4, and 6. Conversely, for endpoints 2, 4, and 6 photos will be taken facing 1, 3, and 5 endpoints. All photos are taken at a med-high resolution. Do not zoom-in on the scene, stoop down or adjust your height. Take the photo at normal height of viewer allowing for the most vegetation to be captured from the ground layer to the shrub layer and canopy. Allow the camera to automatically select the appropriate aperture for the given light conditions. Check photo quality on the screen. Take additional photographs if the quality is questionable. If lighting is questionable, take one photograph with flash and one photograph without flash. Naming convention for photos, once back at the office, will be as follows: PLOT ID#_endpoint#_camera photo#, such as, **00038_1_263.jpg**.

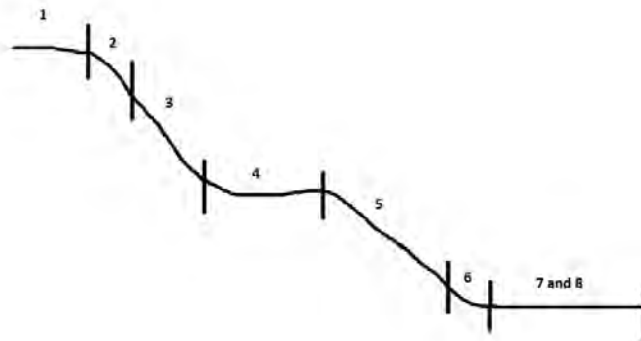
These are best recorded after all the quadrat data are collected and the additional species walkthrough is complete.

- **Stand structure:** For forested plots, record the basic stand structure in the plot using the following codes:
 1. **Even aged:** A succeeding stand dominated by a single cohort of closely competing trees of relatively uniform size and height with a closed tree canopy ($\geq 60\%$ tree canopy cover).

2. **Multi-aged:** later-successional or mature stand characterized by a distinct canopy with typical regeneration below including trees of many sizes and heights. Typically has a closed tree canopy ($\geq 60\%$ tree canopy) but gap dynamics may be evident.
 3. **Mosaic:** Plot contains at least two distinct structural classes or size classes of trees, each covering at least 25% of the stand.
 4. **Early successional:** A succeeding stand without a closed tree canopy ($<60\%$ canopy cover).
 5. **Woodland:** A stand with at least 25% but less than 60% canopy tree cover, giving the area an open appearance. Trees are open-grown, or growing in small groups interspersed with shrub or herbaceous cover or bare rock. Do not use this code for early-successional plots apparently succeeding to forest, or a forested plot that currently has $< 60\%$ canopy cover due to gap dynamics.
 6. **Savannah:** Trees are scattered or in scattered clumps, with total cover 10-70% and typically 25-50%. Bur oak is the most common species and occasionally aspen. This differs from woodlands by having significant presence of prairie species in the understory.
 7. **Stunted peatland:** Canopy is patchy to interrupted (25-75% cover) and dominated by stunted ($<10\text{m}$ tall) black spruce or tamarack.
- **NPC class or type code:** Record the community code or name using the appropriate NPC Classification from NPC guides. This is typically done after all ground layer data are collected for the day. This will be used in post-stratification analyses.
 - **% Cover by Strata for whole plot:** Estimate the total cover of plant foliage for each of the strata listed below within the plot. A rapid cover estimate is made, ignoring overlap among species. It may help to visualize cover by collapsing each layer into a 2-dimensional space, ignoring normal spaces occurring between leaves. For the canopy, estimate the percentage of plot area covered by live tree crowns directly overhead and record appropriate code. If canopy foliage is not present due to seasonal variation or temporary defoliation, visualize the amount of live crown normally present. Do not visualize foliage that formerly existed on dead branches. Use the following cover classes: $<1\%$, 1-5%, 5-25%, 25-50%, 50-75%, 75-100%
 1. Groundlayer and low shrub layer: $<2\text{ m}$ above ground
 2. High-understory: 2 to $\sim 5\text{ m}$ above ground.
 3. Subcanopy: Height defined for each plot. Must be $>5\text{ m}$.
 4. Canopy: Height defined for each plot
 5. Super Canopy: Tall overstory that is not a dominant cover (typically conifers)
 - **Plot slope and aspect:** The general slope (i.e., slope recorded in degrees and measured using compass) and aspect (e.g., NW) of each plot is recorded. This is in reference to the overall general area that contains the transects and quadrats, not the slope or aspect of each transect separately. In transects with considerable micro-topography throughout

their length, an estimate or average of the overall or dominating aspect and slope conditions should be recorded. Aspect is recorded as the direction that a slope faces – the slope that the plot occurs on. It can be thought of as the compass direction a hill faces (e.g., north-facing). Record the angle of slope for the whole plot to the nearest 1 degree. Use your sighting compass for this measurement by rotating the graduation ring until “W” (270°) is at the index line. Open cover completely and hold compass at eye level, on its side. The clinometer needle should move freely. Tilt the compass upward, and align the edge of the compass with the slope of terrain. Read inclination from where the inclination needle meets the declination scale.

- **Terrain Position:** circle the number that best describes the position of the plot. Refer to the topographic illustration below to determine the plot’s position on the landscape, if on a slope. Use following codes:
 1. Top of slope - convex region, or flat ground on top of a plateau
 2. Upper slope - convex region near top of slope
 3. Mid-slope - uniform, fairly straight sloping region
 4. Bench - level land with slopes above and below
 5. Lower slope - concave region near bottom of slope
 6. Toe slope - the gently inclined surface at the base of a slope where it intersects with natural ground line.
 7. Bottomland - flat and low-lying; associated with drainage and flooding
 8. Flat - low elevation, but unrelated to drainage and flooding; may have minimal elevation change
 9. Various aspects (rolling)
 10. Other (describe)



Canopy Tree Measurements

Woody species in the tree canopy and subcanopy layer are sampled within two nested belt transects, centered along each transect. This is done after the quadrat sampling is completed so as to not trample the ground vegetation. A stem is counted along the edge of the plot if at least half the diameter of the stem at diameter at root collar (DRC) is within the plot. If the tree has multiple stems or there are several independent trees that have grown together, but have a

common base along the edge of the belt transect, treat them as separate trees. To determine which ones get measured, follow the center of each bole to the root collar. Using the criteria above, each separate bole that falls outside the belt transect is excluded.

Any transect that has no trees in the belt transect should be clearly marked as such on the datasheet, using the phrasing **sampled, no data**. If a transect is not sampled due to time constraints or safety, this is clearly marked on the datasheet using the phrasing **not sampled**. This pertains only to documentation on paper datasheets. If no trees were sampled in a transect, there is the option to note that in the electronic application.

Woody vegetation ≥ 2.5 cm and < 10 cm DBH: The species and diameter at breast height (DBH) of all woody plants and vines that fall within this diameter range are sampled in a 45 x 4m belt transect centered along each transect (2 m on either side; Figure 1).

Woody vegetation ≥ 10 cm DBH: The species and DBH of all trees ≥ 10 cm are recorded in a 45x10m wide belt transect centered around each transect (5 m on either side). Any evident damage from pests and pathogens or abiotic factors is noted for each tree measured (Table 1). Trees are defined as all live or standing dead trees in the transects the first time a plot is established, and all trees that grow into the transects thereafter. Details of measuring standing dead trees are presented below. Trees are considered ‘live’ if they have any living parts (leaves, buds, cambium) at or above the point of diameter measurement. Trees that have been temporarily defoliated are still live.

Dead standing trees lack any living parts (i.e., leaves, buds, cambium) at or above DBH, and lean <45 degrees from vertical, as measured along the bole. They must also meet the same DBH size requirements noted above for each belt transect, have a bole with an unbroken height of at least 1.37 m, and do not need to be self-supported. Dead trees leaning >45 degrees from vertical are considered coarse woody debris, provided they cross the transect intercept plane. (See Figures 2-3).

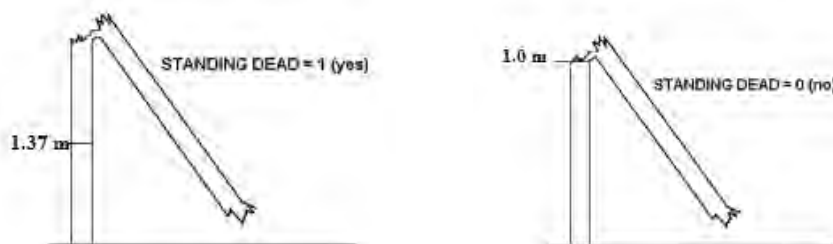


Figure 2: The tree on the left would be tallied because it is at least 1.37 m (4.5 ft) and ≥ 2.5 cm in diameter at the 1.37 m height. The tree would not be tallied because it does not have an unbroken height at 1.37 m. (adopted from USDA 2018 and Sanders et al. 2014)

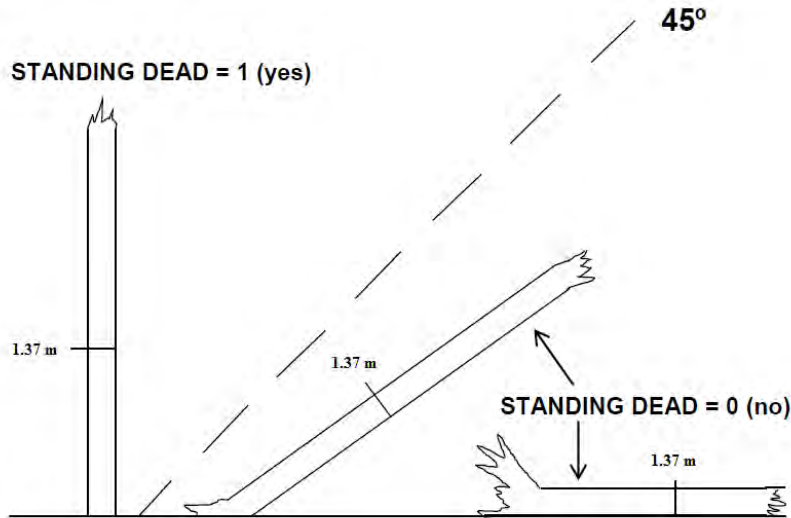


Figure 3. Other examples of dead trees. The tree on the left would be tallied since it is at least 2.5 cm in diameter at the 1.37 m height, and it has at least 1.37 m in unbroken actual height. The two trees on the right would not be tallied as standing dead trees since they are leaning at an angle $\geq 45^\circ$ from vertical, although they would be counted in the CWD tally, provided they cross the transect and meet all of the other qualifications. (adopted from USDA 2018 and Sanders et al. 2014)

It is most efficient to measure species in both belt transects simultaneously using a team of three crew members, where two people are identifying species and taking DBH measurements (one on either side of the transect) and the third crew member is recording the data. Crew members measuring DBH will need to be mindful of only measuring species ≥ 2.5 cm and < 10 cm within the 4 m nested belt transect. However, species ≥ 10 cm are recorded throughout the entire 10 m belt transect. In order to determine whether the crew member is beyond 2 m or 5 m of the transect line, a Hagl f DME Ultrasonic Cruiser is used with a transponder, where the data recorder holds the receiver and the measurer holds the transponder. In this way, crew members can easily keep track of their distance without the use of a meter tape.

Do not use calipers to measure tree DBH unless it is physically impossible to use a DBH tape. If calipers are used due to some irregularity, take two measurements and average them together and note this on the datasheet. The following fields are recorded:

- **Species:** Record species of woody tree or shrub. If tree is dead and species cannot be determined, indicate whether it is a conifer or hardwood, or unknown.
- **Live/Dead:** L–Live tree; D–Standing dead tree;
- **Fragmentation class:** If standing dead tree, record fragmentation class (Figure 4):
 - 1 = Recent snag, fine branches present
 - 2 = Loose bark, only major limbs left
 - 3 = Clean bole only, few branch stubs
 - 4 = Broken stem, snapped above DBH







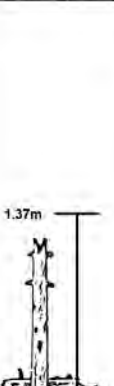
						
Stage 1 Live	Stage 2 Declining	Stage 3 Dead	Stage 4 Loose bark	Stage 5 Clean	Stage 6 Broken	Stage 7 Decomposed
		Frag Class 1	Frag Class 2	Frag Class 3	Frag Class 4	Do not measure

Figure 4. The different stages of standing dead trees and their corresponding fragmentation class. Adapted from Maser et al. (1979).

- **Unusual DBH:** indicate yes/no when measurement is moved due to an irregularity at DBH (swelling, bump, branch, fork, etc.) and describe in the notes field where the location of the DBH was recorded instead and why it was moved.
- **Pest/Pathogen signs:** If any damage is evident, use the diagnostic key for tree pest detection to pinpoint the area and type of damage (Sanders et al. 2014). Examine the bark as well as any branches, leaves/needles, and buds that are accessible and/or observable from the ground. Only list damage on dead trees if the causal agent is obvious (this will be rare). Table 1 lists the primary and secondary pest and pathogen signs, as well as the shortcut abbreviation used for recording evidence of pests or pathogens on the datasheet.

Table 1 has been adopted from the National Park Service's GLKN forest vegetation monitoring program, which uses an evidence-based approach where only signs of disease presence (e.g., cankers, mycelial fans) or damage (e.g., insect exit holes, leaf mining) are observed and noted. Using this method does not require that a field crew actually identify the causal agent (e.g., anthracnose, emerald ash borer), unless the crew member is completely certain as to the source or cause. With instances of repeated and/or widespread disease or damage, samples will be collected and submitted to experts for confirmation of the causal agent.

Table 1. Primary and secondary pest and pathogen signs to look for using the diagnostic key (Adapted from Sanders et al. 2014).

1° Pest/Pathogen Sign	2° Pest/Pathogen Sign	Abbreviation to record
Dieback	>10%, but not pervasive	Die - >10%
Dieback	pervasive, throughout the crown	Die - pervasive
Epicormic sprouts	on bole (not root collar)	Epi sprouts
Wilted foliage	partial crown	W - partial crown
Wilted foliage	whole crown	W - whole crown
Environmental	frost cracks	Env - frost cracks
Environmental	lightning strike	Env - lightning
Environmental	hail injury	Env - hail
Environmental	sunscauld	Env - sunscauld
Environmental	broken branches	Env - broken branches
Environmental	flooding	Env - flooding
Environmental	drought/poor soil	Env - drought
Environmental	cedar bark splitting	Env - cedar splitting
Environmental	Fire scar or cambial damage due to fire.	Env - fire
Environmental	other	Env - other
Human-caused Stress	topping/poor pruning	Stress - topping
Human-caused Stress	poor or restricted planting/mulching	Stress - restricted planting
Human-caused Stress	wounding of woody tissues	Stress - wounding
Human-caused Stress	salt/chemicals	Stress - salt
Human-caused Stress	Other, such as axe marks, embedded nails or fence wire.	Stress - other
Defoliation	defoliation > 10% foliage, but not pervasive	Def - > 10%
Defoliation	defoliation pervasive throughout crown	Def - pervasive
Defoliation	leaf mining, > 10% of foliage, but not pervasive	Def - leaf mining >10%
Defoliation	leaf mining, pervasive throughout crown	Def - leaf mining, pervasive
Defoliation	chewing of the mid-rib only (any level)	Def - midrib only
Discolored Foliage	mottling, spots, or blotches	DF - mottling/spots
Discolored Foliage	marginal scorching of leaves	DF - marginal scorching
Discolored Foliage	interveinal scorching of leaves	DF - interveinal scorching
Discolored Foliage	white coating	DF - white coating
Discolored Foliage	black coating (often sticky)	DF - black coating
Discolored Foliage	complete browning/bronzing of needles	DF - browning/bronzing
Discolored Foliage	complete yellowing of leaves or needles	DF - yellowing
Discolored Foliage	stippling	DF - stippling
Discolored Foliage	yellow/orange/white pustules	DF - pustules
Abnormal Foliage	foliage/twigs distorted or galls	AF - distorted/galls
Abnormal Foliage	witches' brooms	AF - witches' brooms
Insect Signs - foliage & twigs	caterpillars/sawflies feeding throughout crown	ISFT - caterpillars feeding
Insect Signs - foliage & twigs	beetles feeding throughout the crown	ISFT - beetles feeding
Insect Signs - foliage & twigs	aphids/white cotton pervasive throughout crown	ISFT - aphids/white cotton
Insect Signs - foliage & twigs	bags pervasive throughout the crown	ISFT - bags
Insect Signs - foliage & twigs	scales pervasive throughout the crown	ISFT - scales
Insect Signs - foliage & twigs	tents/webbing on more than one branch	ISFT - tents/webbing
Foliage dieback Affected	> 10% but less than 30%	Fol - > 10%
Foliage dieback Affected	>30% but not the whole crown	Fol - > 30%
Foliage dieback Affected	whole crown	Fol - whole crown
Insect Signs - branches & bole	frass only	ISBB - frass
Insect Signs - branches & bole	sawdust	ISBB - sawdust
Insect Signs - branches & bole	pitch/resin exudation	ISBB - pitch/resin
Insect Signs - branches & bole	D-shaped exit holes	ISBB - D-shaped
Insect Signs - branches & bole	pencil round or oval exit holes (≥2mm)	ISBB - round/oval
Insect Signs - branches & bole	shot holes (< 2mm)	ISBB - shot holes
Insect Signs - branches & bole	other holes	ISBB - other holes
Insect Presence	caterpillars	IP - caterpillars
Insect Presence	beetles	IP - beetles
Insect Presence	aphids	IP - aphids
Insect Presence	scale	IP - scale
Insect Presence	carpenter ants	IP - carpenter ants
Disease Signs	decay	DS - decay
Disease Signs	conks	DS - conks
Disease Signs	fleshy mushrooms	DS - mushrooms
Disease Signs	cankers	DS - cankers
Disease Signs	bleeding/slime flux	DS - bleeding
Disease Signs	resinosis/gummosis	DS - resinosis
Disease Signs	woody galls or burls	DS - galls or burls
Problem Location	branches	PL - branches
Problem Location	bole and/or root collar	PL - bole
Problem Location	both branches and bole	PL - branches & bole
Loose Bark	loose bark only	LB - loose bark only

Loose Bark	rhizomorphs present	LB – rhizomorphs
Loose Bark	mycelial fans or pads present	LB – mycelial fans/pads
Loose Bark	insect boring or galleries causing loose bark	LB – insect boring
Bark Damage	Bird damage such as woodpecker or sapsucker holes	BIRD
Bark Damage	Mammal rubbing such that bark is severely damaged	MAMMAL

Special DBH situations:

1. Forked tree: Trees which fork at or above breast height (1.37 m) are measured as one tree. Diameter should be measured below the point at which forking affects DBH (Figure 5). Note: **Fork does not have to be live to be considered a fork.** When forks occur, the limiting distance for whether a tree is counted in a belt transect is the same for all forks--they are either all in or all out --and it is determined by the central stump.

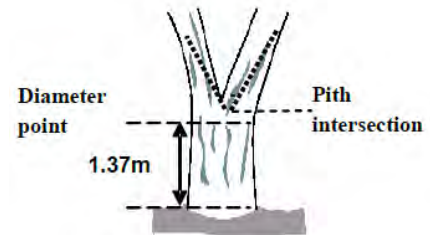


Figure 5. One tree.

2. For trees that fork below breast height (1.37 m), each trunk ≥ 2.5 cm is measured as a separate tree. Use the following rules to measure the DBH of forked trees:

Trees forked between ground and 30 cm. Trees forked in this region are treated as distinctly separate trees (Figure 6). Distances are measured individually to the center of each stem where it splits from the base of the tree.

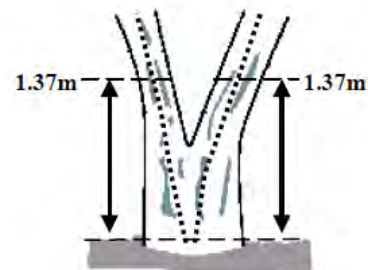


Figure 6. Forked below 30cm.

Trees forked between 30 cm and 1.37 m. Trees forked in this region are also counted as separate trees (Figure 7), but the DBH of each fork is measured at a point approximately 1.07 m (3.5 feet) above the pith intersection (Figure 8F).

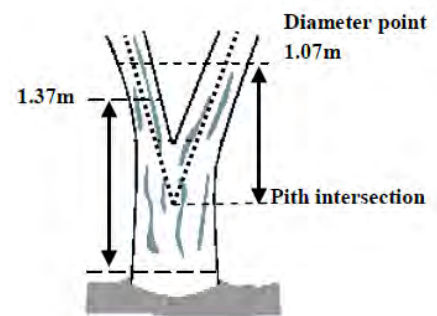


Figure 7. Forked between 30cm – 1.37.

3. Stump Sprouts: Stump sprouts that originate between ground level and 1.37 m on the boles of trees are handled the same as forked trees, provided they are ≥ 2.5 cm. Stump sprouts originating below 30 cm are measured at 1.37 m from ground line. Stump sprouts originating between 30 cm and 1.37 m are measured at 1.07 m above their point of occurrence, as discussed in the forked tree rules above.

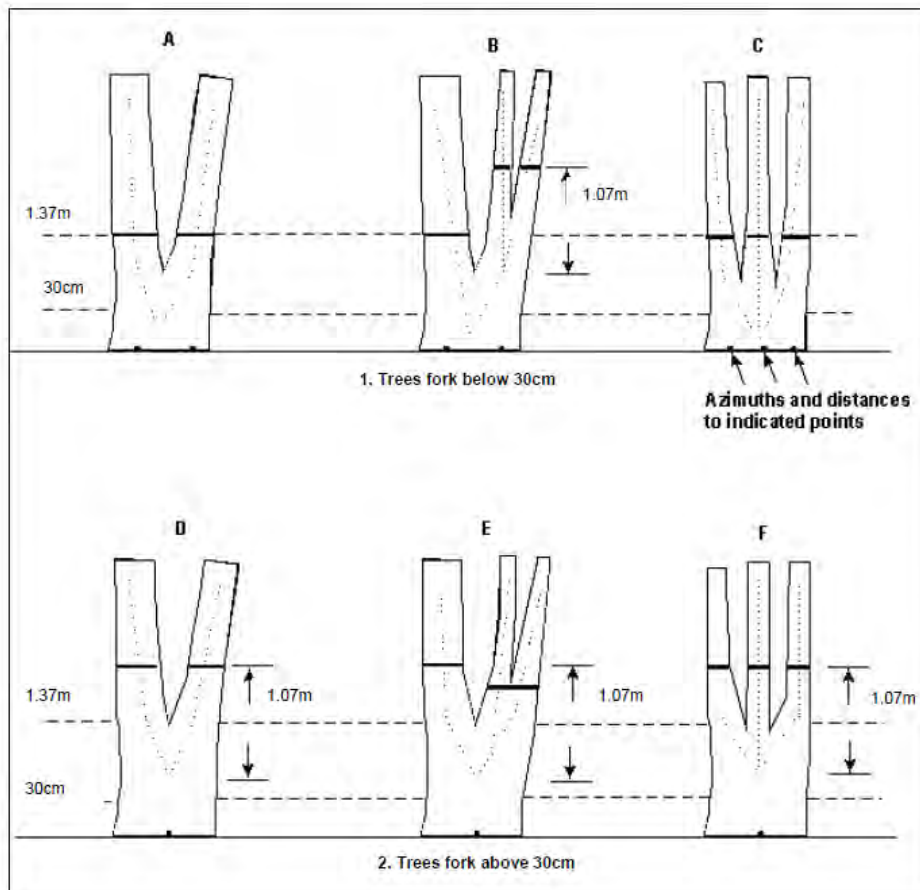


Figure 8. Summary of where to measure DBH on forked trees. (adapted from Sanders et al. 2014)

4. Tree with butt-swell or bottleneck: Measure these trees 46 cm above the end of the swell or bottleneck if the swell or bottleneck extends 91 cm or more above the ground (Figure 9).
5. Tree with irregularities at DBH: On trees with swellings (Figure 10a), bumps, depressions, or branches (Figure 10b) at DBH, measure the diameter immediately above the irregularity at the place it ceases to affect normal stem form. Note on the form where you took DBH and the irregularity.

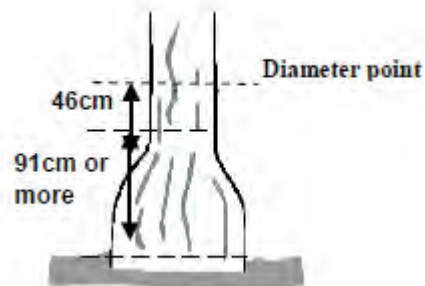


Figure 9. Bottleneck tree.

Note: *If a normal diameter cannot be obtained at or above 1.37 m, it is valid to measure diameter just beneath any swelling that would inflate DBH and note at what height you measured DBH on field form.*

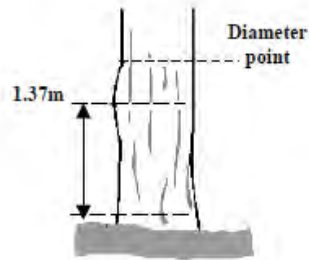
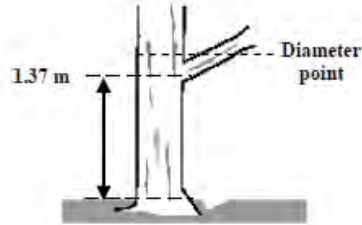


Figure 10. a) Tree with swelling



b) tree with branch.

6. Tree on slope: Measure diameter at 1.37 m above the ground on the uphill side of the tree (Figure 11).
7. Leaning tree: Measure diameter at 1.37 m from the ground, measured along the underside face of the bole (Figure 12).
8. Independent trees that grow together: If two or more independent stems have grown together at or above the point of DBH, continue to treat them as separate trees. Estimate the diameter of each using a caliper.
9. Missing wood or bark: Do not reconstruct the DBH of a tree that is missing wood or bark at the point of measurement. Record the diameter (to the nearest 0.1 cm) of the wood and bark that is still attached to the tree (Figure 13). If a tree has a localized abnormality or missing part of main bole (or gouge, depression, etc.) at the point of DBH, apply the procedure described for trees with irregularities at DBH (Figure 10).
10. Live windthrown tree: Measure from the top of the root collar along the length to 1.37 m (Figure 14). Note that this only applies to **live, rooted trees**. The angle of the tree from the vertical does not matter as long as the tree is **alive**.
11. Down live tree with tree-like branches growing vertical from main bole. When a down live tree that is touching the ground has vertical (less than 45 degrees from vertical) tree-like branches coming off the main bole, first determine whether or not if the pith of the main (downed) bole is above or below the duff layer.
 - If the pith of the main bole is above the duff layer, use the same forking rules specified for a forked tree, where if the vertical tree-like branch occurs below 1.37 m from the stump along the main bole, treat that branch as a separate tree, and measure DBH 1.07 cm above the pith intersection for both the main bole and the tree-like branch (Figure 15).

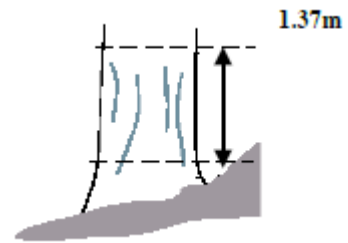


Figure 11. Tree on slope

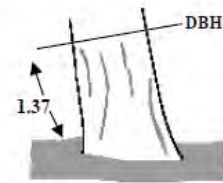


Figure 12. Leaning tree

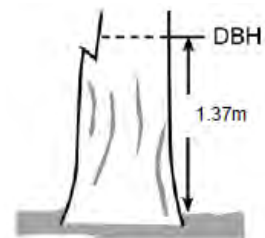


Figure 13. Tree with part of stem missing.

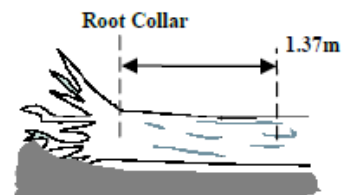


Figure 14. Tree on the ground.

- If the intersection between the main down bole and the tree-like branch occurs beyond the 1.37 m point from the stump along the main bole, treat that branch as part of the main down bole (i.e., do not tally it; Figure 15).
- If the pith of main tree bole is below the duff layer, ignore the main bole, and treat each tree-like branch as a separate tree; take DBH from the ground, not necessarily from the top of the down bole. However, if the top of the main tree bole curves out of the ground towards a vertical angle, treat that portion of that top as an individual tree originating where the pith leaves the duff layer (Figure 16).

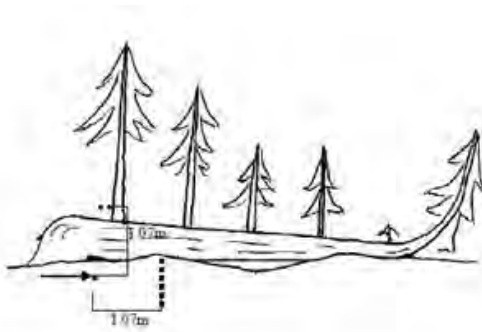


Figure 15. Down tree above duff.

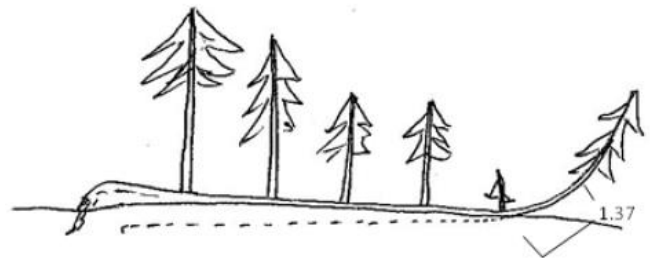


Figure 16. Down tree below duff.

12. Tree with curved bole (pistol butt tree): Measure along the bole on the uphill side (upper surface) of the tree (Figure 17).

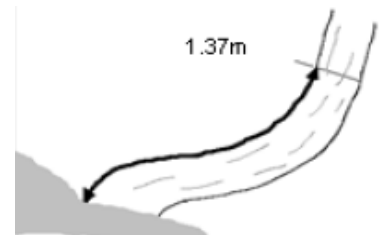


Figure 17. Tree with curved bole (pistol butt tree).

13. Trees growing on objects: When trees are growing on objects, such as rocks or logs, measure diameter at 1.37 m above the root crown rather than from the forest floor (Figure 18).

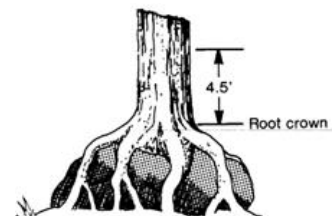


Figure 18. Tree growing over objects, measure starting at root crown.

Ground Layer Quadrat Measurements

Herbaceous plants and woody species including shrubs and vines < 2m in height and less than 2.5cm DBH are assessed within the 1 × 1 meter ground layer quadrats, placed every 5 meters (Figure 1). Each of these 1m² plots contain a smaller 0.1m² nested plot in the corner adjacent to the transect, where all species that occur within this area are first marked as present in the nested. Additional species that occur outside the nested plot are then listed before recording cover for the entire 1m² area. Cover class categories to be used are **1**=<2%; **2**=2–10%; **3**=10–25%; **4**=25–50%; **5**=50–75%; **6**=75–100% (Figure 19).

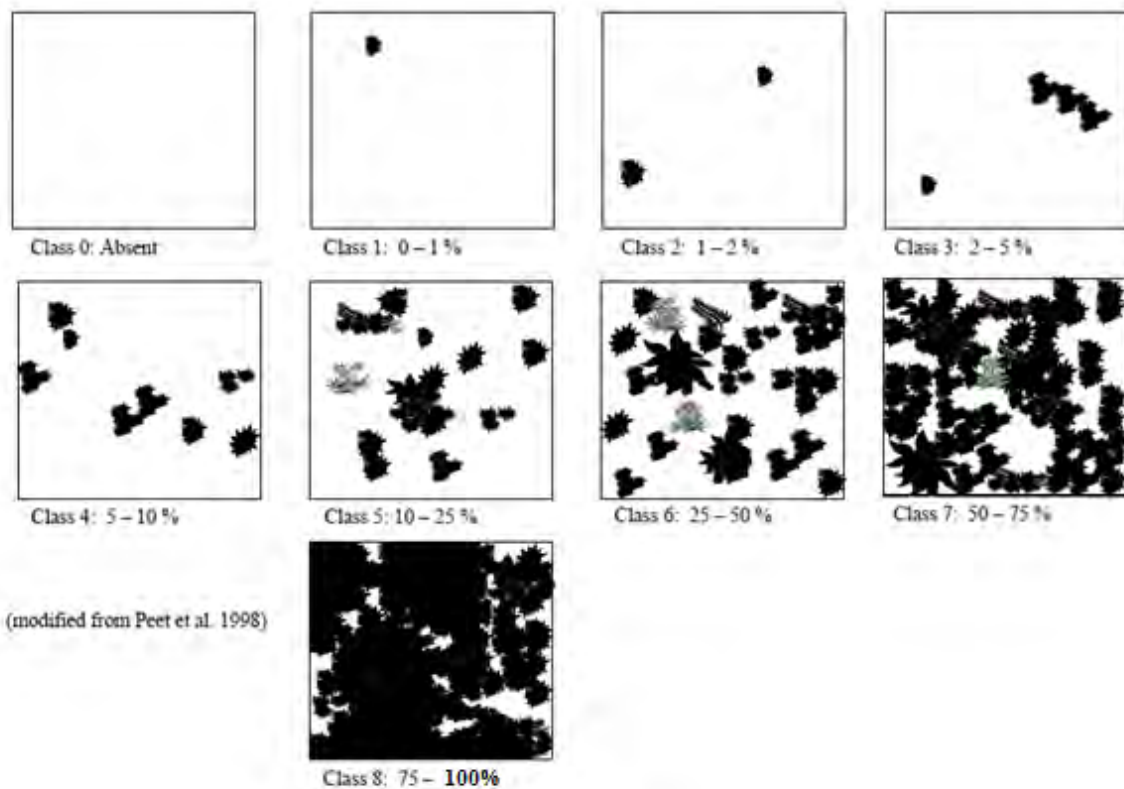


Figure 19. Illustration of ground layer cover classes to be assigned for quadrats (Modified from Peet et al. 1998).

Notice the exact percentage breakpoints can be in two different classes (e.g., 10-25% and 25-50%). This is not a mistake and a choice regarding the cover class will be either that it is less (as in 10-25%) or slightly more (as in 25-50%) if it is close to 25%. The most suitable class should be assessed and recorded as rapidly as possible while maintaining accuracy.

Begin each quadrat first by assessing non-vascular cover using the cover classes shown below under *Foliar Cover*.

- **Non-vascular cover:** Estimate cover within the 1m² quadrat for *Sphagnum* and non-*Sphagnum* bryophytes. Non-vascular moss on coarse woody debris that is suspended above the ground are not included. However, if there are rocks or decaying coarse woody debris that has cover of moss such that it grows continuously from the soil and over these features on the ground, consider this bryophyte cover to be counted as it is part of the ground layer. Bryophytes growing on tree trunks are not included since the trunk is vertical.

After completing the non-vascular cover categories, move down to the vascular plant fields, where the bulk of the data will be recorded:

- **Vascular species frequency** is first recorded in the nested plot (0.1m²), where a check mark is recorded to indicate a species is present and rooted in the smaller quadrat. The observer then moves to the larger 1m² quadrat, recording any additional species not previously encountered in the nested plot, followed by assessing cover for all species within the 1m² plot.
- **Foliar Cover** is recorded for each individual vascular plant that has cover under 2m in height using the appropriate cover class in the 1m² quadrat. The total for all species in each quadrat can be less than 100%, if portions of the quadrat are un-vegetated. The total can also exceed 100% if vegetation is dense and overlapping. However, overlap of vegetation of the same species is ignored. There will often be overlap of plants of different species and this does need to be considered. Therefore, the total cover for a quadrat may exceed 100%.

Vegetation cover is assessed for the entire 1m² quadrat, and only for individuals that are rooted in the quadrat. In other words, plants rooted in, but that are bent over so their cover is mostly outside the quadrat, will only be given a cover value based on the foliage that covers the quadrat where it lies naturally. Species that are rooted outside the quadrat but have cover overhanging the plot are not included. Imagine the percent cover of each plant as a shadow on the ground if the sun were directly overhead.

Bare twigs or branches, dead woody species without foliage and woody vines without foliage do not count towards cover (e.g. large grape vines without foliage in the quadrat).

All foliage or vegetation that was recently alive during the current growing season is included in the cover estimates. For example, species in the Liliaceae Family tend to senesce in early August so an estimate of its recent cover should be attempted. Thus, if the leaves were clearly recently alive, consider it as such and adjust cover estimates accordingly. Aerial cover from recently broken fern fronds (e.g., broken or bent fronds of bracken fern) and stems are also included if it is clear they were recently growing and green, unless completely detached and dead. Bracken fern (*Pteridium aquilinum*) is often easily broken while setting up transects, thus minimizing trampling impacts to this species is especially important. However, in the event the stems are broken, lift the top frond to an upright position and adjust cover estimates to the best of your ability.

Additionally, rhizomatous or stoloniferous species such as *Fragaria virginiana* that have runners that cross or drape over or through the quadrat area are not counted. Thus, if runners are not rooted and without leaves, these species are not considered as growing in the quadrat and are not recorded or considered to have cover. Other species with similar growth are *Vaccinium oxycoccos*, *Rubus pubescens*, *Linnaea borealis*, and *Carex assiniboinensis*, to name a few.

- **Recording uncertainty:** Record your level of confidence in the species identification for each plant where there is uncertainty at any taxonomic level. Recording your confidence in the identification is important. Use the following codes to record uncertainty level, particularly for uncollected individuals. See Appendix A for a list of accepted groups.

#	Uncertainty/reliability desc.
3	species group
4	species uncertain
5	only genus is certain
6	Genus is uncertain
7	unknown
8	only the family is certain

- **Tree seedling and sapling tallies:** Count number of tree seedlings that are less than <2.5cm DBH. Qualifying tree seedlings must also be at least 5 cm tall or exhibit signs of second-year growth, such as previous years' bud scars. Seedlings experience high mortality due to high mast years, weather and predation. Thus, if a seedling is present, but does not have second year's growth and it is not counted in the tally, then record 0 to acknowledge that the seedlings were zero and the count was simply not forgotten.

If there are numerous seedlings at the base of a tree, but they are growing from the ground, they are counted. If you can clearly see that the sprouts are growing from the trunk of a tree, do not count them, thus do not tally any seedlings that sprout from a live tally tree.

Do not count "layers" of branches if they are clearly still connected to that of another main stem and only shallowly rooted under leaf litter or moss substrate. In the case of *Thuja occidentalis* or *Picea mariana*, which roots and produces ramets from downed trees or moss-covered lower branches, count the number of ramets rooted within the ground layer quad only if the pith of the downed tree bole from which they are growing lies below the duff or moss layer. Vegetative regeneration through layering is an important means of reproduction in black spruce swamps and bogs in Minnesota. For example, if moss-covered, lower branches from an adjacent *Picea mariana* appear to have advanced growth, such that these branches have transitioned toward having a primary leader and the branch can no longer easily be pulled above the upper moss layer, then count this as an individual seedling or sapling.

Do not include these species in seedlings tallies, as they are not considered canopy trees:

- *Crataegus* spp.
- *Salix* spp. (see below for exceptions)
- *Amelanchier* spp.
- *Alnus* spp.
- *Prunus virginiana*
- *Acer spicatum*
- *Prunus pensylvanica*
- *Sorbus americana*

Do include these understory tree species in the tallies of seedlings:

- *Carpinus caroliniana*
- *Ostrya virginiana*
- *Prunus nigra*
- *Prunus americana*
- *Juniperus virginiana*
- *Sorbus decora*
- *Prunus serotina*
- *Salix nigra*
- *Salix amygdaloides*
- *Salix fragilis* (non-native canopy tree willow)
- *Salix x rubens* (non-native canopy tree willow)

When there is no data or quadrats cannot be sampled

If there are no plants in a quadrat, the quadrat is considered sampled, but with no data. A quadrat landing on a dirt trail with no living plants is considered sampled with no data because there is potential for vegetation to grow there. A quadrat comprised of mud, a pile of coarse woody debris, or a large tree trunk with no visible vegetation growing should also be considered as sampled, no data. Clearly write in transect notes which quadrats were sampled, but with no data.

Similarly, if a quadrat is not sampled, due to a safety concern or a transect was cut short as it was under water one year, clearly write in transect notes which quadrats were not sampled. Some examples where using this would be applicable would be when a quadrat lands completely on paved area or large boulder or rock slab where there are no plants, and they are unable to ever grow there. Additionally, a quadrat may be skipped due to a ground hive or other safety issue, or any quadrat with water deep enough that you cannot tell if vegetation is growing or not should also be noted as not sampled.

The following applies to recording on paper datasheets only. For **sampled no data** or **not sampled**, draw a line through the column for the specific quadrat number and at the top of the column write **ND** or **NS**, respectively.

Unknown species

If a plant cannot be identified to species quickly and confidently by crew members in the field, record genus or family, if possible, and choose appropriate taxonomic uncertainty level.

When collecting voucher specimens for later identification, try to remove the root as well as the aboveground portion of the plant. All field crews will carry a trowel with them for this purpose. Soil should be knocked free from the roots to the extent possible without damaging them. An unknown plant tag should then be attached and labeled with the plot number, quadrat(s) it is associated with as well as transect(s). In the event that a woody plant species cannot be identified, portions of these plants may be cut and removed from the field for later identification. All crews carry pruning shears for this purpose.

When collecting plants, an attempt must first be made to locate individuals of the same species outside of the outer boundary of the plot. If this is not possible, collections should at least be made outside of the quadrats. If this is not possible, then either take a photo of the plant from different angles and/or consult with the field lead on the best way to extract the minimum amount of material needed for identification. If reproductive structures are present (i.e., viable seeds, fruit, decaying acorns), be sure to collect enough material to aid in later identification. However, only the minimum amount needed should be collected.

Collected specimens are then placed in a plastic bag for later identification. Keep the specimens in as cool and dark of a place as possible while you continue to work, and do not allow it to be crushed.

Follow these guidelines to determine whether and how to collect a specimen for subsequent identification:

- Exercise caution when removing plants for voucher specimens. Do not collect the entire plant, including the roots, if any unknown is represented by 5 or fewer individuals (i.e., locally sparse) in the general vicinity of the plot. Consider taking only a small portion of the plant that will aid in identification. If an unknown plant is not locally rare, it can be collected from inside the plot, but outside the quadrats.
- Do not remove entire plants (including roots) from within the quadrats. If the plant occupies greater than 2 % cover and is sufficiently robust, a portion of the plant may be removed from within the quadrat such that the overall cover of the plant within the quadrat is not significantly affected.
- Anytime it is not possible to collect a specimen, take a photograph. Place a ruler in the photograph for scale, and allow the camera to automatically select the appropriate aperture for the given light conditions. Use the Macro setting to take detailed close up photographs of smaller plants.

When back at the vehicle or that same evening, press bagged/collected specimens in provided pressing materials and plant press. On each individual specimen sheet, transcribe what was written on the attached plant labels: transect(s), quadrat(s), and plot ID plant is associated with as

well as the date and any other information that will be helpful to correctly connect the unknown plant with all quadrats where it was recorded at a later date, once it is identified.

Coarse Woody Material

Coarse woody materials are also assessed along each of these three transects, whereby data are collected on all downed wood which intersects the transect plane, with a diameter ≥ 7.5 cm (following FIA standards) at the point of intersection. Data on coarse woody material will be collected along each of the three parallel 45 m horizontal distances using the planar intercept method. Tally rules follow below. For all pieces of coarse woody material tallied, the parameters recorded are: species, diameter at plane intercept, distance along transect, and decay class.

- **Transect:** record transect number.
- **Species** – Record each piece of coarse woody material if it is possible to identify which is ≥ 7.5 cm and > 1 m in length that crosses the plane of the transect. Because this is a planar transect, the tree is counted whether it is on the ground, or at any height above it. If species cannot be determined, record either **Unknown conifer; Unknown hardwood; or Unknown**.
- **Distance:** record distance where CWD intersects
- **CWD length:** Record only woody pieces that are ≥ 1 m
- **Diameter at intersection:** Record the diameter (in centimeters) at the point of intercept. This diameter is measured perpendicular to the length of the log, regardless of the orientation of the piece to the transect plane. Record the measurement to the tenth of a centimeter, rounding down, rather than to the nearest tenth. For example, a reading of 12.78 cm is recorded as 12.7 cm.
- **Decay class:** Record the decay class of the piece using the rules outlined in Table 2. Because decay conditions may vary along a piece, record the decay class that predominates (Table 2)

Table 2. Distinguishing characteristics of the five decay classes (From Woodall and Williams, 2005).

Decay class	Structural integrity	Texture of rotten portions	Color of wood	Invading roots	Branches and twigs
1	sound, freshly fallen, intact logs; all bark intact; hard when kicked	intact, no rot; conks of stem decay absent	original color	absent	if branches are present, fine twigs are still attached and have tight bark
2	sound; some bark missing; hard when kicked	mostly intact; sapwood partly soft (starting to decay) but can't be pulled apart by hand	original color	absent	if branches are present, many fine twigs are gone and remaining fine twigs have peeling bark
3	heartwood sound; most of the bark is missing; piece supports its own weight; still hard when kicked	hard, large pieces; sapwood can be pulled apart by hand or sapwood absent	reddish brown or original color	sapwood only	branch stubs will not pull out, and most of the branches < 1" missing
4	heartwood rotten; piece does not support its own weight, but maintains its shape; sounds hollow when kicked and you can remove wood from outside with boot	soft, small blocky pieces; a metal pin can be pushed into heartwood	reddish or light brown	throughout	branch stubs pull out
5	none, piece no longer maintains its shape, it spreads out on the ground; easy to kick apart	soft; powdery when dry	red-brown to dark brown	throughout	branch stubs and pitch pockets have usually rotted down

Tally Rules for Coarse Woody Material Sampling:

1. Tally dead and down trees whose central longitudinal axes intersect the transect plane (Figure 20). This includes all unrooted dead trees and their branches regardless of the angle at which they are leaning away from vertical. Some parameters may have to be estimated, depending whether part or all of the piece is elevated.

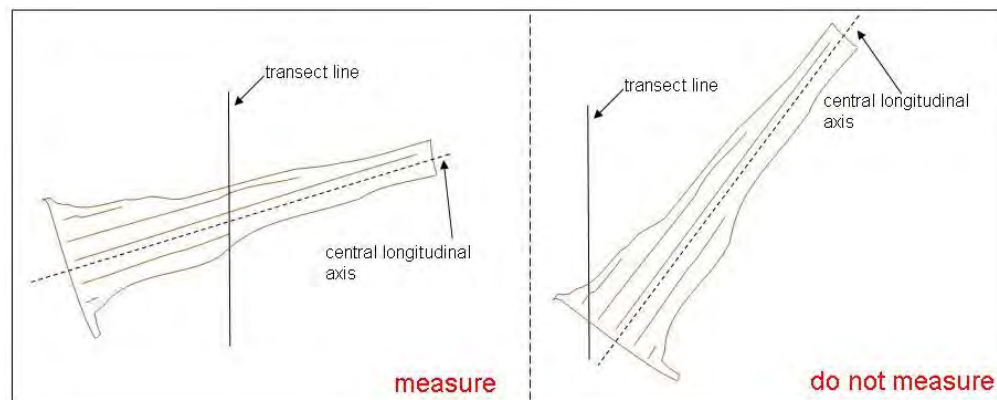


Figure 20. Do not tally any CWM piece whose central longitudinal axis does not cross the transect plane. (Adapted from USDA 2018 and Sanders 2014).

2. Tally dead trees and stumps that are leaning $\geq 45^\circ$ from vertical. (Do not tally live trees or standing dead trees and stumps that are still upright and leaning $< 45^\circ$ from vertical. See section “Tree Data” above.)
3. The minimum length of any tally piece is 1 m for decay classes 1 through 4.
4. The decay class of the piece determines whether or not the piece is tallied.
 - **For decay classes 1 to 4:** tally a piece if it is ≥ 7.5 cm in diameter at the point of intersection with the transect plane. The piece must also be ≥ 1 m in length and ≥ 7.5 cm (3 in) in diameter along that length.
 - **For decay class 5:** tally a piece if it is ≥ 10 cm in diameter at the point of intersection with the transect. The piece must also be ≥ 1.5 m in length and ≥ 10 cm in diameter along that length. Only pieces that still have some shape and log form are tallied – humps of decomposed wood that are becoming part of the duff layer are not tallied.
5. If coarse woody debris was created by human activities, such as logging or cutting, tally these as well, but only if it has been left scattered across the site. Do not tally if it has been left in a pile.
6. Tally a piece only if the point of intersection occurs above the ground. If one end of a piece is buried in the litter, duff, or mineral soil, the piece ends at the point where it is no longer visible. Measure the diameter and length at this point.
7. If the central longitudinal axis of a piece is intersected more than once on a transect plane, tally the piece each time it is intersected. This is an uncommon situation. (Figure 21).
8. If a piece is fractured across its diameter or length, and would pull apart at the fracture if pulled from either end or sides, treat it as two separate pieces. Tally only the piece intersected by the transect plane. If judged that it would not pull apart, tally as one piece.
9. Do not tally a piece if it intersects the transect plane on the root side of the root collar (see right side of Figure 20). Do not tally roots. Stumps that are rooted in the ground are also not recorded.

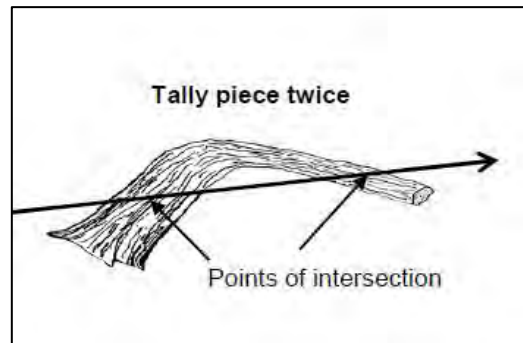


Figure 21. If the central longitudinal axis crosses a transect twice, then tally the piece twice. (adapted from USDA 2018)

10. When the transect crosses a down tree bole that is forked, or a large branch connected to a down tree, tally each qualifying piece separately (Figure 22). To be tallied, each individual piece must meet the minimum diameter and length requirements.
11. In the case of forked trees, consider the 'main bole' to be the piece with the largest diameter at the fork. Variables for this fork, such as 'decay class' and 'total length' should pertain to the entire main bole. For smaller forks or branches connected to the main bole (even if the main bole is not a tally piece), variables pertain only to that portion of the piece up to the point where it attaches to the main bole (see Figure 22).

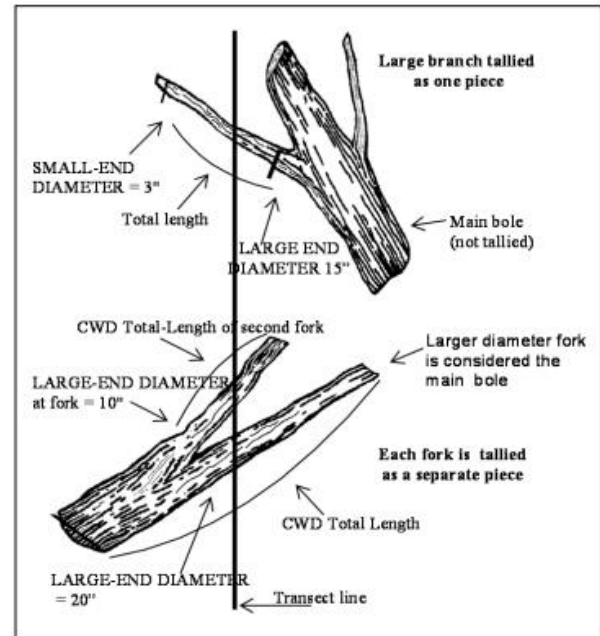


Figure 22. CWM tally rules for forked trees. (adapted from USDA 2018)

12. For pieces that cannot be taped and are not round in cross-section because of missing chunks of wood or "settling" due to decay, measure the diameter in two directions and take an average. Estimate the longest and shortest axis of the cross-section ("A" and "B" in figure), and enter the average in the diameter field (Figure 23).
13. Any transect that has no CWD is marked as **"Sampled with no data."** If a transect was not sampled due to time constraints or safety, write **"not sampled"** in the notes section.

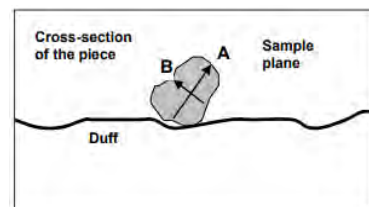


Figure 23. Estimating the diameter of pieces that are not round in cross-section.

Direct Browse and Shrub Frequency

For each direct browse sampling circle (Figure 24), record the presence of all woody species that have foliar cover below 2 m in height (defining the "molar zone"). In addition to species presence, evidence of ungulate browse on each species in the sampling circle is recorded. Impact on woody species where all twigs are higher than 2 m are not recorded, as these shrubs or trees are considered to have grown out of the reach of deer. Attempt to document browsing evidence only for twigs browsed by deer, which is characterized by ragged ends of twigs unlike the sharp, 45° cut typical of rabbit and hare (*Sylvilagus* spp., *Lepus americanus*) browsing (Figure 25). Observations of browse should also attempt to focus on current year's browse, where twig ends

are more ragged and often still green; previous year's browsing is characterized by a length of dead, discolored twig between the browse point and current year's growth. However, it is recognized that this is sometimes difficult to determine if the browse occurred during the winter months. In light of this, err on the side it being browsed. We will also use the presence data from the direct browse assessment to obtain shrub frequencies.

Unlike the quadrat data, note that for both presence and browse, it does not matter whether a tree or shrub is rooted within the 1m radius cylinder; presence and browse are recorded as long as any part of a tree or shrub falls within the cylinder and if any part within the cylinder is browsed. For example, browse is noted on a tree rooted outside of the cylinder that has branches extending into the cylinder, where it is browsed. Conversely, a tree that is rooted within the cylinder is marked as present, but if the browsed portion is outside of the cylinder, it is not be marked as such.

It is possible there will be no shrubs or saplings within the sampling circle; in these instances, no direct browse is assessed for those sampling circles. These browse circles are considered sampled, but with no data. Clearly write in transect notes which quadrats were sampled, but with no data. If an entire transect has no woody species present, be sure to indicate this in the transect notes.

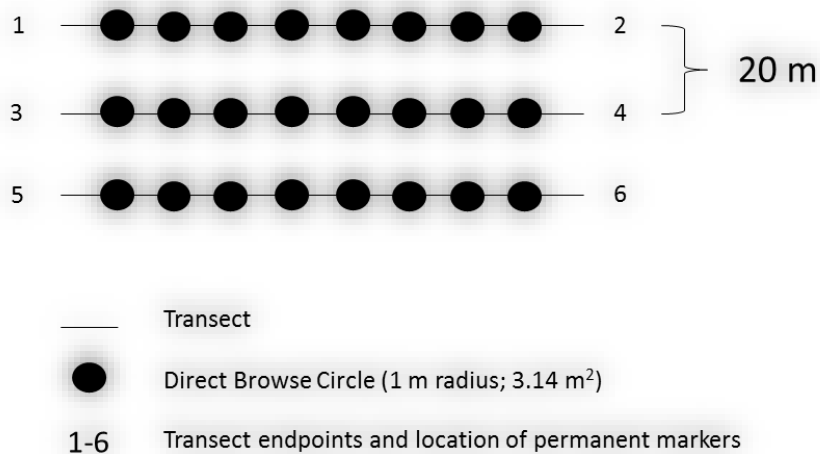


Figure 24. Direct browse sampling circles every 5m in plot.

The following applies to recording on paper datasheets only. Clearly write **ND** to represent **sampld, no data** in the appropriate column for the browse circle represented. If an entire transect has no woody species present, be sure to write this on the datasheet so that it is clear to others doing data entry in the future that this data was simply not forgotten.

Additional Species Walkthrough Datasheet

Prior to completing the plot, a ≤ 30 minute (depending on the habitat) time-delimited walkthrough is conducted to determine the complete list of species that are present in each plot. The area to be searched is delimited by the outer transect lines; thus 40m x 45m for wooded systems and 20m x 45m for open systems. Any species that have already been accounted for in the ground layer, shrub or tree sampling areas are not recorded again. During the 30 minutes, focus the time finding species that are truly being missed by the quadrats, not species that shows up a single time, a single grass species that has no diagnostic parts for identification, or is rare and not indicative of the community.



Figure 25. Left twig shows ragged tear reflecting deer browse. On the right is hare browse that is a clean, 45 degree angle.
Source: <http://extensionpublications.unl.edu>

Earthworm Assessment Datasheet

Earthworm assessments will occur in all upland forested plots. Two, 1m² earthworm assessment sites will be selected by the field crew either within, or adjacent, to the plot to look for evidence of earthworms (Figure 26). Plots will be selected subjectively in order to characterize the plot and surrounding area. Earthworm monitoring will be limited to two goals: determine whether or not there is evidence of earthworms present and to what extent, and determine the depth of layers of the upper soil surface as an additional explanatory variable. The earthworm and soil assessments are designed to address two key questions:

- Are upper soil organic layers changing over time? Earthworms can change organic soil properties that may drive consequent changes in plant growth (e.g., richness, diversity). As such, we will measure organic layer depth (litter, duff, and humus) and test for associations between organic layer depth and vegetative indices.
- Is there evidence of earthworms at vegetation monitoring plots? We will use visual cues on the forest floor as indicators of earthworm presence.

The earthworm assessments are not performed on trails or old roads, as the soil horizons in these areas will be compacted. Also, low-lying wet depressions should be avoided, unless the majority of the plot is a wet depression.

It is also helpful to also look around the larger plot area for exposed root crowns of trees and record this in the Earthworm Assessment notes, regardless of the forest floor ranking. We will only determine the presence of earthworm signs; no attempt will be made to quantify, collect, or identify earthworms during this sampling.

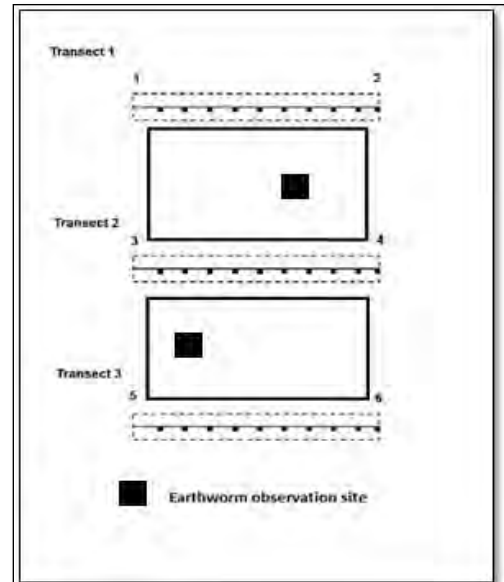


Figure 26. Example earthworm assessment areas.

Earthworm assessment plots

To begin, find two 1m² areas within the plot to assess the litter layer and record one of the following: 1) intact, layered forest floor in which fresh litter, fragmented and decaying litter, and humus are present (see below description of Oi, Oe, and Oa horizons); 2) litter layer partially fragmented, but containing litter from more than one year (Oi and Oe horizons); or 3) no intact litter, only freshly fallen leaves from the previous year (Oi horizon only). See Table 4 below for further help in selecting the assessment rankings and the description of organic layers.

O Horizon: organic layer of fresh and decaying residue at the surface. May be separated into three layers (but all three are not always present).

Oi = fresh litter, often complete or nearly complete leaves readily distinguishable and even identifiable to species. Often layered or matted. If this layer is dry and fluffy and yielding an unreliable measure of thickness, compress the leaves to simulate what it would be if “layered” and then measure the thickness.

Oe = relatively undecomposed organic material that is fragmented so that it is difficult to identify as to its specific type or species. Peat-like and generally not blackened in color.

Oa = humified or decomposed organic material with less than 50% mineral soil component (as estimated by visual inspection). May be very black and mixed with worm cast material, but still maintains network of roots (dead or alive) and recognizable organic material.

1. Using a ruler, measure the depth of the litter layer (O_i) in a number of places in the 1 m² assessment area. If the fresh litter on the forest floor has a lot of air space, compress it to get an estimate of the thickness.
2. Using the measured values, calculate an average litter layer depth.
3. Calculate the average depth of the duff, or fragmented litter, layer (O_e).
4. Calculate the average depth of the humus layer (O_a). Note that measuring the depth of the humus layer is sometimes more easily accomplished using a soil knife or other digging tool.
5. Brush away the litter layer and look for castings and middens (Figure 27a and b), classifying both as absent, present, or abundant.
6. For the castings, absent means you did not find any; present means there are some casts but you really need to look for them; and abundant means that the castings are very obvious to see as you move the leaf litter away.
7. For the middens, absent means you did not find any; present means there are some middens present (typically less than four); and abundant means there is a high density of middens. Middens are about 1-5 cm in diameter and 1-3 cm in height with a burrow hole



Figure 27. a) Earthworm castings.

b) Earthworm middens.

(Source: <http://www.greatlakeswormwatch.org>)

(2-4 mm in diameter) near the center. The burrow entrances of middens also often have large numbers of leaf petioles or fragments of leaves sticking out of them.

8. Determine the forest floor ranking on the scale of 1-to-5, as described below in Table 4 (Loss et al. 2013).

Table 4. Earthworm assessment ranking descriptions.

Rank Descriptions	What to look for
Rank 1, Earthworm free 1) Forest floor and humus fully intact and layered (Oi, Oe, and Oa horizons present) 2) Roots present in humus (Oa) and leaf fragments (Oe) 3) Forest floor coherent when picked up, with intact recognizable layers 4) No earthworms or earthworm sign present 5) Distinct and rapid transition from forest floor to mineral soil horizon (E horizon, A horizon largely absent)	Result: Plant community remains very diverse, dominated by native species, no expansion of Carex spp.
Rank 2, Minimally invaded 1) Humus present in patches (Oa horizon), may be slightly mixed with mineral soil; the rest of the forest floor is intact and layered (large and small fragmented leaves) 2) Some roots in the forest floor, but not thick 3) Small earthworms or cast material found in the forest floor 4) In mineral soil, earthworm castings present or absent, but not abundant 5) Lumbricus terrestris middens absent	Result: Plant community remains somewhat diverse, dominated by native species, minimal expansion of Carex spp.
Rank 3, Moderately invaded 1) Minimal forest floor present; larger, mostly intact leaves from the previous litter-fall present (Oi horizon) 2) Also, includes mostly intact, partially decayed leaves from more than one year (Oe horizon) 3) Plant roots absent or sparse in the thin forest floor 4) No humus present (Oa horizon) 5) Mineral soil and earthworm castings present, but not abundant 6) Small leaf fragments present under intact leaves 7) Lumbricus terrestris middens absent or rare	Result: Plant community may be somewhat diverse, with native species and/or with broken patches of Carex spp.
Rank 4, Substantially invaded 1) No forest floor; larger, mostly intact leaves from the previous litter-fall present (Oi horizon) 2) Sometimes includes mostly intact, partially decayed leaves from more than one year (Oe horizon) 2) No humus present (Oa horizon) 3) Mineral soil and earthworm castings abundant 4) Lumbricus terrestris middens present 5) Plant roots absent in forest floor.	Result: Plant community may be sparse OR be dominated by exotic species such as garlic mustard and European buckthorn OR have a broken-to-unbroken carpet of Carex spp.
Rank 5, Heavily invaded 1) No forest floor; only larger, mostly intact leaves from the previous fall present (Oi horizon) 2) No small leaf fragments from more than one year present (Oe horizon) 3) No humus present (Oa horizon) 4) Mineral soil and earthworm castings abundant 5) Lumbricus terrestris middens abundant 6) Plant roots absent in forest floor.	Result: Plant community may be sparse OR be dominated by exotic species such as garlic mustard and European buckthorn OR have a broken-to-unbroken carpet of Carex spp.

Grassland Criteria and Plot Establishment

Grassland sampling criteria includes:

- Grassland canopy tree cover is <10%. Transects are placed 10m apart where the minimum area of suitable area for sampling is 1500m², e.g., 50m x 30m. If >10% cover of trees is present, then consider it a wooded or forested plot and place transects 20m apart.
- Grasslands currently managed (e.g., mowing, grazing, prescribed fire, etc.) at a relatively low intensity.
- Formerly grazed or currently lightly grazed pastures or fields are acceptable provided native plants are the dominant cover (have >50% cover) and the vegetation present is identifiable if it is currently being grazed.
- Overgrown or infrequently mowed rights-of-way are acceptable, provided native plants consist of >50% cover and there is suitable area.

Sites that will not be considered include:

- Grasslands recently planted in monocultures are not accepted, even if it's a native species such as big bluestem (*Andropogon gerardii*). Additionally, areas planted in alfalfa or clover, especially if plantings comprise >50% cover, such that it is considered a planted monoculture.
- Prairie reconstructions on previously plowed land are not included. This will need to be assessed in the field and may be difficult to detect if plantings were done some time ago.
- Fields or pastures heavily grazed (based on assessment in the field) or grazed at time of data collection such that species identification would be difficult.
- Grasslands, hayfields, etc. that are mowed frequently.
- Agricultural fields that are fallow, where evidence of recent tilling observed and non-native species dominate.
- Conservation Reserve Program (CRP) grasslands. These lands are typically planted old fields that were formerly cropland.
- Manicured grasslands, such as golf courses, mowed cemeteries, city parks, or airfields.

Grassland Response Design and Data Collection

The primary sample unit for grassland community composition and structure monitoring consists of three 45 m, permanent transects (Figure 1), spaced 10 m apart. In savannas or other semi-forested systems, ideally, transects should be spaced 20 meters apart to allow adequate spacing for the tree belt transects.

If there is a sufficient amount of suitable habitat for sampling, the field crew proceeds to establish three transects parallel to elevation contours, if topography is present (see *General Criteria for establishing sampling sites in the field*). Similar to forests, distinct differences will exist in native prairie ecotones according to slope and aspect position. Additionally, the only remaining native grassland present is often on hillslopes. Cultivation is typically present (or

historically occurred) in the valley bottoms or upper slopes and hilltops, with hillsides left unplowed. Therefore if any gradient is present, attempt to keep the plot within similar soils and community type, according to aspect. For example, avoid running the transects from native prairie midslope to a valley bottom with an old field, or crossing from a dry prairie into a wet prairie.

If there is no topographic gradient present, then position the transects to run in an east-west direction to limit plot establishment bias similar to forested plots, with the GRTS random plot point representing the northwest corner. If there is not sufficient habitat for this placement, then orient the plot to fit within the space that exists where the transect ends have at least a 15 meter buffer from the edge of the prairie, or edge of disturbance or change in habitat.

Similar to forested systems, data on groundlayer (≤ 2 m height) height and foliar cover are collected in 24 nested quadrats (0.1 m^2 and 1 m^2 , 8 per transect) placed systematically (every 5 m) along each transect. Understory composition and abundance within 1 m^2 quadrats will be recorded to yield information describing species composition, including presence of non-native species. If present, trees and tall shrubs will be assessed in belt transects where each tree ≥ 2.5 cm diameter-at-breast-height (DBH) will be measured for status (live/dead), size (DBH) and condition. Tree seedlings will be quantified by species < 2.5 DBH within quadrats in order to evaluate any encroachment of trees in grassland systems over time.

See Forested Plot methods for details on data collection. Earthworm Assessment data will not be collected in grassland systems. However, Visual Obstruction Readings will be recorded at two locations per transect. The Visual Obstruction Method, commonly referred to as the Robel Pole Method, can be used to estimate the amount of standing biomass, particularly when certain management activities are being employed such as grazing or fire. Using this method, height and vertical density of standing vegetation can be monitored. It can be used in both upland and riparian areas where vegetation is less than 4 feet tall.

Visual Obstruction Reading

VOR observation points are conducted at the 15m and 30m marks of each transect. The sampling process involves taking a set of VOR readings from the four cardinal directions (N, E, S, W) using a VOR (Robel) pole. The VOR pole has alternating decimeters clearly marked along the length of the pole (Robel et al. 1970). The observer will take VORs at a height of 1 m and a distance of 4 m from the pole. Record the lowest half-decimeter mark visible on the pole (i.e., not completely obscured by vegetation). Once the three transects have been established, it is recommended that you record VOR before doing anything else, so that there is minimal disturbance to the vegetation structure.

Tree Measurements (if applicable)

If canopy tree species are present that consist of $> 10\%$ canopy cover, and there are woody species ≥ 2.5 cm DBH present in the plot, transects should be spaced 20 m apart. Otherwise, if

trees are present, but <10% cover, proceed with belt transects with the transects 10 m apart, measuring trees according to forested methods, see sampling details in that section.

Quadrat Measurements

See Forest Methods.

Direct Browse and Shrub Frequency

See Forested Methods. Despite there being minimal deer browse impacts in grassland areas, data collected on shrubs and other woody species will be used to assess woody species frequency.

Coarse Woody Material (if applicable)

See Forested methods.

Additional Species Walkthrough

See Forested methods.

Open Wetland Criteria and Plot Establishment

Wetland sampling criteria:

- The minimum area of suitable habitat is site dependent. Transects can be modified to fit narrow wetland zones (ensuring that there are ≥ 15 quadrats total), but an attempt should be made to avoid this scenario. Spacing of transects is 10 m apart, similar to grasslands.
- Sites with monocultures of *Phragmites* or *Typha* are allowed if there are still native species present in the mix and have >20% cover. These areas are typically not directly affected by anthropogenic degradation, but rather indirectly. However, these sites may require field assessment to decide whether they were formerly plowed or planted sites to decide if they qualify.
- Temporarily or lightly grazed wetlands where native vegetation is still dominant and tussock forming sedges have not been destroyed.

Sites that will not be considered include:

- Currently (or formerly) cultivated, or frequently hayed.
- Sites being grazed during the sampling season.
- Artificially constructed wetlands.
- Sites in ditches or immediately adjacent to one.
- Artificially constructed wetlands.

- Areas within or adjacent to impoundments, where there is very little terrestrial vegetation present and water fluctuations are high.
- Areas too narrow or small to accommodate transect length (stream channels, small basin).
- Aquatic systems or permanent, deep-water habitats where there is > 1-2 ft of perennially standing water and/or there is <30% terrestrial vegetation present and floating, emergent and submerged aquatic vegetation dominates.
- Areas where the majority of the plot is too deep to sample safely, even if temporarily due to flooding. If some team members can effectively walk through deeper water, the rest of the crew should not be placed in an uncomfortable situation if they are not okay with working in this situation.

Wetland Response Design and Data Collection

Similar to the other methods above, vegetation will be surveyed in 1 m² quadrats at regular intervals along transects for a total of 24 quadrats per plot. Sampling will occur along the same three transects as in other habitats. If plot occurs in a wetland basin where vegetation shows a gradient of vegetation zonation according to increasing water depth, then transects will instead be placed perpendicular to this gradient (i.e., perpendicular to topographic contours), emanating from the wetland basin margin nearest the GRTS random point (Figure 28).

In many cases, establishing transects perpendicular to the wetland margin will not be necessary and the transects should be established in the normal east-west pattern to eliminate bias. For example, situations where transects will likely not require adjustments to the transects are wetlands that do not have distinct vegetation zonation from margin to interior, such as a large shrub swamp with mostly homogenous vegetation throughout or large peatlands that are either entirely bogs or fens. In most situations, these decisions about plot configuration are determined prior to field visit, as the wetland size and homogeneity (more or less) can be determined from an aerial photo.

Transects are terminated if they reach open water with less than 30% plant cover, when water becomes too deep to sample safely, or when the opposite end of the wetland is encountered. Transects are placed at least 10 m apart in open habitats (when there are no trees). However, if there is space to accommodate it, semi-forested systems such as forested bogs with stunted black spruce, should have 20 meters distance between transects to allow room for the tree belt transects.

In smaller basins, the transects will be established approximately 5m from the edge of suitable habitat to minimize shrub margins or open water moats along the edge (Figure 28). If a plot cannot be established according to these configurations, then sampling will not be conducted and the next site that meets sampling criteria should be chosen.

See Forested Plot methods for details on data collection. Visual Obstruction Reading and Earthworm Assessment data will not be collected in open wetland systems. Instead, Surface Water Chemistry Data will be recorded at up to four locations within or adjacent to the plot. See information outlined below.

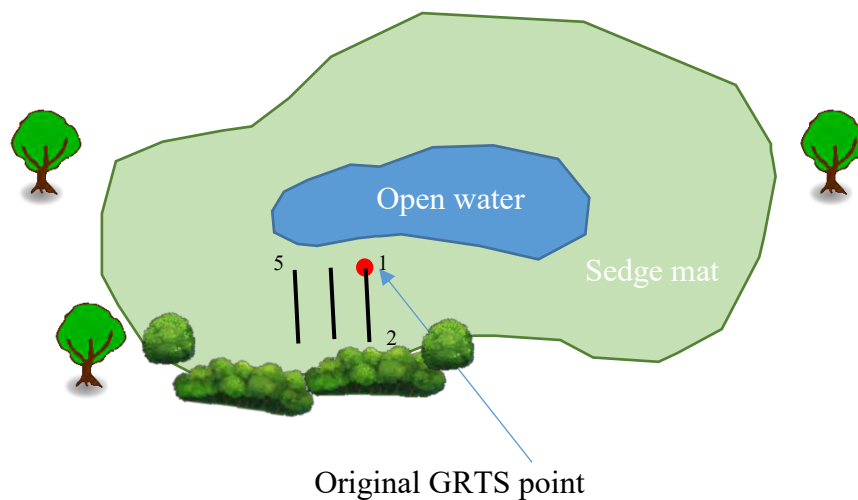


Figure 28. Potential configuration (not to scale) of transects in irregular shaped wetlands with wet meadow vegetation surrounding open water. Transects here are rotated from the typical east-west configuration so that they run perpendicular to the contours of the basin, avoiding distinctly different shrub zone margins, if present, or open water moats or interior pools.

Surface Water Chemistry Sampling

There is generally a close relationship between the chemical composition of the peat and the water filling the pore spaces in the peat, and both have been used to assess chemistry and nutrient gradients. Water chemistry is more subject to the variations of precipitation and drought than is peat water chemistry – the ion concentrations become higher as the amount of water decreases in a dry period. On the other hand there are differences between hummock, lawn, and carpet peat and groundwater is a good integrator to characterize a site as a whole. Peat waters can be sampled from surface waters or pools within the peatland, which are subject to variation with time since last rain, or from a specific depth. Make sure the meter has been calibrated prior to going in the field, according to the multi-probe manual specific to the instrument being used.

Take up to 4 samples throughout the plot in order to capture a variety of measurements and microtopography, if it exists, throughout the plot. For example record data from a pool or peat hollow, from a more contiguous sedge mat lawn, and from an area adjacent to a peat hummock. You will find that the measurement are often slightly different.

1. Put on nitrile gloves, if not already wearing them, to avoid contaminating the water sample with hand oils, lotions or other substances.
2. Record data on pH, conductivity and temperature from at least two and up to four areas within the plot – ideally two sample spots between transect 1 and 2 and two sample spots between 2 and 3. It may be necessary to gently cut through the peat mat with a knife or

push down on the upper surface of peat with a piece of PVC pipe to allow enough water to pool into the surface for sampling. Do this gently as to not stir up a lot of muck and debris in the process and to limit the amount of aeration. Sampling deeper within the upper peat surface using a cylinder with small holes drilled in the bottom (as opposed to only from surface pools) will provide a more accurate reading.

3. Do not sample water that has accumulated in surface hollows or pools. This water is typically closer to neutral, as it often related to a rainfall event and/or has been exposed to ambient temperature and oxygen. Significant variation has been found in pH measurements related to the degree of aeration of samples, time of day, and fine-scale vertical and horizontal gradients in surface pools (Tahvanainen and Tuomaala 2003). Thus, attempt to sample further down within the peat profile.
4. Note if precipitation has occurred within the last 48 hours.

Tree Measurements (if applicable)

If canopy tree species are present that consist of >10% canopy cover, and there are woody species ≥ 2.5 cm DBH present in the plot, establish transects 20 m apart. See forested methods for sampling details. Otherwise, if trees are present, but <10% cover, proceed with belt transects with the transects 10 m apart, measuring trees according to forested methods, see sampling details in that section.

Quadrat Measurements

See Forested Methods.

Direct Browse and Shrub Frequency

See Forested Methods. Despite there being minimal deer browse impacts in wetland areas, data collected on shrubs and other woody species will be used to assess woody species frequency.

Coarse Woody Material (if applicable)

See Forested methods.

Additional Species Walkthrough

See Forested methods.

References

- Bushman, M. M. 2006. Plant species change in Northern Wisconsin wet-mesic forest communities, 1952 vs. 2005. M. S. thesis, University of Wisconsin – Stevens Point.
- Curtis, J. T. 1959. The Vegetation of Wisconsin. University of Wisconsin Press, Madison, WI, USA.
- Faber-Langendoen, D., W. Nichols, J. Rocchio, K. Walz, and J. Lemly. 2016. An Introduction to NatureServe's Ecological Integrity Assessment Method. NatureServe, Arlington, VA. P. 33
- Gitzen, R. A., M. Wilson, J. Brumm, M. Bynum, J. Wrede, J. J. Millspaugh, and K. J. Paintner. 2010. Northern Great Plains Network vital signs monitoring plan. Natural Resource Report NPS/NGPN/NRR—2010/186. National Park Service, Fort Collins, Colorado
- Goslee, S. 2006. Behavior of Vegetation Sampling Methods in the Presence of Spatial Autocorrelation. *Plant Ecology*, Vol. 187, No. 2: 203-212.
- Olden, J. D. and T. P. Rooney. 2006. On defining and quantifying biotic homogenization." *Global Ecology and Biogeography* 15(2): 113-120.
- James, K. M., M. D. DeBacker, G. A. Rowell, J. L. Haack and L. W. Morrison. 2009. Vegetation community monitoring protocol for the Heartland Inventory and Monitoring Network. Natural Resource Report NPS/HTLN/NRR—2009/141. National Park Service, Fort Collins, Colorado.
- Johnson, S. E., E. L. Mudrak, and D. M. Waller. 2006. A comparison of sampling methodologies for long-term forest vegetation monitoring in the Great Lakes Network National Parks. National Park Service, Great Lakes Inventory and Monitoring Network Report: GLKN/2006/3.
- Loss, S., et al. 2013. Earthworm Invasions in Northern Hardwood Forests: a Rapid Assessment Method. *Natural Areas Journal* 33: 21-30.
- Maser, C., R.G. Anderson, K. Cromack Jr., J.T. Williams and R.E. Martin. 1979. Dead and down woody material. In J.W. Thomas (technical editor). *Wildlife habitats in managed forests: the Blue Mountains of Oregon and Washington*. USDA Forest Service Agricultural Handbook No. 553. pp.78-95. Molano-Flores, B. 2002. Critical Trends Assessment Program Monitoring Protocols. Illinois Natural History Survey, office of the Chief, Technical Report 2002-2, Champaign, IL. 38 pp.
- Olden, J.D. and Rooney, T.P. 2006. On defining and quantifying biotic homogenization. *Global Ecology and Biogeography*, 15: 113-120. <https://doi.org/10.1111/j.1466-822X.2006.00214.x>
- Peet, R., Wentworth, T., & White, P. 1998. A Flexible, Multipurpose Method for Recording Vegetation Composition and Structure. *Castanea*, 63(3), 262-274.

- Perles, S., J. Finley, D. Manning, and M. Marshall. 2014. Vegetation and soil monitoring protocol for the Eastern Rivers and Mountains Network, Version 3. Natural Resource Report NPS/ERMN/NRR—2014/758. National Park Service, Fort Collins, Colorado.
- Robel, R. J., et al. 1970. Relationships between Visual Obstruction Measurements and Weight of Grassland Vegetation. *Journal of Range Management* 23(4): 295-297
- Rocchio, F.J. and R.C. Crawford. 2011. Applying NatureServe's Ecological Integrity Assessment Methodology to Washington's Ecological Systems. Natural Heritage Report 2011-10. Washington Natural Heritage Program, Washington Department of Natural Resources. Olympia, Washington
- Rogers, D. A. 2006. Fifty years of change in southern Wisconsin forests: patterns of species loss and homogenization. PhD. University of Wisconsin - Madison, Madison.
- Sanders, S. M. and J. Grochowski. 2014. Forest vegetation monitoring protocol version 2.0: Great Lakes Inventory and Monitoring Network. Natural Resource Report NPS/GLKN/NRR—2014/799. National Park Service, Fort Collins, Colorado.
- Stevens, D. and A. Olsen. 2004. Spatially Balanced Sampling of Natural Resources. *Journal of the American Statistical Association* 99: 262-278.
- Stohlgren, T., M.B. Falkner, and L.D. Schell. 1995. A Modified-Whittaker nested vegetation sampling method. *Plant Ecology* 117(2):113-121.
- Symstad, A. J., R. A. Gitzen, C. L. Wienk, M. R. Bynum, D. J. Swanson, A. D. Thorstenson, and K. J. Paintner-Green. 2012. Plant community composition and structure monitoring protocol for the Northern Great Plains I&M Network: Version 1.01. Natural Resource Report NPS/NRPC/NRR—2012/489. National Park Service, Fort Collins, Colorado.
- Tahvanainen, T. and T. Tuomaala. 2003. The reliability of mire water pH measurements – A standard sampling protocol and implications to ecological theory. *Wetlands* 23(4): 701-708.
- Tierney, G., B. Mitchell, K. Miller, J. Comiskey, A. Kozlowski, and D. Faber-Langendoen. 2009. Long-term forest monitoring protocol: Northeast Temperate Network. Natural Resource Report NPS/NETN/NRR—2009/117. National Park Service, Fort Collins, Colorado.
- Urquhart, N. S., and T. M. Kincaid. 1999. Designs for detecting trend from repeated surveys of ecological resources. *Journal of Agricultural, Biological, and Environmental Statistics* 4(4):404-414.
- U.S. Department of Agriculture (USDA), Forest Service. 2018. Forest inventory and analysis national core field guide Volume 1: Field data collection procedures for phase 2 plots, version 8.0. U.S. Department of Agriculture, Forest Service, Washington Office. Internal report. On file with: U.S. Department of Agriculture, Forest Service, Forest Inventory and Analysis, Rosslyn Plaza, 1620 North Kent Street, Arlington, VA 22209.

Appendix A. Accepted list of complex species groups for the field

Genus	combined species	abbr	Notes
Amelanchier	laevis/interior	laev-int	
Amelanchier	sanguinea/spicata	sang-spic	
Antennaria	neglecta/howellii	neg-how	
Asclepias	speciosa/syriaca	spec-syria	Without flowers, can be difficult
Carex	brevior/bicknellii		Prairies
Carex	gracillima/arctata	grac-arct	Northern forests
Carex	sect. Ovales		
Carex	tetanica/meadii		Ecotones b/w wet and dry prairies
Epilobium	ciliatum/coloratum/glandulosum	cil-col	Wide-leaved
Epilobium	leptophyllum/palustre/strictum	lept-pal	Narrow leaved
Equisetum	laevigatum/hyemale	leav-hym	
Galium	trifidum/tinctorium		
Helianthus	giganteus/grosseserratus/nuttallii	gig-gross-nutt	
Melilotus	alba/officinalis	alba-off	
Packera	aurea/pseudaurea	aurea complx	
Pilea	fontana/pumila	font-pum	
Rosa	acicularis/blanda/woodsii	Rosa complx	
Rubus	allegheniensis/rosa/canadensis, etc.	blackberries	canes are thick and heavy, often 6+ ft. Generally growing upright but tend to lean. Prickles when present have a broad base and a sharp tip shaped like a cat's claw that can easily tear skin.
Rubus	idaeus/occidentalis	raspberries	silvery-colored leaf backs, both occur in southern MN
Rubus	ithacanus/satis/ferrofluviu/steelei, etc.	dewberries	canes can be very long, nearly 10ft, arcing. Tip-rooting defines this group. Prickles tend to be sharp and hard but smaller than highbush blackberries and lacking a broad base. Flower in June.
Rubus	regionalis/semisetosus/uniformis/vermontanus, etc	bristleberries	short canes that stand more or less upright with no tip-rooting, mostly flowering in July, some spp. have prickles like the dewberries, but mostly they are just strong bristles that do not tear skin
Sonchus	arvensis/asper/oleraceus	Sonchus grp	
Viola	heart-leaved group		
Viola	macloskeyi/renifolia	mack-reni	

10:15am Appointment

Item a

July 16, 2024

REQUEST FOR BOARD ACTION

a. Subject: Community Health Supervisor	b. Origination: Public Health
c. Estimated time: 2 mins	d. Presenter(s): Kim Christenson, HR Specialist

e. Board action requested:

Approve the ranking of the Community Health Supervisor.

Resolution #__ - 07/16/24

Community Health Supervisor Evaluation

WHEREAS the Board did by Resolution #15-05/07/24 refer the position of Community Health Supervisor to the pay plan consultant for review, and

WHEREAS, the pay consultant returned with a recommendation of grade 15, and

BE IT RESOLVED to accept the following ranking for the “Community Health Supervisor” position, which results in Pay Grade 15.

f. Background:

The job description for this position was approved in May 2024 to be sent to the Pay Consultant for pointing.

The score was received back from the pay consultant in June 2024. The approval for the ranking was never taken to the board for final approval.

We are now asking for final approval of the position ranking. The position was approved for posting at the July 2 board meeting.

Supporting Documents: None **Attached:** ☒

Date Received in County Coordinator's Office:	N/A
------------------------------------------------------	-----

Coordinators Comments:

Kanabec County Position Description

Community Health Supervisor

Exemption Status: Exempt

Department: Community Health

Date:

Job Specifications		
	FACTOR	LEVEL
Education & Experience qualifications are a job-related combination substantially equivalent to the levels shown at right.	Education/Experience:	A bachelor's degree in administration, public health, community health, communications, nursing, or a closely related field and two (2) years of professional level experience as a public health educator, public health nurse, county or city planning, or a closely related experience in public health or nursing.
	Other Requirements:	Valid driver's license or access to transportation
	Supervision given to:	5.5 Direct FTE's (6 people)
	Supervision received from:	Community Health Director

Job Summary

The Community Health Supervisor is responsible for assisting the Director/CHS Administrator with implementing the required Foundational Public Health Responsibilities that are organized according to the following areas: assessment and surveillance; community partnership development, equity, organizational competencies, policy development & support; accountability & performance management, emergency preparedness & response; and communications.

Protect and promote the health of Kanabec County residents by providing professional public health services, supervision of staff, and administrative oversight that promotes the health for all residents. Planning, developing, implementing, administering, and evaluating programs that promote population health; and coordinating programs with county and community resources.

Promotes individual and population health through the development, implementation and evaluation of health promotion and education initiatives and health behavior – change programs in a variety of settings for the population of Kanabec County.

Some Examples of Essential Duties

30% Supervisory and Professional Duties and Responsibilities

1. Provides leadership and guidance and serves as internal resource to staff ensuring adherence to approved personnel practices and policies and procedures.
2. Assists Director with interviews and hiring recommendations for new staff.
3. Provides orientation and mentoring to new staff.
4. Assists with development of staff training and development plans.
5. Promotes department goals and team building/development.
6. Leads program staff meetings.
7. Oversees and ensures Public Health's preparations for and response to emergencies, events and incidents and assists communities in recovery.
8. Responds 24/7 as needed during a public health emergency. Assumes a leadership role in the Incident Command Structure for Public Health Emergency Preparedness and Response.
9. Fosters a culture of quality improvement throughout the Community Health Department.
10. Assumes a leadership role in the absence of the Director.
11. Promotes a culture of and practice of Quality Improvement for the community health department.
12. Evaluates Team members annually; and provides ongoing supervision of staff through program review and observation.
13. Coordinates and provides input with other administrative staff regarding program coordination.
14. Meets with staff at least monthly to evaluate program needs.
15. Provides day-to-day direction to staff and issues and works to problem solve situations as they arise to assure appropriate response.
16. Identifies and makes recommendations regarding in-service/continuing education needs of staff.
17. Assists staff in problem solving, prioritization of work and overall job performance.
18. Ensures programs are operating within planned budgets and within contracts/guidelines.
19. Prepares reports and analyzes program efficiency and effectiveness.
20. Serves as a resource regarding population health and interprets agency programs and policies to the agency and other community groups.
21. Promotes staff well-being by providing opportunities for growth and creating a positive work culture.
22. Plans, organizes, implements, evaluates, and directs the activities of staff (Health Promotions and Planners) to ensure quality programs are provided to citizens of Kanabec County and programs meet or exceed Standards of Practice and State/Federal rules, regulations, and guideline.
23. Supports and advances organizational development efforts such as developing a high performing organization, employee engagement, workforce development, inclusion and equity, and performance measurement efforts.
24. Collaborate with local organizations, government agencies, and community leaders to assess evolving needs and create tailored strategies.
25. Performs public relations and customer relation activities in representing Public Health to the community, civic organizations, other governmental agencies, and other health professionals.
26. Provides input and assists in the evaluation of agency Programs and policies.
27. Contributes to the planning of agency goals.

28. Attends meetings, seminars, and conferences to keep abreast of changes in policies and procedures related to Program areas.

40% Assessment/Surveillance/Policy Work

29. Participate in or lead a collaborative process resulting in a comprehensive community health assessment and improvement plan.
30. Collect and share data that provide information on conditions of public health importance and on the health status of the population.
31. Analyze public health data, share findings, and use results to improve population health.
32. Use data to recommend and inform public health actions.
33. Address factors that contribute to specific populations' higher health risks and poorer health outcomes
34. Develop and implement a policy or procedure that demonstrates how health equity is incorporated as a goal into the development of programs that serve the community.
35. Assist the Director in conducting and implementing regular department-wide strategic planning.
36. Contributes to and conducts stakeholder assessments to inform prevention work, including community assessments, focus groups, and key informant interviews.
37. Uses public health data to identify health problems and disparities in the community and to guide public health planning, policy, and decision-making.
38. Provides technical assistance within the department to support the performance management system and a culture of continuous improvement.
39. Collaborate with Communications staff as a subject matter expert to develop content for health materials. This may include providing resources, giving feedback on draft content, or developing the initial content.
40. Stay informed about emerging trends, evidence-based practices, and policy changes in the prevention field.
41. Analyze and monitor community risk factors, providing regular reports based on program effectiveness and feedback to develop recommendations that enhance program outcomes and impacts.
42. Serve as a primary and expert resource for establishing and maintaining health policies and laws.
43. Collaborate in the development and implementation of the Kanabec County Community Health Communications plan to promote culturally appropriate evidence-based public health communication strategies across the department and in the community.

30% Grant Writing/Management

44. Assist the Director in applying for grants and contracts and for oversight.
45. Coordinates work with Director; identifies problems and initiates timely, sound responses.
46. Oversee the development and implementation of individual and programmatic work plans that support timely and impactful program outcomes.
47. Develop and manage program work plans, budgets, and reporting, ensuring fiscal monitoring and compliance with funding requirements.

Competencies Common to All County Positions

- Develops, maintains a thorough working knowledge of, and complies with all departmental and applicable County policies and procedures.
- Demonstrates regular and reliable attendance and punctuality.
- Demonstrates by personal example the qualities inherent in public service, excellence, and integrity expected from all staff.
- Develops respectful and cooperative working relationships with co-workers, including willing assistance to newer staff so job responsibilities can be performed with confidence as quickly as possible.
- Confers regularly with and keeps immediate supervisor informed of all important matters which pertain to the applicable job functions and responsibilities.
- Represents Kanabec County in a professional manner to the public, outside contacts, and constituencies.

The duties listed above are intended only as illustrations of the various types of work that may be performed. The omission of specific statements of duties does not exclude them from the position if the work is similar, related or a logical assignment of the position.

The job description does not constitute an employment agreement between the employer and employee and is subject to change by the employer as the needs of the employer and requirements of the job change.

The County is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the County will provide reasonable accommodations to qualified individuals with disabilities and encourages both prospective and current employees to discuss potential accommodations with the employer.

Position: Community Health Supervisor

Department: Community Health

Supplement – Physical Effort & Working Conditions

INDICATE FREQUENCY (HOW OFTEN), WHAT THE REASON FOR THE ACTIVITY IS AND ANY LIMITATIONS ON FREQUENCY, WEIGHT, HEIGHT, ETC.

Frequency	Letter Code	Defined as
Never	N	
Seldom	S	Up to 1 hour per day
Occasionally	O	1 to 2 hours per day
Frequently	F	2 to 5 hours per day
Continuously	C	6 or more hours per day

PHYSICAL EFFORT FREQUENCY DESCRIPTION, REASON FOR, LIMITS

Stand	F	2 hours
Sit	F	4 hours
Walk	F	2 hours
Bend/Twist	O	
Push	O	
Pull	O	
Climb (stairs, ladders)	O	
Reach	F	
Lift	O	Up to 30 lbs
Carry	O	Up to 30 lbs
Grasp/Grip	F	
Repetitive Motions	F	
Kneel/Crawl	O	
Run	S	
Jump	S	
Rapid work speed	O	
Filing	O	
Finger movement	F	
Keyboard use	F	
Close vision	C	

Color vision	C	
Depth perception	C	
Far vision	C	
Hear	C	
Talk	C	
Smell	F	
Touch	S	
Other:	C	Frequent use of hands at all heights from ankle to overhead height

WORKING CONDITIONS/

EXPOSURES FREQUENCY DESCRIPTION, REASON FOR, LIMITS

Heat	O	
Cold	O	
Temperature changes	O	
Dampness	O	
Humidity	O	
Wet environment	O	
Work outdoors	O	
Noise	F	
Vibration	S	
Heights	S	
Confined spaces	O	
Moving objects	O	
Solvents	S	
Acids, corrosives	S	
Other chemicals	S	
Dust	O	
Dirt	O	
Fumes/Vapors/Mists	S	
Gases	S	
Office environment	C	

Travel	O	To meetings/trainings throughout community – weekly/several times a week, regionally – 2-4/year, state – 2-4/year
Work alone	O	
Work with co-workers	C	
Work with public	C	
Other:		

SAFETY EQUIPMENT

What safety equipment is required? Personal Protective Equipment as provided for situation (mask, gloves, other barrier protections)

Where and when must it be used? In response of a Public Health emergency

10:15am Appointment

Item b

July 16, 2024

REQUEST FOR BOARD ACTION

a. Subject: Community Health Planner/ Communications Coordinator	b. Origination: Public Health
c. Estimated time: 2 mins	d. Presenter(s): Kim Christenson, HR Specialist

e. Board action requested:

Approve the ranking of the Community Health Planner/ Communications Coordinator.

Resolution #__ - 07/16/24

Community Health Planner/ Communications Coordinator Evaluation

WHEREAS the Board did by Resolution #15-05/07/24 refer the position of Community Health Planner/ Communications Coordinator to the pay plan consultant for review, and

WHEREAS, the pay consultant returned with a recommendation of grade 12, and

BE IT RESOLVED to accept the following ranking for the “Community Health Planner/ Communications Coordinator” position, which results in Pay Grade 12.

f. Background:

The job description for this position was approved in May 2024 to be sent to the Pay Consultant for pointing.

The score was received back from the pay consultant in June 2024. The approval for the ranking was never taken to the board for final approval.

We are now asking for final approval of the position ranking. The position was approved for posting at the July 2 board meeting.

Supporting Documents: None **Attached:** ☒

Date Received in County Coordinator’s Office:	N/A
------------------------------------------------------	-----

Coordinators Comments:

Kanabec County Position Description

Community Health Planner/Communications Coordinator

Exemption Status: Exempt **Department:** Community Health **Board Approval:**

Job Specifications		
Education & Experience qualifications are a job-related combination substantially equivalent to the levels shown at right.	FACTOR	LEVEL
	Education/Experience:	A bachelor's degree in public health, health education, planning, communications, journalism, public relations, or closely related field Master's degree preferred.
	Experience:	Five years related experience
	Other Requirements:	<ul style="list-style-type: none">• Community Organizing experience a plus• Two years of communications experience, preferably in public health, government, or nonprofit field.• Must have demonstrated writing and research skills with a focus on detail-oriented work. Driver's license or access to transportation
	Supervision given to:	None
	Supervision received from:	Department Director or designee

Job Summary

Under the supervision of the Director or his/her designee, this position will be responsible for providing health communications and outreach expertise. This position will be responsible for developing and distributing clearly written, well-designed health communications materials for public health in a variety of formats, including: web-based content, infographics, social media posts, print media, radio content, and professional communications such as educational materials. To provide assessment, planning and evaluation, grant development support around environmental health, clinical and health promotion programs; and coordinating programs with county and community resources. Build community support of the Public Health Agency and its strategies for improving health through engagement and outreach activities.

Some Examples of Essential Duties

50% Communications and Community Engagement

1. Engage the public health system and the community in identifying and addressing health problems through an ongoing, collaborative process.

2. Develop strategic outreach and communication plans to coordinate community engagement opportunities.
3. Provide professional communication, training, and technical support to Kanabec County Community Health.
4. Plan, develop, implement, and evaluate public health messages, communications strategies, and communication campaigns that align with core public health goals.
5. Provide outreach and communications expertise in the development and implementation of printed and online publications, websites, social media, presentations, and collateral materials (ex: brochures, pamphlets, posters, handouts, etc.).
6. Partners with organizations and online partners to develop effective and cost-efficient opportunities for message planning, research, message development and message delivery.
7. Assist in creating community-based coalitions and partnerships by engaging various sectors of the community and linking them with local public health efforts.
8. Identify potential new relationships that would grow the capacity of public health work in the community. Participate actively in community health coalitions.
9. Engage with community members to address public health issues and promote health.
10. Identify gaps in communications, develop/recommend strategies, implement solutions, and present results to administration.
11. Develops written reports, memos, newsletters, and presentations for the various programs/units.
12. Maintain and implement a risk communication plan for communicating with the public during a public health crisis or emergency.
13. Use health communication strategies to support prevention, health, and well-being.
14. Communicate what public health is, what the health department does, and why it matters.
15. Provide information on public health issues and public health functions through multiple methods to a variety of audiences.
16. Provides direct education and public speaking as appropriate.
17. Prepare for and respond to Public Health emergencies as directed.

50% Health Assessment/Planning/Grant Management

18. Conduct and disseminate assessments on population health status and public health issues facing the community.
19. Collect, analyze, and use public health data to develop recommendations regarding public health policy, processes, programs, and interventions.
20. Assist in collecting and sharing data that provide information on conditions of public health importance and on the health status of the population.
21. Contributes to and conducts stakeholder assessments to inform prevention work, including community assessments, focus groups, and key informant interviews.
22. Uses public health data to identify health problems and disparities in the community and to guide public health planning, policy, and decision-making.
23. Promote understanding of and support for policies and strategies that improve the public's health.
24. Assists in the development and implementation of the community health improvement plan, the agency strategic plan and quality improvement process consistent with the Minnesota Department of Health community assessment and planning process.
25. Research, write and submit grant applications.

26. Manages assigned Health Promotion grants and ensures that programs are coordinated within the department and with other community partners.
27. Ensures that assigned programs are operating within planned budgets.
28. Manages program records by maintaining accurate and complete documentation according to Standards of Practice and State/Federal/Grant rules, regulations, and guidelines.
29. Prepares reports and analyzes program efficiency and effectiveness.
30. Research other programs and applies knowledge to health needs in Kanabec County.
31. Utilize strategic prevention framework to develop and evaluate plans, organize, and implement programs and ensure programs meet or exceed Standards of Practice and State/Federal rules, regulations, and guidelines. Process includes developing logic models, action plans, measurable outcomes, and evaluation methods.
32. Works in partnership with Health Educators to evaluate program needs and issues.
33. Participates in risk management, evaluation, and other quality assurance activities as determined by Supervisor.
34. Develop, gather, and assure agency documentation meets standards and measures of the Public Health Accreditation Board (if applying for accreditation).
35. Attends meetings, seminars, and conferences to keep abreast of changes in policies, procedures, and trends of public health.
36. Represents the agency in contacts with other agencies and the community.
37. Understands and utilizes Public Health and the Public Health philosophy and knowledge.

Competencies Common to All County Positions

- Develops, maintains a thorough working knowledge of, and complies with all departmental and applicable County policies and procedures.
- Demonstrates regular and reliable attendance and punctuality.
- Demonstrates by personal example the qualities inherent in public service, excellence, and integrity expected from all staff.
- Develops respectful and cooperative working relationships with co-workers, including willing assistance to newer staff so job responsibilities can be performed with confidence as quickly as possible.
- Confers regularly with and keeps immediate supervisor informed of all important matters which pertain to the applicable job functions and responsibilities.
- Represents Kanabec County in a professional manner to the public, outside contacts, and constituencies.

Position: Community Health Planner/Communications Coordinator Department: Community Health

Supplement – Physical Effort & Working Conditions

INDICATE FREQUENCY (HOW OFTEN), WHAT THE REASON FOR THE ACTIVITY IS AND ANY LIMITATIONS ON FREQUENCY, WEIGHT, HEIGHT, ETC.

Frequency	Letter Code	Defined as
Never	N	
Seldom	S	Up to 1 hour per day
Occasionally	O	1 to 2 hours per day
Frequently	F	2 to 5 hours per day
Continuously	C	6 or more hours per day

PHYSICAL EFFORT FREQUENCY DESCRIPTION, REASON FOR, LIMITS

Stand	F	
Sit	F	
Walk	F	
Bend/Twist	O	
Push	O	
Pull	O	
Climb (stairs, ladders)	O	
Reach	F	
Lift	O	
Carry	O	Up to 50 lbs
Grasp/Grip	F	
Repetitive Motions	F	
Kneel/Crawl	O	
Run	S	
Jump	S	
Rapid work speed	O	
Filing	O	
Finger movement	F	
Keyboard use	F	
Close vision	C	

Color vision	C	
Depth perception	C	
Far vision	C	
Hear	C	
Talk	C	
Smell	F	
Touch	S	
Other:		

WORKING CONDITIONS/

EXPOSURES FREQUENCY DESCRIPTION, REASON FOR, LIMITS

Heat	O	
Cold	O	
Temperature changes	O	
Dampness	O	
Humidity	O	
Wet environment	O	
Work outdoors	O	
Noise	F	
Vibration	S	
Heights	S	
Confined spaces	O	
Moving objects	O	
Solvents	S	
Acids, corrosives	S	
Other chemicals	S	
Dust	O	
Dirt	O	
Fumes/Vapors/Mists	S	
Gases	S	
Office environment	C	

Travel	O	To meetings/trainings throughout community – weekly/several times a week, regionally – 2-4/year, state – 2-4/year
Work alone	O	
Work with co-workers	C	
Work with public	C	
Other:		

SAFETY EQUIPMENT

What safety equipment is required? Personal Protective Equipment as provided for situation (mask, gloves, other barrier protections)

Where and when must it be used? In response of a Public Health emergency

10:20am Appointment

July 16, 2024

REQUEST FOR BOARD ACTION

a. Subject: House Demolition/Moving Bids	b. Origination: Public Works
c. Estimated time: 5 minutes	d. Presenter(s): Chad Gramentz, Public Works Director

e. Board action requested:

Possible house bid results.

f. Background:

Supporting Documents: None ☒

Attached:

Date received in County Coordinators Office:

Coordinators Comments:

Agenda Item #1a

PROCEEDINGS OF THE COUNTY BOARD

State of Minnesota
County of Kanabec
Office of the County Coordinator

UNAPPROVED MINUTES

July 2, 2024

The Kanabec County Board of Commissioners met at 9:00am on Tuesday, July 2, 2024 pursuant to adjournment with the following Board Members present: Rick Mattson, Tom Roeschlein, Wendy Caswell, Alison Holland and Peter Ripka. Others Present: Board Clerk Kris McNally, County Attorney Barbara McFadden (via WebEx) and Recording Secretary Kelsey Schiferli.

The meeting was held in the County Board Room and via WebEx for anyone wishing to attend virtually.

The Chairperson called the meeting to order at 9:00am and led the assembly in the Pledge of Allegiance.

Action #1 – It was moved by Peter Ripka, seconded by Tom Roeschlein and carried unanimously to approve the agenda with the addition of Late Entry: Mora HRA – Mysa House II Funding Request Resolution.

Action #2 – It was moved by Alison Holland, seconded by Tom Roeschlein and carried unanimously to approve the June 18, 2024 minutes as presented.

Action #3 – It was moved by Peter Ripka, seconded by Wendy Caswell and carried unanimously to approve the following paid claims:

<u>Vendor</u>	<u>Amount</u>
AT&T Mobility	1,549.63
Bruce, Mike	265.00
Card Services (Coborn's)	8.28
Card Services (Coborn's)	694.63
Card Services (Coborn's)	233.47
Cigna Health & Life Insurance Company	774.46
City of Mora	21,180.57
Dearborn National Life Insurance	499.21
East Central Energy	1,644.94
Marco Inc	5,118.24
MetLife	6,637.59

Minnesota Energy Resources Corp	3,247.89
Office of MN.IT Services	1,338.65
Pierson, Kathryn	265.00
Quadient Leasing USA, Inc.	2,086.20
The Hartford Priority Accounts	6,570.01
VSP Insurance Co	630.30
Weaver, Heath	500.00

18 Claims Totaling: \$ 53,244.07

9:02am – The Chairperson called for public comment three times. None responded

9:04am – The Chairperson closed public comment.

Action #4 – It was moved by Alison Holland, seconded by Peter Ripka and carried unanimously to approve the following claims on the Revenue Fund:

<u>Vendor</u>	<u>Amount</u>
Ace Hardware	15.18
Ace Hardware	73.86
Ace Hardware	6.99
Amazon Capital Services	19.25
Amazon Capital Services	192.22
Amazon Capital Services	120.01
Amazon Capital Services	76.77
Amazon Capital Services	297.50
American DataBank	282.35
Barlow, Jeffery	930.63
Baycom	8,841.00
Bee Line Service Center, Inc.	1,028.22
BlueStar Graphics	65.00
Bob Barker	423.10
Bracewell, Earl	89.07
Brrr Equipment Service	250.00
Curtis, Michael	690.77
East Central Regional Library	88,652.50
Ernest, Jennifer	93.76
Garcia, Brenda	213.06
Grainger	245.04
Hildi Inc	3,500.00
Hoefert, Robert	830.80
Holcomb, Lisa	95.10
J.J. Keller & Associates	611.88
Kanabec County Ag Society	4,500.00

Kanabec County History Center	6,000.00
Kanabec Publications	33.47
Kellum, Kendra	309.54
Mattson, Jean	75.00
MCCC, Mi33	394.75
Michael Keller, Ph.D., L.P.	650.00
Mid-American Research Chemical	714.57
Minnesota Monitoring, Inc.	720.00
Morris Electronics	4,233.75
MRA	277.50
Munsterteiger, Adam	75.00
North Central Bus & Equipment	257.50
Northland Fire Protection	731.95
O'Brien, Pat	93.09
Ogilvie Museum	1,500.00
Olson, Rhonda	85.72
Osthus, Marlin	2,986.22
Paulson, Stephanie	110.51
PeerPlace Networks LLC	1,500.00
Ratwik, Roszak & Maloney, PA	3,568.00
RELX Inc. DBA LexisNexis	220.00
RELX Inc. DBA LexisNexis	238.70
REVIZE LLC	1,900.00
Ripka, Peter	75.00
Sabinash, Douglas	87.06
Schiferli, Kelsey	97.11
Segelstrom, Chad	618.47
Snyder, Denise	95.14
Stellar Services	444.97
Summit Food Service Management	4,067.71
Summit Food Service Management	4,069.86
Sunshine Printing	141.50
SwipeClock LLC	300.00
Van Alst, Lillian	1,339.33
Wellness in the Woods	1,094.32
Young, Kathy	129.34
Zaudtke, Wayne	79.02

63 Claims Totaling: \$ 151,458.16

Action #5 – It was moved by Peter Ripka, seconded by Wendy Caswell and carried unanimously to approve the following claims on the Road & Bridge Fund:

Vendor

Amount

Amazon Capital Services	111.96
Auto Value	2,870.29
B & F Fastener Supply	391.15
Gary Campbell	1,400.00
Central McGowan, Inc.	161.44
Federated Co-ops, Inc.	175.88
Gilbert & Roxann Helmbrecht	3,634.54
Charles Hippen-Koch	35.36
North Central International	457.36
Pomp's Tire Service, Inc.	714.36
Trueman Welters	368.00
USIC Locating Services	470.00
Vestis Group	756.34
Waircom, Inc.	675.30

14 Claims Totaling: \$ 12,221.98

On behalf of the Mora HRA, County Coordinator Kris McNally presented a resolution to allocate \$48,130 of the Statewide Affordable Housing Aid to support the Mysa House II Project.

Action #6 – It was moved by Tom Roeschlein, seconded by Alison Holland and carried unanimously to approve the following resolution:

Resolution #6 - 7/2/24

Resolution Committing Statewide Affordable Housing Aid Funds to the Mysa House II Senior Housing Project

WHEREAS, the Kanabec County Board of Commissioners is committed to promoting the development of affordable housing within Kanabec County; and

WHEREAS, the State of Minnesota allocated funds through the Statewide Affordable Housing Aid program to support such efforts; and

WHEREAS, the Mora Housing and Rehabilitation Authority (HRA) has proposed the development of a twenty-four-unit senior housing project located on Valhalla Circle in Mora; and

WHEREAS, the proposed project will provide safe and affordable housing for low-income seniors, with seven units reserved for those earning at or below 30% of Area Median Income (AMI) and the remaining seventeen units for those earning at or below 50% AMI as determined by the U.S. Department of Housing and Urban Development (HUD); and

WHEREAS, the Mora HRA has demonstrated a need for financial support to strengthen their position in the funding application for the project; and

WHEREAS, the Kanabec County Board of Commissioners has reviewed the project proposal and determined that it meets the eligibility requirements for utilizing Statewide Affordable Housing Aid funds;

NOW, THEREFORE, BE IT RESOLVED that the Kanabec County Board of Commissioners hereby approves the commitment of \$48,130 in Statewide Affordable Housing Aid funds to support the development of the Mysa House II project.

County Coordinator Kris McNally led a discussion regarding dates and funding for an employee appreciation lunch. The Board directed staff to investigate whether there are any prohibitions to budgeting to fund the event or for Commissioners and department heads to contribute funds to the event. September 19th is the tentative date for the event.

Action #7 – It was moved by Tom Roeschlein, seconded by Peter Ripka and carried unanimously to recess the meeting at 9:16am to a time immediately following the Community Health Board.

The Kanabec County Community Health Board met at 9:16am on Tuesday, July 2, 2024 pursuant to adjournment with the following Board Members present: Tom Roeschlein, Rick Mattson, Wendy Caswell, Alison Holland and Peter Ripka. Community Health Director Kathy Burski presented the Community Health Board Agenda.

Action #CH8 – It was moved by Alison Holland, seconded by Peter Ripka and carried unanimously to approve the Community Health Board Agenda as presented.

East Central Regional Suicide Prevention Coordinator Brianne McClellan met with the Board to an update regarding her position and work completed in the region. Information only, no action was taken.

Community Health Director Kathy Burski gave the Director's Report.

Action #CH9 – It was moved by Wendy Caswell, seconded by Tom Roeschlein and carried unanimously to approve the following resolution:

Resolution #CH9 – 7/2/24

SCHA Delegation Agreement Fourth Amendment Resolution

WHEREAS, County of Kanabec through its Health and Human Services agencies is contracted with South Country Health Alliance to provide services to its members, and

WHEREAS, South Country Health Alliance and Kanabec County agree to amend Exhibit D of the Delegation Agreement dated January 1, 2020 by deleting it and all previous versions in its entirety and replacing it with Exhibit D as amended January 1, 2024, and

WHEREAS, this amendment reflects changes in rates for the Community Care Connector / Case Aide positions, and

THEREFORE, the Community Health Director is requesting permission to sign the amendment, and

THEREFORE BE IT RESOLVED that the Kanabec County Community Health Board approves the Amendment to the South Country Health Alliance Delegation Agreement dated January 1, 2020 effective January 1, 2024.

Action #CH10 – It was moved by Alison Holland, seconded by Peter Ripka and carried unanimously to approve the following resolution:

Resolution #CH10 – 7/2/24

Request for Public Health Supervisor and Public Health Planner / Communications Coordinator positions

WHEREAS, Kanabec County Community Health has been awarded \$188,716 in ongoing funding to increase the local agency’s capacity to work on foundational capabilities, and

WHEREAS, Kanabec County Community Health staff participated in planning sessions discussing how to meet the vision of the future and has developed the job descriptions for a Public Health Supervisor and a Public Health Planner / Communications Coordinator that will assist in achieving that vision, and

WHEREAS, the positions have been sent to the pay consultant and it has been determined that the cost for the total salary and fringe for these two positions can be covered with the ongoing funding as well as other grants, and

THEREFORE, the Community Health Director is requesting to advertise and hire for these two positions; the Public Health Supervisor as an internal posting and the Public Health Planner / Communications Coordinator as an external posting, and

THEREFORE BE IT RESOLVED that the Kanabec County Community Health Board approves the Community Health Director and Human Resources Director to advertise and hire for these two positions.

Action #CH11 – It was moved by Alison Holland, seconded by Peter Ripka and carried unanimously to approve the following resolution:

Resolution #CH11 – 7/2/24

Request to Hire Home Health Aide at Higher Pay Rate

WHEREAS, Kanabec County Community Health has offered the position of part-time intermittent Home Health Aide to an individual who has worked as a Home Health Aide for us in the past, and

WHEREAS, the individual has requested to be hired at a higher pay rate due to their previous experience with Kanabec County, and

WHEREAS, the higher pay rate for this individual would be within the Kanabec County Community Health budget, and

THEREFORE, the Community Health Director is requesting to hire the Home Health Aide candidate at Step B (\$18.02), and

THEREFORE BE IT RESOLVED that the Kanabec County Community Health Board approves the Community Health Director and Human Resources Director to offer the higher pay rate to the Home Health Aide candidate.

Action #CH12 – It was moved by Tom Roeschlein, seconded by Peter Ripka and carried unanimously to approve the following resolution:

Resolution #CH12 – 7/2/24

Request to Hire Certified Public Health Nurse at Higher Pay Rate

WHEREAS, Kanabec County Community Health has had a certified Public Health Nurse (PHN) position posted for over 30 days, and

WHEREAS, only one qualified application was received, and

WHEREAS, an interview was held and an offer has been made and subsequently a request was made to be hired at a level closer to her current wage and reflective of her experience, and

THEREFORE, the Community Health Director is requesting to hire a Public Health Nurse at grade 15 level C, or \$35.38 per hour, and

THEREFORE BE IT RESOLVED the Kanabec County Community Health Board approves the Community Health Director and Human Resources Director to hire a certified Public Health Nurse at a grade 15 level C, which is \$35.38 per hour, compared to grade 15 level A, which is \$32.91 for 2024.

Action #CH13 – It was moved by Alison Holland, seconded by Tom Roeschlein and carried unanimously to approve the following resolution:

Resolution #CH13 – 7/2/24

Timber Trails 2025 Agreement

WHEREAS, Kanabec County has resolved to apply for the 2025 Transit Operating Grant and enter into an Agreement with the State of Minnesota to provide public transit service, and

WHEREAS, Kanabec County agrees to provide a local share of up to 15 percent of the total operating cost and up to 20 percent of the total capital costs, and

WHEREAS, Kanabec County agrees to provide 100 percent of the local share necessary for expenses that exceed funds available from the State, and

THEREFORE, the Community Health Director is requesting permission to sign the 2025 agreement, and

THEREFORE BE IT RESOLVED that Kanabec County authorizes the Director of Kanabec County Community Health or the Transit Director to execute the Agreement and any Amendments.

Action #CH14 – It was moved by Tom Roeschlein, seconded by Alison Holland and carried unanimously to approve the payment of 80 claims totaling \$33,614.99 on Community Health Funds.

Action #CH15 – It was moved by Alison Holland, seconded by Peter Ripka and carried unanimously to adjourn Community Health Board at 9:38am. The Community Health Board will meet again on Tuesday, August 6, 2024 at 9:20am.

The Board of Commissioners reconvened.

Community Health Director Kathy Burski met with the Board to present a recommendation from the Opioid Settlement Committee for funding.

Action #16 – It was moved by Peter Ripka, seconded by Wendy Caswell and carried unanimously to approve the following resolution:

Resolution #16 – 7/2/24

Opioid Settlement Committee Recommendation for Funding Resolution

WHEREAS, the Opioid Settlement Committee is recommending to approve Mora and Ogilvie Public Schools request to help support the School Resource Officer position for the 2024-2025 school year, and

WHEREAS, the School Resource Officer improves the connection with students and families, is actively involved in the DARE education program and works with students/families needing extra support with attendance or other risky behavior, and

WHEREAS, the total cost of the School Resource Officer position would be shared by the Kanabec County Sheriff's Office, both school districts, and opioid settlement dollars, and

THEREFORE BE IT RESOLVED the Kanabec County Board of Commissioners approves the Opioid Settlement Committee's request to approve funding for Mora and Ogilvie

Public Schools to help support the School Resource Officer not to exceed \$20,000.00 for the 2024-2025 school year.

Watershed Coordinator Deanna Pomije met with the Board to give an update regarding the Snake River Watershed Partnership project. Information only, no action was taken.

Environmental Services Supervisor Ryan Carda met with the Board to discuss the dissolution of the Snake River Watershed Management Board (SRWMB). Information only, no action was taken.

Ryan Carda presented an Interim Use Permit (IUP) for Vacation Rental at 534 Fish Lake Drive, Mora.

Action #17 – It was moved by Tom Roeschlein, seconded by Alison Holland and carried unanimously to approve the Interim Use Permit application for the vacation rental by Brian & Trisha Bengston at 534 Fish Lake Drive, Mora per the Planning Commission’s recommendation.

Ryan Carda presented information regarding vacation rental properties in Kanabec County. Information only, no action was taken.

Court Services Director Lucas Athey met with the Board to give a department update. Information only, no action was taken.

Public Works Director Chad Gramentz met with the Board to discuss matters concerning his department.

Action #18 – It was moved by Tom Roeschlein, seconded by Alison Holland and carried unanimously to approve the following resolution:

Resolution #18 – 7/2/24

CSAH 27 Microsurfacing

WHEREAS the following quotes were received for microsurfacing on CSAH 27 from TH 65 to Hersey Ave:

ASTECH	\$67,965.44
Fahrner	\$50,470.00

THEREFORE, BE IT RESOLVED, to accept the low quote of \$50,470.00 By Farhner Asphalt for microsurfacing on CSAH 27 from TH65 to Hersey Ave, and

BE IT FURTHER RESOLVED to authorize the Board Chair and Coordinator to sign the contract.

Public Works Director Chad Gramentz led a discussion regarding a Right-of-Way counteroffer.

Action #19 –Peter Ripka introduced a motion to approve the counter-offer from Roger Helmbrecht for Right-of-Way Acquisition in the amount of \$6,961.27. The motion was seconded by Wendy Caswell and upon a vote being taken thereon, the following voted:

IN FAVOR THEREOF: Peter Ripka, Alison Holland, Wendy Caswell, Rick Mattson
OPPOSED: None
ABSTAIN: Tom Roeschlein

whereupon the motion passed.

Public Works Director Chad Gramentz gave an update regarding the State Highway project detour. Information only, no action was taken.

10:45am – The Board took a five minute break.

10:50am – The Board reconvened.

The Commissioners gave reports regarding the board and committees in which they participate. Information only, no action was taken.

County Coordinator Kris McNally discussed an 8am start time for the upcoming budget work sessions, for which Board consensus was affirmative. Staff also followed up previous discussion by inquiring about holding an employee appreciation lunch this year with department heads bringing items potluck style and discussing budgeting the event for next year, for which Board consensus was also affirmative.

Future Agenda Items: None

Action #20 – It was moved by Peter Ripka, seconded by Alison Holland and carried unanimously to close the meeting at 11:07am pursuant to the Open Meeting Law, MN Statute §13D.05d subd 3.d. to discuss matters related to Security Issues – Public Services Building & Courthouse Infrastructure. Those present during the closed portion of the meeting were Commissioners Rick Mattson, Tom Roeschlein, Wendy Caswell, Alison Holland and Peter Ripka; as well as County Coordinator & Personnel Director Kris McNally, Public Works Director Chad Gramentz and Building Maintenance Supervisor Dave Mulvaney.

Action #21 – It was moved by Alison Holland, seconded by Wendy Caswell, and carried unanimously at 11:30am to end the closed session for security issues and move into a closed session pursuant to MN Statute §13D.03 to discuss matters related to Labor Negotiation Strategy. Those present during the closed portion of the meeting were Commissioners Rick Mattson, Tom Roeschlein, Wendy Caswell, Alison Holland and Peter Ripka; as well as County Coordinator & Personnel Director Kris McNally and HR Specialist Kim Christenson.

Action #22 – It was moved by Alison Holland, seconded by Wendy Caswell, and carried unanimously to return to open session at 12:01pm.

Action #23 – It was moved by Alison Holland, seconded by Peter Ripka, and carried unanimously to adjourn the meeting at 12:02pm. The Kanabec County Board of Commissioners will meet again for a special meeting on Thursday, July 11, 2024 at 6:00pm; and in regular session on Tuesday, July 16, 2024 at 9:00am.

Signed _____
Chairperson of the Kanabec County Board of Commissioners,
Kanabec County, Minnesota

Attest: _____
Board Clerk

DRAFT

Agenda Item #1b

PROCEEDINGS OF THE COUNTY BOARD

State of Minnesota
County of Kanabec
Office of the County Coordinator

UNAPPROVED MINUTES

July 11, 2024

The Kanabec County Board of Commissioners met at 6:00pm on Thursday, July 11, 2024 pursuant to adjournment with the following Board Members present: Rick Mattson, Tom Roeschlein, Wendy Caswell, Alison Holland and Peter Ripka. Others Present: Auditor/Treasurer Denise Snyder, Board Clerk Kris McNally, Environmental Services Supervisor Ryan Carda, Community Health Director Kathy Burski, Sheriff Brian Smith, Community Health Planner/Regional Prevention Coordinator Patti Hamilton-Smith, and Health Promotion Coordinator Allison Krueger.

The meeting was held in the Kanabec County Jail Training Facility.

The Chairperson called the meeting to order at 6:00pm and led the assembly in the Pledge of Allegiance.

Action #1 – It was moved by Tom Roeschlein, seconded by Alison Holland and carried unanimously to approve the agenda.

Liz Viera, Attorney at Squires, Waldspurger & Mace P.A. conducted a presentation on Local Cannabis Regulation, followed by a question-and-answer session with the audience.

Action #2 – Chair Mattson adjourned the meeting at 7:15pm. The Kanabec County Board of Commissioners will meet again in regular session on Tuesday, July 16, 2024 at 9:00am.

Signed _____

Chairperson of the Kanabec County Board of Commissioners,
Kanabec County, Minnesota

Attest: _____
Board Clerk

Agenda Item #2

Paid Bills

<u>Vendor</u>	<u>Amount</u>	<u>Purpose</u>	<u>Dept</u>
Card Services (Coborn's)	413.90	BADGES/Gift Cards	Sheriff
City of Mora	283.49	TTPT Utilities	Transit
Kanabec County Auditor HRA	20,400.00	VEBA Deposits, TR, KM, MS	HR
Karpel Solutions	8,674.35	PbK Case Mgmt Software Contract	Attorney
Minnesota Dept of Finance	4,623.50	State Fees & Surcharges June 2024	Recorder
East Central Energy	331.16	Intersection Lighting	Highway
Minnesota Department of Finance	28.50	2Q24 RE Assurance/Torrens	State Revenue Fund
Minnesota Department of Health	850.00	2Q24 Well Cert Fees	State Revenue Fund
Pouliot, Krysta	26.00	2024 MH Prepay Refund	Taxes & Penalties Fund
Meyer, Kody	88.00	2024 MH Prepay Refund	Prepaid Tax Fund
AT&T Mobility	1,542.91	Monthly Service	Sheriff
Kanabec County Treasurer Blaze	2,608.95	See Below	
Kwik Trip Inc	14,421.33	County Gas Credit Cards	Various
Midcontinent Communications	466.83	Utilities	Various
Office of MN.IT Services	1,338.65	WAN Services	IS
Quadient Finance USA, Inc.	219.45	Postage Machine Ink	Unallocated
Quality Disposal	1,083.49	Solid Waste Service	Various
VC3, Inc.	7,943.00	Monthly Service	Various
Verizon Wireless Aircards	1,670.48	Monthly Service	Various
Verizon Wireless Cell Phones	3,633.60	Monthly Service	Various
20 Claims Totaling:	<u><u>\$ 70,647.59</u></u>		
 Kanabec County Treasurer Blaze	 102.75	 Suffolk County - Juv Safety & PI	 Court Administration
	119.85	Column Public Notice - Summons	Court Administration
	305.00	MN State Barr Assn - Dues BM	Attorney

(305.00)	MN State Barr Assn - Dues BM	Attorney
51.57	UPS - RMA Shipping	Recorder
108.12	Holiday Inn - MAAO Seminar, JL	Assessor
684.18	Maddens on Gull - MAAO Conf, JL	Assessor
90.00	MN Supervisors Conf Reg, FG	Community Health
25.60	Availity Subscription	Community Health
90.00	MN Supervisors Conf Reg, AB	Community Health
40.00	SQ Little North Playland GC	Community Health
22.40	Availity Subscription	Community Health
32.00	Availity Subscription	Community Health
522.85	4Imprint - RPC Conf Supplies	Community Health
318.48	Delta Air - Expedi RPC Conf, PS	Community Health
119.00	CAS DataLogger Monitor Subscription	Community Health
59.96	Amazon - Wellness Snack Supplies	Employee Wellness
155.13	Amazon - Wellness Snack Supplies	Employee Wellness
(59.96)	Amazon - Wellness Snack Supplies Refund	Employee Wellness
22.20	Amazon - Wellness Snack Supplies	Employee Wellness
59.82	Amazon - Wellness Snack Supplies	Employee Wellness
45.00	Amazon - Welness Incentives	Employee Wellness
26 Claims Totaling: \$ 2,608.95		

Agenda Item #3

Regular Bills - Revenue Fund

Bills to be approved: 7/16/24

Department Name	Vendor	Amount	Purpose
ASSESSOR	Marco, Inc.	<u>244.79</u> 244.79	Standard Payment for July
AUDITOR	MNCCC Lockbox	<u>394.75</u> 394.75	3Q24 Capital Assets Support 7/1/24-9/30/24
BUILDINGS MAINTENANCE	A&E Cleaning Services	<u>600.00</u> 600.00	Timber Trails Office Cleaning - Transit
COMMISSIONERS	Ripka, Peter	<u>57.09</u> 57.09	Mileage to June County Board Meetings 6/4, 6/17, 6/18
COUNTY ATTORNEY	AXON Enterprise, Inc.	480.00	Evidence Storage
COUNTY ATTORNEY	Terhaar, Cheryl	<u>75.04</u> 555.04	Mileage to MAC Training in St. Cloud
COUNTY CORONER	River Valley Forensic Services, P.A.	<u>250.00</u> 250.00	May 2024 Contract
COUNTY EXTENSION	Amazon Capital Services	<u>76.86</u> 76.86	Manilla Envelopes (300), Postcard Cardstock (1000 Cards)
COUNTY RECORDER	Holcomb, Lisa	732.02	Lodging MCRA Summer Conference at Craguns in Brainerd
COUNTY RECORDER	MNCCC Lockbox	18,060.00	Pictometry - 2024 Flight

COUNTY RECORDER	TRIMIN	6,200.00	Trimin Hosting Annual Contract 4/2/24 - 4/2/25
		24,992.02	
ECONOMIC DEVELOPMENT	Mora Area Chamber of Commerce	500.00	Fired Up at the Tower - 2024 Sponsorship
		500.00	
ELECTIONS	DS Solutions	634.80	DS200 Thermal Tape 20, P2024 Test Deck Creation
ELECTIONS	Sea Change Print Innovations	1,684.43	P2024 Ballots
		2,319.23	
HUMAN RESOURCES	Made of Mora/Promotional Designs	95.90	Employee Recognition Plaques - LB &LN
HUMAN RESOURCES	Minnesota UI	10,830.84	Unemployment Benefits Paid for 2Q24
HUMAN RESOURCES	WEX Health, Inc	440.00	Administrative Fees for June
		11,366.74	
INFORMATION SYSTEMS	Amazon Capital Services	5.99	Office Supplies
INFORMATION SYSTEMS	Amazon Capital Services	5.11	Office Supplies
INFORMATION SYSTEMS	Morris Electronics	312.50	Labor Invoices
		323.60	
PROBATION & JUVENILE PLACEMENT	East Central Regional Juvenile Center	4,957.00	June 2024 Contracted Beds at East Central Juvenile Center
PROBATION & JUVENILE PLACEMENT	Minnesota Monitoring	96.00	Remote Electronic Alcohol Monitoring - June 2024
		5,053.00	
PUBLIC TRANSPORTATION	Ace Hardware	31.67	Shop Supplies
PUBLIC TRANSPORTATION	Amazon Capital Services	90.78	Bus Parts & Office Supplies
PUBLIC TRANSPORTATION	Barlow, Jeffery	635.83	Volunteer Mileage 6/24 - 7/7
PUBLIC TRANSPORTATION	Bee Line Service Center, Inc.	1,023.22	Bus Repairs
PUBLIC TRANSPORTATION	Curtis, Michael	427.79	Volunteer Mileage 6/24 - 7/7
PUBLIC TRANSPORTATION	Glen's Tire	2,907.24	Bus Tires & Repairs
PUBLIC TRANSPORTATION	Granite City Jobbing Company	264.89	Office Supplies
PUBLIC TRANSPORTATION	Hoefert, Robert	1,051.90	Volunteer Mileage 6/24 - 7/7

PUBLIC TRANSPORTATION	Industrial Health Services Network Inc	47.90	Drug Test
PUBLIC TRANSPORTATION	Kanabec Publications	586.00	Advertising
PUBLIC TRANSPORTATION	Lenny's Service	58.00	Bus Parts
PUBLIC TRANSPORTATION	Milaca Chiropractic Center	85.00	DOT Physical, TT
PUBLIC TRANSPORTATION	Premium Watersm Inc.	11.81	Bottled Water Supplies
PUBLIC TRANSPORTATION	Van Alst, Lillian	841.52	Volunteer Mileage 6/24 - 7/7
		8,063.55	
SHERIFF	Ace Hardware	8.04	Keys & Colored Caps (4)
SHERIFF	Arnold, Josh	116.51	Meals Reimbursement 6/26/24
SHERIFF	Data Practices Office	500.00	Law Enforcement Data Workshop 6/26, JS & TM
SHERIFF	Glen's Tire	713.91	Squad Oil Change, New Tires, Flat Repair
SHERIFF	Horizon Towing	241.59	Towing Services, 1 Vehicle
SHERIFF	Mettling, Toni	25.33	Mileage Reimbursement for Training in Pine County
SHERIFF	Obrycki, Chaz	136.95	Uniform/Equipment Reimbursement - Duty Use Pocket Knife
SHERIFF	Stewart, Jessy	25.33	Mileage Reimbursement for Training in Pine County
SHERIFF	Streicher's	120.00	5 Point Star x3, AG, SM, JA
SHERIFF	Tinker & Larson Inc	595.40	Oil Changes and Tire Rotation for Squads
		2,483.06	
SHERIFF - 911 EMERGENCY	IAEMD	55.00	EMD Recertification
SHERIFF - 911 EMERGENCY	Motorola Solutions	2,115.00	Vesta Services, July 2024
		2,170.00	
SHERIFF - DISPATCH	Amazon Capital Services	25.55	Extension Cord, Compressed Gas
		25.55	
SHERIFF - JAIL/DISPATCH	Adam's Pest Control, Inc.	250.00	Prevention Plus
SHERIFF - JAIL/DISPATCH	Advanced Correctional Healthcare	20,692.92	August 2024 On Site Medical, Mental Health, TPA Pool Mgmt
SHERIFF - JAIL/DISPATCH	Advanced Correctional Healthcare	388.87	Nursing Hours Over Contract (6 Hours) 7/5/24
SHERIFF - JAIL/DISPATCH	Amazon Capital Services	10.93	Pens for Jail Nurse
SHERIFF - JAIL/DISPATCH	Amazon Capital Services	31.96	Ear Thermometer Covers, Door Stoppers

SHERIFF - JAIL/DISPATCH	Aspen Mills	20.56	Sgt Name Tag, DH
SHERIFF - JAIL/DISPATCH	Bob Barker	680.00	Gloves (L, XL, 2XL)
SHERIFF - JAIL/DISPATCH	Summit Food Service Management	3,999.84	Inmate Meals 6/15-6/21
SHERIFF - JAIL/DISPATCH	Summit Food Service Management	3,958.31	Inmate Meals 6/22-6/28
		30,033.39	
UNALLOCATED	Fish Lake Improvement Association	1,264.00	AIS Grant - Curly Leaf Pond Weed Treatment on Fish Lake
UNALLOCATED	Kanabec Publications	391.86	County Board Minutes 5/7, 5/21 & Special Meeting Notice 7/11
UNALLOCATED	Knife Lake Improvement District	10,138.08	AIS Grant - Curly Leaf Pond Weed Treatment on Knife Lake
UNALLOCATED	MN Counties Insurance Trust	3,672.07	2023 P/C Adj Equip, 2023 P/C Adj SO Equip
UNALLOCATED	Quamba Lake Association	4,724.36	AIS Grant - Curly Leaf Pond Weed Treatment on Quamba Lake
		20,190.37	
63 Claims Totaling:		\$ 109,699.04	

Agenda Item #4

Regular Bills - Road & Bridge

Bills to be approved: 7/16/24

Vendor	Amount	Purpose
A&E Cleaning Services	1,440.00	Office cleaning
Ace Hardware	153.26	Shop supplies
Amazon Capital Services	349.09	Computer supplies
B & F Fastener Supply	334.79	Unit 2402 repair parts, Shop supplies
Beaudry Oil & Propane	2,446.20	Fuel deliveries
Gary Campbell	1,050.00	Beaver removal
Central Pension Fund	576.00	CPF Training Center Use Fee
Chamberlain Oil	239.47	Shop supplies
Elite Environmental Services, LLC	620.00	Hazardous waste inspection
Frontier Precision, Inc.	368.67	Engineering supplies
Gopher State One-Call	39.15	Locates
Wes Houtsma	950.00	Beaver removal
IT Savvy LLC	920.08	Accounting computer
JMD Manufacturing, Inc	341.35	Maintenance supplies
Johnson Hardware and Rental	44.50	Maintenance/Shop supplies
Kanabec County Coordinator	655.60	Postage
Knife River Corporation, North Central	10,998.75	2024 Dust control
Kwik Trip, Inc.	208.25	Gasoline purchases
Marco, Inc.	3,613.37	Printer lease, supplies, and contract rate charge
MN Counties Insurance Trust	60.93	2023 P/C Adj Hwy Equip
Schultz, Michael & Naomi	6,407.65	Relocation Expenses
Shar Shoo & Sha Sha Myint	675.00	Permit refund
North Central International	457.36	Unit 221 repair parts
Olson Power & Equipment	144.78	Unit 2402 repair parts
Oslin Lumber	190.93	Mailbox replacement
Pomp's Tire Service, Inc	493.12	Unit 2002 tire order
Power Plan	2,056.52	Unit 1505, 1902, 1302, 507 repair parts
Rinke Noonan	643.50	ROW SAP 033-605-023
Shi International Corp	708.29	Software
USIC Locating Services	70.00	Locate/Site Visits

30 Claims Totaling: 37,256.61

Agenda Item #5

July 16, 2024

REQUEST FOR BOARD ACTION

a. Subject: SCORE Claims – May	b. Originating Department: County Coordinator
c. Estimated time: 2 minutes	d. Presenter(s): None

f. Board action requested:

Resolution #__ – 7/16/24 SCORE CLAIMS

WHEREAS the board has been presented with claims for recycling efforts to be paid from SCORE Funds, and

WHEREAS these claims have been reviewed, tabulated and approved by the Kanabec County Solid Waste Officer, and

WHEREAS SCORE Funds appear adequate for the purpose;

BE IT RESOLVED to approve payment of the following claims on SCORE Funds:

Waste Management	\$792.93
Quality Disposal	\$5,869.40
Arthur Township	\$500.00
Total	\$7,162.33

g. Background:

Provider	Billed	Paid Amount
QUALITY DISPOSAL (May)	\$5,369.40	\$5,369.40
WASTE MANAGEMENT (May)	\$792.93	\$792.93
Sub-Total	\$6,162.33	\$6,162.33
Recycling Center Incentive Payments:		
Quality Disposal (May)	\$500.00	\$500.00
Arthur Township (May)	\$500.00	\$500.00
TOTAL PAYMENTS =		\$7,162.33

Date received in County Coordinators Office: Various dates in June

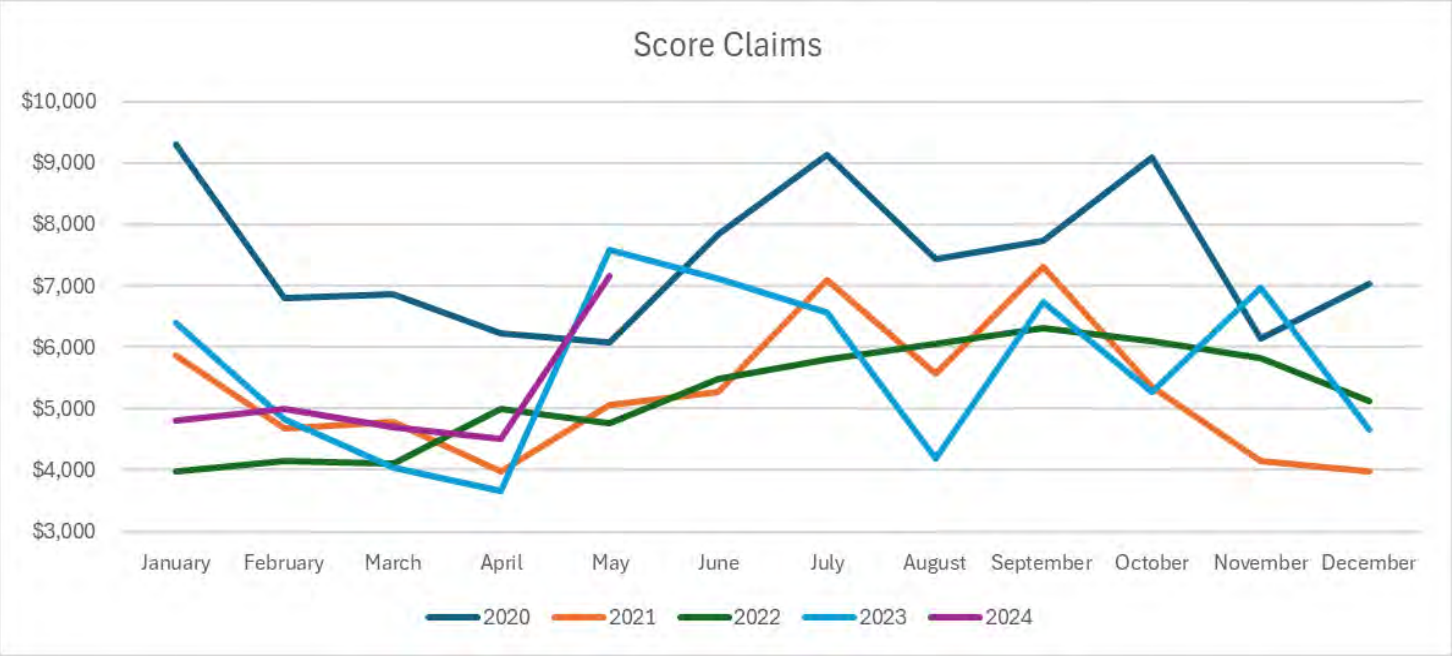
January 1, 2024 SCORE Fund balance = \$121,734.95

Revenue: 01-391-392-0000-5332 =

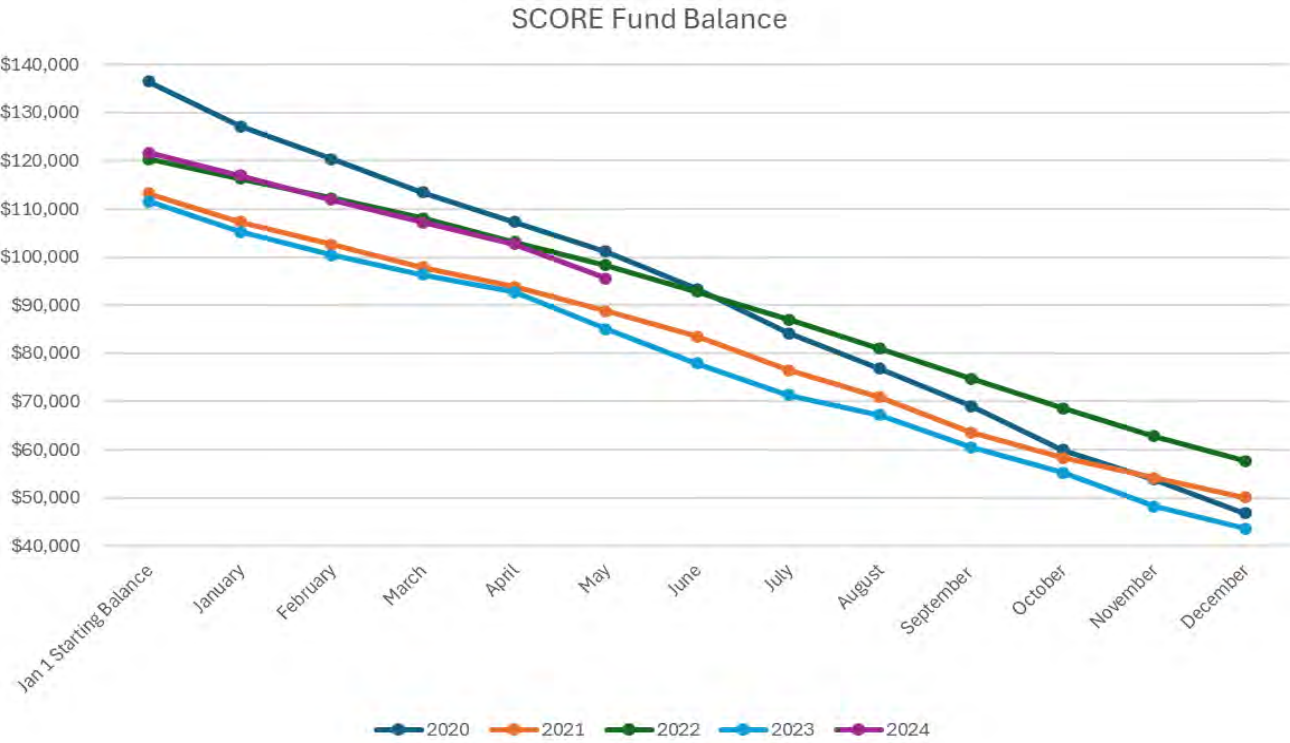
Expenditure: 01-391-392-0000-6211 = \$26,165.25

Current SCORE Funds balance is = \$95,569.70

	SCORE Claims				
	2020	2021	2022	2023	2024
January	9,300.12	5,865.80	3,981.20	6,401.96	4,803.04
February	6,805.84	4,669.24	4,147.96	4,814.65	4,999.67
March	6,858.42	4,790.00	4,097.60	4,049.47	4,687.65
April	6,233.79	3,984.80	5,003.00	3,649.60	4,512.56
May	6,083.12	5,062.34	4,770.60	7,589.15	7,162.33
June	7,842.70	5,272.32	5,477.81	7,125.02	
July	9,128.40	7,091.36	5,798.18	6,574.97	
August	7,433.67	5,557.65	6,054.56	4,180.49	
September	7,736.89	7,305.92	6,306.46	6,738.69	
October	9,089.98	5,355.02	6,094.20	5,265.00	
November	6,132.24	4,140.60	5,830.12	6,976.46	
December	7,038.75	3,981.20	5,113.82	4,645.91	



	SCORE Fund Balance				
	2020	2021	2022	2023	2024
Jan 1 Starting Balance	136,476.22	113,199.89	120,350.31	111,602.85	121,734.95
January	127,176.10	107,334.09	116,369.11	105,200.89	116,931.91
February	120,370.26	102,664.85	112,221.15	100,386.24	111,932.24
March	113,511.84	97,874.85	108,123.55	96,336.77	107,244.59
April	107,278.05	93,890.05	103,120.55	92,687.17	102,732.03
May	101,194.93	88,827.71	98,349.95	85,098.02	95,569.70
June	93,352.23	83,555.39	92,872.14	77,973.00	
July	84,223.83	76,464.03	87,073.96	71,398.03	
August	76,790.16	70,906.38	81,019.40	67,217.54	
September	69,053.27	63,600.46	74,712.94	60,478.85	
October	59,963.29	58,245.44	68,618.74	55,213.85	
November	53,831.05	54,104.84	62,788.62	48,237.39	
December	46,792.30	50,123.64	57,674.80	43,591.48	



Agenda Item #6

July 16, 2024

REQUEST FOR BOARD ACTION

a. Subject: Request to approve an agreement with the City of Mora for EDA services	b. Origination: Kanabec County EDA
c. Estimated time: 5-10 minutes	d. Presenter(s): Kris McNally, Coordinator

e. Board action requested:

Approve the following resolution:

Resolution #_____ - 7/16/24

Economic Development Services Agreement with the City of Mora

WHEREAS, Kanabec County's Economic Development Authority (EDA) is currently without an Executive Director; and

WHEREAS, the Kanabec County EDA Board desires to continue priority development projects in the interim; and

WHEREAS, the City of Mora is willing to commit a limited number of hours per month for their Community Development Director to provide economic development services on behalf of Kanabec County for an hourly fee; and

WHEREAS, the Kanabec County EDA Board is recommending the County enter into an agreement with the City of Mora for economic development services;

THEREFORE, BE IT RESOLVED to approve Kanabec County to enter into an agreement with the City of Mora, for the terms and conditions specified within said agreement for economic development services;

BE IT FURTHER RESOLVED that the Board Chair and County Coordinator are authorized to sign said agreement.

f. Background:

Supporting Documents: None Attached: ☒

Date received in County Coordinators Office:

Coordinators Comments:

**AGREEMENT FOR ECONOMIC DEVELOPMENT SERVICES
BETWEEN KANABEC COUNTY AND THE CITY OF MORA**

This Agreement is made by and between the City of Mora ("City"), a Minnesota municipal corporation pursuant to Minnesota Statutes section 412.221, subdivision 2, and the County of Kanabec ("County"), a Minnesota political subdivision pursuant to Minnesota Statutes section 373.01, subdivision 1(a)(4); collectively, the "parties."

WHEREAS, the County desires to contract for certain economic development assistance; and

WHEREAS, the City has a staff person dedicated to community and economic development activities and agrees to provide such assistance.

NOW, THEREFORE, in consideration of the mutual covenants and understandings contained herein, the County and City enter into this Agreement:

1. Economic Development Consulting

The City agrees that its Community Development Director may provide economic development consulting services to the County. It is anticipated that these projects will typically not exceed 5-10 hours per month. These projects would not supersede the Community Development Director's primary duties with the City.

The scope of services is included as Attachment A and may be modified from time-to-time by mutual agreement of the parties. The County will not be billed for non-County economic development time.

2. Primary Point of Contact

The Kanabec County EDA Board Chair will be the County's primary contact. The primary contact shall be responsible for communicating the County's priorities, managing the budget and time allocation.

The Community Development Director shall be the City's primary contact.

3. Financial

- a. The Community Development Director shall record time dedicated to this work in 15-minute increments.
- b. The time required may include business and non-business hours, travel time for and time attending meetings with developers, townships and municipalities, and others as is mutually agreeable.
- c. The cost of the services shall be based on the Community Development Director's hourly rate and fringe benefit cost which is \$58.00/hour. This rate may be adjusted annually starting January 1, 2025 by written agreement of both parties.
- d. The County shall supply a vehicle for County-related business use or mileage shall be paid at the IRS rate for necessary travel.
- e. The County shall provide office space, computer and other technology needed at no additional cost.
- f. Limited copies needed for the work shall be provided at no additional cost.
- g. The City will invoice the County on a monthly basis; payment is due within 30 days of invoice.

- 4. Cancellation.** Either party may cancel this Agreement at any time, with or without reason, with a minimum of a 30-day written notice provided to the other party.

5. **Independent Contractor.** The parties understand that the City is an independent contractor and not an employee of the County.
6. **Service Agreement.** This is a service agreement. The parties do not intend to undertake or create, and nothing herein shall be construed as creating a joint powers agreement, joint venture, or joint enterprise between the parties.
7. **Indemnification.** Except as arising from or out of the City's fault or negligence, the County agrees to indemnify and defend the City, its officials, agents, and employees against and will hold harmless the City, its officials, agents and employees from any claims, expenses, or damages, including attorneys' fees arising from the City's performance of its obligations pursuant to this Agreement.

Except as arising from or out of the County's fault or negligence, the City agrees to indemnify and defend the County, its officials, agents, and employees against and will hold harmless the County, its officials, agents and employees from any claims, expenses, or damages, including attorneys' fees arising from the County's performance of its obligations pursuant to this Agreement.

8. **No Waiver.** Nothing herein shall be construed to waive or limit any immunity from, or limitation on, liability available to either party, whether set forth in Minnesota Statutes Chapter 466 or otherwise.
9. **Modification.** This writing contains the entire agreement between the parties and no alterations, variations, modifications, or waivers of the provisions of this Agreement are valid unless reduced to writing, signed by both the City and the County.
10. **Subcontracting & Assignment.** The City shall not subcontract or assign any portion of this Agreement to another without prior written permission from the County.
11. **Term.** This Agreement shall commence on the date signed by the parties and be reviewed no later than December 31, 2024. This agreement shall continue until cancelled or superseded by a new, written Agreement.

COUNTY OF KANABEC

CITY OF MORA

By:

Rick Mattson, Chair
Kanabec County Board of Commissioners

Jake Mathison, Mayor
City of Mora

Attest:

Kris McNally, County Coordinator
Clerk to the Board of Commissioners

Natasha Segelstrom, City Clerk
City of Mora

Attachment A

1. Consult on agendas and packets in collaboration with the County's Administrative Assistant, attend Kanabec County EDA meetings, provide updates, receive feedback, and implement directives.
2. Serve as the primary contact for available land, buildings, business resources and business subsidies.
3. Oversee the project management of existing County economic development projects:
 - a. Weidner tax abatement (County portion)
 - b. Ogilvie housing project
 - c. Oversight and follow up on existing tax abatement projects (NPP and JFC)
 - d. Strategic Direction Action Items as identified in the Kanabec County EDA's Strategic Plan
4. Consult on website updates to County's development related pages, social media posts, and media communications on the County EDA's behalf.
5. Provide quarterly updates to the Board of Commissioners.