

# MAPLE GROVE

**BASELINE INVENTORY REPORT 2022** 



Date: September 2022

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#### **Meewasin Valley Authority**

402 Third Avenue South Saskatoon, SK S7K3G5 Treaty 6 Territory and Homeland of the Métis



#### **Meewasin Valley Authority**

Created in 1979, the Meewasin Valley Authority ("Meewasin") is a non-profit organization dedicated to conserving the cultural and natural resources of the South Saskatchewan River Valley. Meewasin's enabling statute, *The Meewasin Valley Authority Act*, established a partnership between the City of Saskatoon, the Government of Saskatchewan, and the University of Saskatchewan for the joint management of the South Saskatchewan River Basin. Meewasin's structure reflects a commitment to the goal of having the participating parties accomplish more by working together through a single agency – Meewasin – than could be achieved individually.

**Photo Front Cover:** Aerial UAV photo of Maple Grove, northeast site extent. Photo captured on 06/16/2022. Photo credit: Meewasin.

**Photo Back Cover:** Aerial UAV photo of Maple Grove, southwest site extent. Photo captured on 06/16/2022. Photo credit: Meewasin.



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#### **Acknowledgements**

Meewasin respectfully acknowledges that the lands and water bodies documented in the following report are located on Treaty 6 Territory and the Homeland of the Métis. Meewasin acknowledges that Indigenous peoples have lived and thrived in relation to the land in this region since time immemorial. Meewasin honours and recognizes the immense knowledge held by the traditional caretakers of this land as we do our best to assist in its stewardship.

The Meewasin Resource Management team would like to thank and acknowledge Stan Shadick and the many members of the Saskatoon Nature Society for their contributions to this project. Meewasin is grateful for the presence of groups such as the Saskatoon Nature Society and the broader local community of nature enthusiasts who contribute to ecological monitoring through the documentation of biodiversity in the Saskatoon region. The Meewasin Resource Management Team would also like to extend gratitude to the Saskatoon Public Library for the assistance in locating background articles and photographs related to the history of the Maple Grove site.

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# 1.0 Maple Grove Site Introduction

The purpose of this document is to provide a condensed summary of the current known status of the Maple Grove site. This report will serve as a reference for future resource management and site master planning exercises.

Maple Grove is a Meewasin property situated on the west bank of the South Saskatchewan River in the Rural Municipality of Corman Park #344 (Figure 1). The site lays on the outskirts of the City of Saskatoon, located approximately one kilometer upstream from the Queen Elizabeth II Power Station. Maple Grove is a rich topographical and ecological landscape comprised of diverse upland and floodplain areas with a fluctuating eastern site boundary defined by the riverbank (Delanoy, 2000). Maple Grove is accessible at the northeastern point of the property by municipal road (Township Road 362/ Hodgson Road) and an internal system of graveled roads and trails provide access to remaining portions of the site (Figure 1).



Figure 1. Maple Grove Site Location Overview Map

## 1.1 Legal Property Description

The entire legal property title for Maple Grove includes two irregularly shaped partial quarter sections (Part NE 12-36-06-W3 Ext 31 and Part NW 12-36-06-W3 Ext 32) which combined make up approximately 45.2 hectares of land area (Figure 2; Table 1). The legal land parcel boundaries delineating the Maple Grove property title extend from the mainland site area across a channel of the South Saskatchewan River onto the adjacent river island, known as Yorath Island (Figure 2). Although a portion of Yorath Island is technically included within the legal land title area for the Maple Grove property, Meewasin considers the mainland Maple Grove property and Yorath Island as separate site areas. The Maple Grove site, which serves as the primary focus of this report, includes approximately 22.5 hectares of terrestrial land area contained within the Maple Grove site boundary illustrated in Figures 1 and 2.



Figure 2. Maple Grove and Yorath Island Ownership Map

Table 1. Maple Grove Property Information Summary

Site Information Component	Description			
Site Name	Maple Grove			
Ownership	Meewasin Valley Authority			
Property Location	Rural Municipality of Corman Park No. 344, Saskatchewan			
Total Site Area	The Maple Grove site is approximately 22.49 hectares (~55.57 acres) in size.			
The Meewasin Valley Authority Act, SS 1979, c M-11.1.  Meewasin Valley Authority Act Reference  The Maple Grove property area falls within the lands described in Schedule A, subsections 4(e) and 4(f), of The Meewasin Valley Authority Act applies to portions of the Maple Grove property.				
Municipal Planning Considerations	<ul> <li>Maple Grove falls within the Saskatoon North Partnership for Growth (P4G) Planning District and Zoning Bylaw area. The following P4G municipal planning considerations apply to the site:</li> <li>Schedule 1 Zoning District: 'Agricultural District 1' (Code DAG1) (P4G Zoning Bylaw, 2023a, 6.3, p.93; Appendix Figure A-I 7)</li> <li>Schedule B District Land Uses: Green Network Study Area (P4G, 2023b, p.80)</li> </ul>			
Legal Land Description	<ul> <li>The Maple Grove property title area is comprised of two partial quarter sections which correspond with the following legal land descriptions:</li> <li>Part NE 12-36-06-W3 Ext 31: North East Quarter of Section 12, Township 36, Range 6, West of the Third Meridian, Extension 31, Saskatchewan</li> <li>Part NW 12-36-06-W3 Ext 32: North West Quarter of Section 12, Township 36, Range 6, West of the Third Meridian, Extension 32, Saskatchewan</li> </ul>			
Total Legal Property Area	The total Maple Grove property title area is approximately 45.2 hectares (~111.6 acres). Parcels contained within the property title extent correspond with the following land areas:  • Part NE 12-36-06-W3 Ext 31 contains approximately 20.7 hectares (~51.2 acres)  • Part NW 12-36-06-W3 Ext 32 contains approximately 24.5 hectares (~60.5 acres)			

## 1.1.1 Legal Property Title Area

The legal property title for Maple Grove (illustrated in Figure 2) encompasses approximately 45.2 hectares of designated title area (Table 2). The total property contained within the Maple Grove land title includes the mainland Maple Grove site and spans across a channel of the South Saskatchewan River onto a portion of the adjacent Yorath Island land mass (Figure 2).

The following table details the distribution of Meewasin property title area across parcel title boundaries, river channel, and the terrestrial areas of Yorath Island and Maple Grove.

Table 2. Distribution of Meewasin Maple Grove Property Title Area

Property Title Portion Terrestrial Area Maple Grove (ha)		Terrestrial Area Yorath Island (ha)	River Channel Area (ha)	Total Property Area (ha)
Parcel Part NE 12-36-06-3 Ext 31	6.98	9.29	4.43	20.7
Parcel Part NW 12-36-06-3 Ext 32	15.51	5.28	3.71	24.5
Total Area (ha)	22.49	14.57	8.14	45.2

The entire Maple Grove property title includes over 37 hectares of terrestrial land title area with approximately 22.49 hectares of land on the mainland Maple Grove site and 14.57 hectares of land on Yorath Island (Table 2). The remaining approximate 8.14 hectares of title land area is located in the fluctuating river channel space between the mainland and river island (Table 2).

Parcel Part NE 12-36-06-3 Ext 31 includes approximately 20.7 hectares of land title area. Land title areas contained within Extension 31 include approximately 6.98 hectares of land on the Maple Grove site area, 9.29 hectares of land on Yorath Island, and 4.43 hectares of land title area in the river channel (Table 2). Parcel Part NW 12-36-06-3 Ext 32 includes approximately 24.5 hectares of property title area including 15.51 hectares on Maple Grove, 5.28 hectares on Yorath Island, and 3.71 hectares in the river channel area (Table 2).

#### **Yorath Island Property Title Area**

Early land survey records reveal that the entire quarter section housing the Maple Grove property was historically intact on the mainland area when the region was originally surveyed in 1902 (Meewasin, 1980; Figure 3). In the century following the original land survey, meandering river channel dynamics caused portions of the mainland property to split off into the river, eventually forming a mid-channel sand bar that slowly developed into Yorath Island (Meewasin, 1980). Yorath Island gradually formed and established through processes of erosion, sedimentary deposition, and ecological succession (Figure 3; Meewasin, 1980). The natural accretion process that resulted in the formation of Yorath Island has allowed property owners of Maple Grove to retain title of the remaining quarter section contemporarily situated on a portion of Yorath Island (Meewasin, 1980).

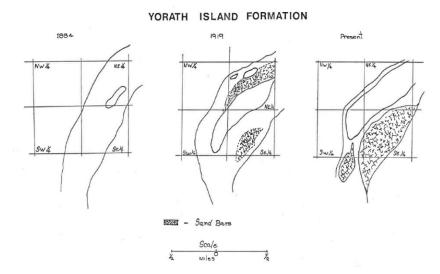


Figure 3. Yorath Island Formation Illustration. Figure retrieved from the Yorath Island Working Paper (Meewasin, 1980, p.5, Fig. 2.1).

Although Yorath Island is considered by Meewasin to be distinct from the Maple Grove site, the direct proximity of the island grants its inclusion within the broader Maple Grove study area of this project.

### 1.1.2 Municipal Planning

#### Saskatoon North Partnership for Growth (P4G) Planning District

The Maple Grove site falls within the Saskatoon North Partnership for Growth (P4G) Planning District area. The P4G is a strategic municipal partnership formed by the City of Saskatoon, Rural Municipality of Corman Park, City of Martensville, Town of Osler, and the City of Warman to advance a regionally coordinated approach to municipal planning, rural and urban land use, servicing, and development (P4G, 2023a). The P4G Planning District and its associated Official Community Plan, District Planning Agreement, and Zoning District Bylaw assist in the implementation of this regional vision (P4G, 2023a).

#### **P4G Zoning District Classifications**

A map of the current Schedule 1 zoning surrounding Maple Grove can be found in Appendix A-I (Figure A-I 7 retrieved from P4G District Zoning Bylaw Community Plan, 2023b, p.173).

Maple Grove is located within the P4G Planning District and Zoning Bylaw Area within the Rural Municipality of Corman Park (P4G, 2023b). Property areas at Maple Grove are subject to zoning district classifications and the associated land use regulations and requirements outlined in the *P4G Planning District Zoning Bylaw*. Areas within the Maple Grove property fall under the P4G Schedule 1 zoning district classification 'Agricultural District 1 (DAG1)' (P4G 2023b; Figure A-I 7).

Section 6.3 of the *P4G Planning District Zoning Bylaw*, states that the purpose of the DAG1 District classification is, "to accommodate extensive and intensive agricultural activities while providing for complementary, non-agricultural development" (P4G, 2023b, 6.3.1: p.93). Section 6.3 of the *P4G Planning District Zoning Bylaw* outlines a range of permitted and discretionary land uses, specific use development standards, site development regulations, and landscaping development standards associated with the DAG1 zoning district classification.

#### **P4G Planning District Future Land Use Designations**

General land use designations for the P4G Planning District are outlined in Schedule B of the P4G Official Community Plan document. According to the land use designations marked on the Schedule B District Land Use Map, the Maple Grove property falls within the Green Network Study Area (P4G, 2023b, p.80). The Green Network Study Area is a land use category that includes connected ecological areas, natural corridors, and green spaces within the P4G region (P4G, 2023a: S.17.0, p.46). According to the P4G Official Community Plan, the Green Network Study Area is intended to promote connectivity between natural areas, and support multifunctional green spaces that deliver environmental, cultural, and recreational benefits (P4G, 2023a). The Green Network Study Area is also intended to accommodate compatible agriculture, outdoor recreation, and sensitively integrated storm water management infrastructure (P4G, 2023a).

# 1.2 Property Securement History

Meewasin recognized the value of the Maple Grove property and its enduring relevancy within the context of the Meewasin Valley region long before the Maple Grove site entered the real estate market. Raymond Moriyama Architects and Planners initially identified the Maple Grove area in the 1978 *Conceptual Master Plan* as a potential interactive feature point within the larger system of linkages and nodes constituting the envisioned Meewasin Valley corridor (Moriyama, 1978). The Moriyama visioning team had highlighted Yorath Island and the adjacent west mainland region due to its demonstration of unique floodplain ecology and distinct meandering formational processes that define the surrounding Meewasin river valley area (Moriyama, 1978). Meewasin specifically identified Maple Grove as a 'high priority for purchase' internally when the Land Acquisition Policy was created in 1981 and initiated a multi-year process of exploring various options related to site securement and visioning surrounding the property (Meewasin, 2000).

Meewasin finally purchased the Maple Grove site in 1998 from previous owners, Michael and Lillian Egnatoff. The Egnatoff family had developed and maintained the Maple Grove area as an amusement park and community gathering space, then known as 'Leisureland'. During the Leisureland-era, the site featured various recreational attractions including amusement park rides, dance hall and banquet facilities, picnicking areas, playing fields, miniature golf, and a camping area that eventually transitioned into a permanent residential trailer park with 18 trailer units (Egnatoff, 1998). Meewasin was able to purchase the Maple Grove property from Michael Egnatoff in 1998 with support from the Leisureland trailer park residents who had organized the formation of a cooperative body and negotiated a 25-year lease agreement with Meewasin (Memorandum of Agreement, 1997).

# 2.0 Anthropogenic Background

This section summarizes relevant known anthropogenic developments, archaeological data, and locally archived histories associated with the Maple Grove property area. Most comprehensive historical documentation possessed by Meewasin in relation to the Maple Grove property chronicles the period following Meewasin's securement of the site in 1998. This report does not claim to provide a complete rendering of the human histories, impacts, and relationships that have existed in the Maple Grove area as well as the social and cultural significance that the broader site region has held prior to and external from colonial settlement, research institutions, and property titles.

## 2.1 Archaeological Background

The Meewasin Valley Archaeological Resource Management Study (Walker et al., 1987) is the main source for all archaeological background information presented within this subsection. Meewasin commissioned the University of Saskatchewan's Department of Anthropology and Archaeology to perform this study in the late 1980s as a jurisdiction-wide effort to aggregate, identify, and provide guidelines for the protection of known archaeological resources within the Meewasin Valley area. The team of academic researchers for this study consisted of the following members: Ernest G. Walker, David L. Kelley, and Richard Gorre. The 1987 archaeological study details two separate archaeological research sites discovered within range of the Maple Grove study area. The sites located within the Maple Grove study area correspond with the following names: Glow Site II (FaNq-39) and Wettlaufer's S-33 (FaNq-3).

The Glow Site II (FaNq-39) is primarily situated on landowner A. Glow's quarter section and intersects the land designated as the Maple Grove study area. Documentation of this archaeological site is limited. This site was surveyed both in 1966 by Ian Dyck and in 1973 by Ernie Walker, recovering surface finds of ceramic materials, Oxbow points, flakes, and lithic debris.

The north tip of Yorath Island falls within the Wettlaufer's S-33 (FaNq-3) archaeological zone. Documentation of this site within the *Meewasin Valley Archaeological Resource Management Study* contains limited information regarding the associated archaeological artefacts found and details observed.

It is of note that additional and significant archaeological finds occurred in the area northeast of Yorath Island's tip and the surrounding SaskPower land and Saskatoon Landfill area, including the original Gowen Site and Gowen Two (Walker et al., 1987). The original Gowen archaeological site discovery (Gowen One) was an extensive habitation site and bison processing area uncovered at the Saskatoon Landfill in 1977 which was classified as a large Early-Side Notched Occupation and radiocarbon dated to 6000 years before present (Walker et al., 1987). Gowen One was heralded as a significant discovery in the field of archaeological research, as few of such sites had been excavated in North America at that time. Gowen Two is located just northeast of the Maple Grove Property. It was initially recorded and classified in 1980 as an Early Plains Archaic habitation site and radiocarbon dated at 6000 years before present (Walker et al., 1987).

## 2.2 Historic Site Management and Land Use

The Maple Grove site holds a long-standing legacy of leisure in the Saskatoon area bolstered by a historical record of community gathering and recreation that dates back to at least the early 1900s (Meewasin, 1980; Appendix Figure A-IV 11 Right). Local historical accounts surrounding the area suggest that cottagers were visiting and constructing cabins on the site as early as 1915 (Meewasin, 1980). The site is believed to have gained its name, 'Maple Grove', from early recreational visitors, in reference to the abundance of maple trees in the area (Meewasin, 1980). Evidence of the 1910s cottager era has been erased from the landscape as the original cabin structures and historic maple stands were incinerated by a wildfire that moved through the site sometime around 1915 (Meewasin, 1980).

Throughout the following century, the Maple Grove area sustained popularity as a gathering spot and sought-after location for picnicking and beach access, with heightened levels of visitation noted in the 1950s and 1960s (Meewasin, 1980; Appendix A-IV). The unique wilderness and rural character of the area provided refuge for many a site visitor while simultaneously supporting important wildlife habitat and plant communities. The location and ecological atmosphere of the site rendered the area as a favourite gathering spot for many Saskatoon locals, including members of the Saskatoon Nature Society, who frequented the site for picnicking and group outings in the 1960s (Stan Shadick, personal communication, 2021).

In the 1950s, famed local hockey players Bill Heindl and Chuck McCullough owned and operated the Maple Grove site as a summer resort destination (Saskatoon StarPhoenix, 1951; Appendix Figure A-IV 12). In an interview published by the Saskatoon StarPhoenix, Heindl was quoted jestingly commenting on the site resort endeavour, proclaiming Maple Grove as "The Poor Man's Waskesiu" (Saskatoon StarPhoenix, 1951; Figure A-IV 12). Mike Egnatoff provided additional memory of the 1950s Maple Grove era in an oral interview with Meewasin, noting his recollection of local hockey players regularly erecting party platforms on the northeast tip of the property to host jitney dances and gatherings (Egnatoff, 1998).

Michael and Lillian Egnatoff purchased the Maple Grove site in 1960 from then previous owner Fred Saitch and retained ownership of the property for approximately 35 years (Egnatoff, 1998). The Egnatoff family developed the Maple Grove site to accommodate increased recreational visitation and officially re-opened the site to visitation in the spring of 1961 (Egnatoff, 1998). At that time, the site had resumed public operations under the new name, 'Leisureland', and visitors gained access with an admission fee of 50 cents per vehicle (Egnatoff, 1998). During the Leisureland-era, increased site visitation drove the Egnatoff family to expand operations for the accommodation of larger-scale community gatherings, overnight camping, and destination entertainment amenities (Egnatoff, 1998).

In 1961, a large recreational hall was installed on the site equipped with dancing and banquet facilities to host up to 225 people (Egnatoff, 1998). Site expansion continued with the gradual introduction of additional features such as a smaller banquet hall, an 18-hole mini-golf course, a baseball diamond and recreational playing fields, a concession stand, additional picnicking areas, and a series of 36 overnight camping sites which were later converted into 18 fully-serviced mobile home trailer stalls (Egnatoff, 1998). The Egnatoff family additionally installed and operated a series of amusement park rides on-site with a public admittance fee of 10 cents per ride (Egnatoff, 1998). The rotational collection of rides included a child's airplane ride, two Ferris wheels, a roller

coaster (which was never made operational), a merry-go-round, and a train – then known as the 'Leisureland Express' (Appendix Figures A-II 22 & A-IV 20) – which would carry passengers across the entire site (Egnatoff, 1998). Leisureland amusement attractions were operational for public visitation for a period of approximately 20 years, ceasing around 1980 in response to decreased visitor demand and increased recreational competition in the surrounding Saskatoon area (Egnatoff, 1998; Saskatoon StarPhoenix, 1977: Figure A-IV.19). Around this time, in the nearby City of Saskatoon, the local Kinsmen Club had invested in site improvements and the installation of recreational facilities and amusement park rides at Kinsmen Park (City of Saskatoon, 2011).

In years following the decline of Leisureland operations, the site was operated predominately to accommodate residential dwellings, offering lease space for mobile homes and facility rentals. The Egnatoff family briefly explored the possibility of significantly expanding trailer court capacity on the site but the initiative fell through due to a lack of finances (Egnatoff, 1998). In 1982, the Egnatoffs constructed a 3-bedroom bungalow home on the Leisureland site, overlooking the river and Yorath Island, to serve as their personal recreational cottage (Egnatoff, 1998). In 1988, Mike Egnatoff began leasing the small banquet building to a group of Saskatoon artists (Egnatoff, 1998). The Artists' Studio accommodated eight studio workspaces and housed a rotation of renowned Saskatoon-region artists engaged in various creative pursuits including painting, picture framing, and large-scale stone masonry and metal sculpting (Egnatoff, 1998; Figure A-IV 22).

In 1998, at the age of ninety, Michael Egnatoff sold the Maple Grove property to Meewasin, having made the decision to list the site for sale in view of his advanced age (Egnatoff, 1998). Meewasin was able to secure the site with support from Leisureland trailer court residents who had formed a cooperative body (Leisureland Community Co-Operative LTD) and negotiated a lease agreement with Meewasin over the trailer park area (Memorandum of Agreement, 1997). The lease agreement included a 25-year period of tenancy over the trailer park area (commencing on December 31, 1997 and terminating on December 31, 2022) in exchange for support towards the securement of the Maple Grove property (Lease Agreement, 1997).

## 2.3 Contemporary Site Management and Land Use

#### 2.3.1 Meewasin Site Management

Following site purchase in 1998, the major remaining Leisureland-era infrastructure items on site included the Leisureland Hall, Leisureland Express Train Shed, 3-bedroom bungalow (referred to colloquially within this document as the 'White House'), and the Artist Studio building (formerly known as the Small Banquet Hall) (Johnson Appraisals Ltd., 1996). The long-term lease agreement with the Leisureland Cooperative members guaranteed trailer court tenants a twenty-five year occupancy over the trailer park area in alignment with various negotiated terms outlined in the lease agreement (Lease Agreement, 1997). Meewasin leased the Leisureland Hall out to the Leisureland Cooperative for a few years and allocated a separate series of tenant lease agreements over the White House and the Artist Studio buildings. In alignment with the lease terms, the trailer court area and site region located south of the trailer court area have remained off-limits to the public during the active lease period.



In 2003, a grassfire moved through the southern portion of the site, travelling across the old southwest ball diamond recreational field area and into the forested floodplain region just southwest of the trailer court. The fire was contained by a ploughed firebreak, which was later used as the basis for a gravel-based recreational trails system implemented by Meewasin. The trail system is located south of the trailer court and curves through the shrub and forested floodplain areas, providing users river views at various lookout points. Since installation, Meewasin has performed minimal upkeep on the trail system (Figure A-II 10).

Over the years Meewasin has engaged in various forms of structural maintenance, decommission, and demolition on remaining Maple Grove site structures. Within this process, Meewasin has made an effort to prioritize the recycling, repurpose, and relocation of materials and artefacts present within or associated with structures that have been scheduled for decommission and demolition. Leisureland-era amusement rides and defective structures that had remained on the Maple Grove property following site acquisition were removed for repurpose and salvage when possible. Notably, the iconic 'Leisureland Express' train was sold in 2013 and relocated east of Saskatoon to its present-day location where the refurbished train continues operations under its new name, the 'OTI RR' (Figure A-II 22). The Leisureland Express Train Shed was dismantled in 2014 due to an array of structural issues and the salvageable timber units from the Shed were repurposed to form the wooden entrance signs at Beaver Creek Conservation Area (a Meewasin property located south of Saskatoon).

The Artist Studio was demolished in 2008 because of irreparable damages caused by two devastating arson incidents. Until that point, the Studio space had been leased out by Meewasin to a collective of artists, known as The Technicrude Group. During the operational studio years, the artist residence building offered affordable studio rental space on the outskirts of Saskatoon. Maple Grove provided an idyllic natural creative setting that captured the artistic imagination of many landscape painters and multidisciplinary artists (Louise Cook & Darlene Hay, personal communication, 2023). In 2008, two separate fires had affected the Artist Studio building, both occurring within a three-month period. Property damages that followed the second fire were so severe that the studio structure had to be demolished (Figure A-II 25).

Leisureland Hall was demolished in July of 2004, as the decaying condition of the structure had rendered it unsafe for continued operation. Following the demolition of the Hall structure, Meewasin formalized the original Hall parking area through the installation of a series of wooden bollards positioned to mark the lot perimeter. Various disturbances such as fires, flooding, illegal trespassing and property damage, amenity failures, and tenant-related issues have prompted site maintenance and management actions on the Maple Grove site over the years (incidents documented in section 4.5). Management and development activities initiated by Meewasin in response to such disturbance events have been minimal and targeted towards damage prevention and infrastructure preservation.

In 2008, Meewasin installed additional site structural amenities including various signage, parking bollards, fencing segments, and gates to prevent public access and vehicular trespassing into various site areas. Chain-linked fence segments were installed at two key trespass locations in the northern and southern hayfields (Figures A-II 5 & A-II 6). One stretch of fence was installed at the northeast site access area to prevent vehicle passage into the northern hayfield along the former Studio access road and the other stretch was installed on the southern hayfield to prevent all-terrain vehicle and snowmobile trespass issues that had been occurring in the through upland adjoining property. Additional chain link fencing was installed around the playground perimeter

area and a segment of snow fence was erected along the north side of the entrance road to block vehicular trespass onto the former Artist Studio building and yard area (A-II 23). Bollards were installed near the site entrance area along the adjacent hillside slope to prevent vehicles from driving into the river (Figure A-II 7). Meewasin signage and cautionary notices were also installed in key visual areas (such as the parking lot and the entrance) to indicate site occupancy and trespassing rules (Figure A-II 8).

Meewasin has applied landscape restoration and resource management actions over the years on a limited basis to restore disturbed areas and reduce the spread of noxious weeds and invasive plant species. Meewasin contracted having to occur along the two remnant hayfield areas at Maple Grove for a period of three years during the late summer seasons of 2017, 2018, and 2019. Prior to that three-year having period, the hayfield areas sat idle for a decade with established vegetative dominance by non-native grass species and associated invasive plants. Targeted invasive species control efforts have been relatively limited on the Maple Grove site with the exception of a robust control effort targeting European Buckthorn (Rhamnus cathartica) and Leafy Spurge (Euphorbia esula). Additional invasive vegetation surveying, patch monitoring, and treatments have occurred on the site in limited capacities. Management and development activities on the Maple Grove property in the years following site securement have been purposefully minimal in anticipation for the commencement of a formal site master plan.

## 2.3.2 Regional Land Uses

Present-day land use in the Maple Grove region is varied. Commercial land uses in the immediate area predominately focus on the production cereal grains, oilseed, and forage. The surrounding area also contains a number of small-scale market gardens and greenhouse production facilities (some with associated commercial storefronts and entertainment venues) yielding seasonal harvests of garden vegetables and consumable field produce, berry bushes and fruit-bearing tree orchards, beverage distillery, and enterprises producing vegetation for landscaping and aesthetics. Additional land uses in close proximity to the Maple Grove property include a number of residential acreages and a commercial dog kennel operation located on a property neighbouring the site.

There are a number of City of Saskatoon facilities and civic amenities positioned in close adjacency to the Maple Grove property. The Queen Elizabeth II Power Station is the closest neighbouring civic facility, located off the west bank of the South Saskatchewan River approximately a kilometer downstream from the site. The Regional Waste Management Centre (Saskatoon Landfill) sits just to the north of the Power Station, about a kilometer northeast of Maple Grove. Additional significant civic developments positioned further north of Maple Grove within two-kilometers of the site include the Saskatoon Civic Operations Centre and its associated civic snow dump and the Saskatoon Intermodal Terminal (CN Rail Yard). Natural recreational areas located within a similar two-kilometer vicinity to the north of Maple Grove include the Richard St. Barbe Baker Afforestation Area, the Southwest Dog Park, and Ducks Unlimited Canada's conservation property named Chappell Marsh Conservation Area. Chief Whitecap Park, Riverside Country Club, and Birchwood Heights Estates are located further south, across the river from Yorath Island.

## 2.4 Current Site Development Profile

The following table contains a summary of all known active structural amenities on the Maple Grove property. The information catalogued in Table 4 below is informed by detailed topographic infrastructure surveying conducted in the winter of 2019 and inventory visits conducted in the spring and early summer of 2022 with some additional information derived from historical survey data reported during the year prior to official site purchase. The table below presents a summarized description of site infrastructure features and ascribes an associated ranking based on the perceived functionality and condition of each feature. This inventory reflects the condition of features at the time of surveying. Site infrastructure photos are located in Appendix A-II.

Table 3. Maple Grove 2022 Site Amenities Inventory

Feature	Count	Description	Condition	Notes
House	1	1425 square meters (0.14 hectares), 3-bedroom bungalow built in 1983; 1131 square feet with 2 car attached garage 22 x 24 feet. Located near riverbank overlooking river and Yorath Island.	Unknown	Shown in figures A-II 16 & A-II 21. Unit is actively leased to tenants.
Mobile home units		Trailer / mobile home units (privately owned).	Unknown	Note: many trailer court tenants in process vacating, decommissioning, and relocating trailer units during time of survey. Figures A-II 4, A-II 18, A-II 19, A-II 20. Condition of trailer court area is in a state of change.
Site Entry Sign	1	Meewasin 'Hours of Operation' sign. 'No Dumping' notice installed additionally to sign post.	Poor	Dated signage and Meewasin information is also out-of-date. Figure A-II 15.
Chain Link Fence Segment	2	20-foot segments of chain link fencing at northeast site entrance to hayfield area. 12.5-foot gap between the segments.	Excellent	Vehicular access gate to hayfield area – preventing trespass on historic Artist Studio access road. Gap opening was lacking a preventative access chain.
Chain Link Fence Segment	1	130-foot segment on northwesterly border of southwest hayfield.	Good to Satisfactory	Fencing is partially down. Installed to prevent recreational vehicle trespass from upland adjoining property area.
Chain Link Fence Backstop	1	Chain link backstop located in southwest hayfield, previous ball field.	Excellent	No active ball diamond located in position currently. Figure A-II 11.
Recreational Paths		Series of gravel-based recreational paths (installed ~2003) in back southwestern portion of site, behind trailer court.	Poor	Paths require some maintenance, gravel cover is thin and invasive plants growing throughout trail network. Some slumping along river bank adjacent to trails. Figure A-II 10.



Gravel Roads		Network of gravel roads running from site entry through trailer court area – connecting vehicular access through to parking areas, house, and trailer court stalls.	Good	Roads are in good condition and have been maintained. Figure A-II 9.
Parking Bollards	85	Wooden bollards placed along parking areas and northeast river edge.	Good	Mostly good condition, some minor to moderate damage / missing.
North site entrance parking area	1	Gravel parking area at site entry.	N/A	Area is not formally marked for parking. Figure A-II 12.
Central (main) parking area	1	Main gravel parking area north of trailer court.	N/A	Figure A-II 12.
Culverts	3	8" diameter culverts under roadway into adjacent drainage ditches.	Unknown	Appears intact, functionality unknown.
Central Parking Area Signage	Signage to denote private area. Message includes: 'No Public Access', 'No Trespassing', 'Through Road', and Meewasin 'Notice' for noten		Poor	Dated information, sign face faded and degraded sign posts. Figure A-II 15.
Playground Equipment	4	Playground equipment present: Monkey bars, Merry-Go-Round, Slide, Swing Set.	Poor	Playground equipment degraded and largely unsafe for use. Figures A-II 13, A-II 14.
Playground Perimeter Fencing	1	Chain Link fencing securing north, east, and west sides of playground area.	Excellent	
House Entry Road Signage	2	Signs marking entry to bungalow – messaging: 'No Trespassing' and 'No Exit'.	N/A	
Bore holes	2	White PVC stand pipe with cover.	Unknown	One borehole lacks cover cap.
Electrical Box	5		Unknown	
Fire Pit	2		N/A	Communal residential use.
Gas Box	1	SaskEnergy Natural Gas Regulator Station.	Unknown	
Mailbox	2	Canada Post Mailboxes at site entry.	Unknown	
Manhole	1		Unknown	
Power Outlet	1	Located in playground area on wooden post.	Unknown	
Power Pole	33		Unknown	
Telephone Box	1		Unknown	
Telephone Pedestal	8		Unknown	
Water Pipe	1		Unknown	
Water Valve	1	Located in playground area	Unknown	



The following figures provide a depiction of the Maple Grove site layout in reference to amenities and infrastructure features. Figure 4 provides some contemporary historical reference to property layout in the later Leisureland site era and early period following Meewasin property securement.

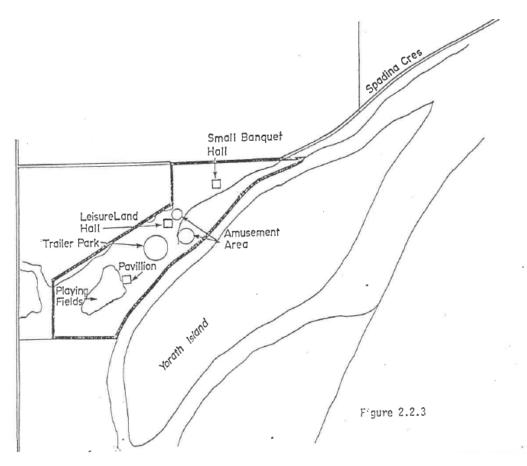


Figure 4. Illustration of Maple Grove Site in 1980. Figure retrieved from Yorath Island Working Paper (Meewasin, 1980, Fig. 2.2.3).

Figure 5 below illustrates the contemporary Maple Grove site layout illustrating the positions of various infrastructure features detailed in Table 4. Detailed topographic infrastructure and amenities surveying conducted by Meewasin in the winter of 2019 provided a spatial basis for the site features illustrated in the infrastructure map series (Figures 5, A-I 2, A-I 3, and A-I 4). Additional photos of Maple Grove depicting aerial site views and relevant contemporary and historic infrastructure items can be located in Appendix A-II. Additional site infrastructure maps providing a closer spatial illustration of site features (shown below in Figure 5) are located in Appendix A-I.

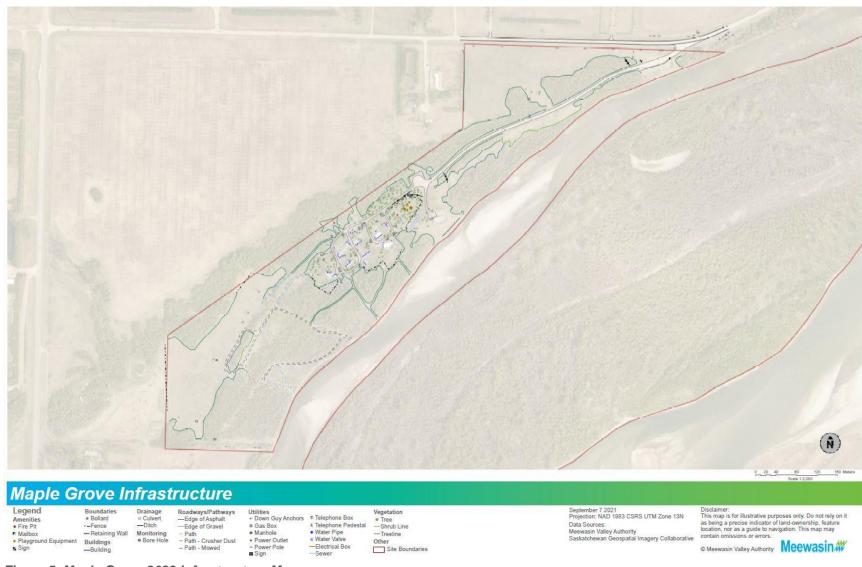


Figure 5. Maple Grove 2022 Infrastructure Map

# 3.0 Ecological Background

This section provides a brief summary of the physiological landscape, soils and sedimentary depositions, and hydrology surrounding the Maple Grove site. This information provides a basis for the vegetation cover trends and wildlife communities discussed in subsequent report sections.

# 3.1 Physiography

Numerous glacial advances and retreats have shaped the regional landscape surrounding Maple Grove (Christiansen, 1970). The site is located in the basin of historic Glacial Lake Saskatoon, which drained approximately 10,000 to 12,000 years ago, initiating the development of the Saskatchewan rivers watershed (Christiansen, 1970). Erosive processes prevailing within the river valley are primarily fluvial. Periods of high runoff associated with large snowfall melt or precipitation and flooding events have contributed to further topographical landscape distinction in the region (Walker et al., 1987).

The topographic region surrounding the Maple Grove site is characterized as a flat glacial plain, with elevations averaging about 500 metres above sea level (Christiansen, 1970). Elevations within the Maple Grove property range from 484 metres to 474 metres above sea level (Figure 6; Water Security Agency, 2013). The Maple Grove property can be divided into distinct upland and floodplain topographical areas (Delanoy, 2000). Higher altitudes on the Maple Grove site average around 480 to 478 metres with most predominate upland areas situated along the western site boundary and in the northeast and north-northwest corners of the site (Figure 6). The property gradually slopes in a southwest direction, towards the eastern site boundary defined by the South Saskatchewan River. The lower floodplain area altitudes range in elevations around 474 metres (Figure 6).

### 3.2 Soils and Sedimentation

Maple Grove is located in the Moist Mixed Grassland Ecoregion of the broader Prairie Ecozone (Thorpe, 2014). The regional climate is semiarid with moisture index values between -175 to -250 millimetres (Thorpe, 2014). The region exhibits extreme variations in temperature and averages low air water vapour content (Christiansen, 1970). The site falls in the Asquith soil association unit within the broader Dark Brown Soil Zone of Saskatchewan (Acton & Ellis, 1978). Dark Brown Chernozemic soils prevail throughout the site region due to relatively large organic matter inputs from grassland vegetation communities and slower rates of decomposition influenced by the cooler climatic trends in the region (Thorpe, 2014).

Provincial soil map data suggests that soils on the Maple Grove site developed on sandy glaciolacustrine deposits along the northwestern upland portion of the site and alluvial floodplain deposits along the southeastern floodplain portion of the site (Figure 8). Sedimentary drift in the Maple Grove region ranges in recorded thicknesses from 20 to 522 feet (Christiansen, 1970). Till layers exposed throughout the river valley are representative of the Saskatoon and Sutherland groups (Christiansen, 1970). The Asquith Ortho Dark Brown soil association runs diagonally across the site, along the western site boundary encasing the northwestern upland site areas



(Figure 7). Asquith soil association textures are coarse to moderately coarse and include loamy sand, sandy loam, and fine sandy loam textural classes, all with less than 15 percent clay content (Acton & Ellis, 1978). Alluvium Rego Chernozemic soils are predicted for lower altitude areas in the southwestern region of the site and floodplain areas adjacent to the South Saskatchewan River (Figure 7).

The Canada Land Inventory (CLI) indicates that the Maple Grove property area falls in the Class 2 and Class 6 quality ranges of Land Capability Class Descriptions for Agriculture (Government of Canada, 2013). According to the CLI system, the Class 2 soils located in the river flood plain areas may have moderate limitations that restrict the range of crops or require moderate conservation practices (Government of Canada, 2013). Soils located above the valley escarpment at Maple Grove fall within a CLI Class 6 grouping, which is assumed to contain appropriate levels of productivity for the production perennial forage crops with improvement practices generally suggested to be unfeasible (Government of Canada, 2013).

## 3.3 Hydrology

Bedrock contours in the Maple Grove property region suggest that the site is located above the bridge of a tributary bedrock valley running north to the Tyner Valley Aquifer incised into the Lea Park Formation (AMEC, 2002). Water enters the greater Tyner Valley Aquifer system by vertical filtration downward through the glacial deposits to the Oldman Formation and the Tyner Valley Aquifer where flow lines refract to the horizontal plane due to difference in average permeability (Christiansen, 1970). Although the observed flow pattern is a gravitational flow system, the arrangement of the flow pattern is determined by the location of continuous and more permeable flow paths that are distinct from present surface topography (Christiansen, 1970). In the Maple Grove area, regional groundwater flow within near-surface sand and gravel is expected to flow southeast toward the South Saskatchewan River (AMEC, 2002).

The close adjacency of the South Saskatchewan River intricately informs the hydrological regime and successional landscape of the Maple Grove site. Meandering river channel dynamics and recurring processes of erosion, channel widening, and sedimentary deposition have altered the composition and profile of the site through the formation of Yorath Island and the ever-fluctuating eastern riverbank boundary. The West Swale complex, a remnant glacial channel scar supporting a diverse ecological matrix of wetlands, runs diagonally northwest to southeast through the broader northwesterly region surrounding the Maple Grove site (Figure 9). The West Swale network exits into the South Saskatchewan River at an unknown location somewhere in the southwest portion of the Maple Grove property (Figure 9).



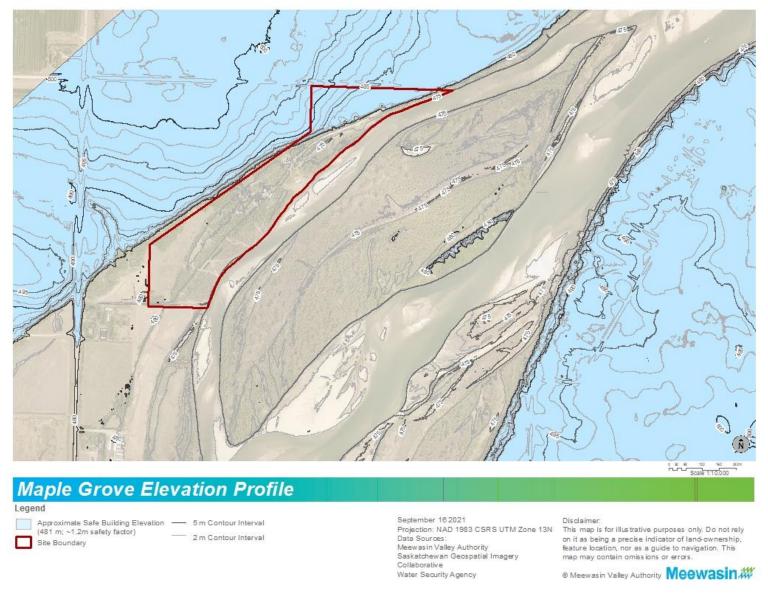


Figure 6. Maple Grove Site Elevation Profile

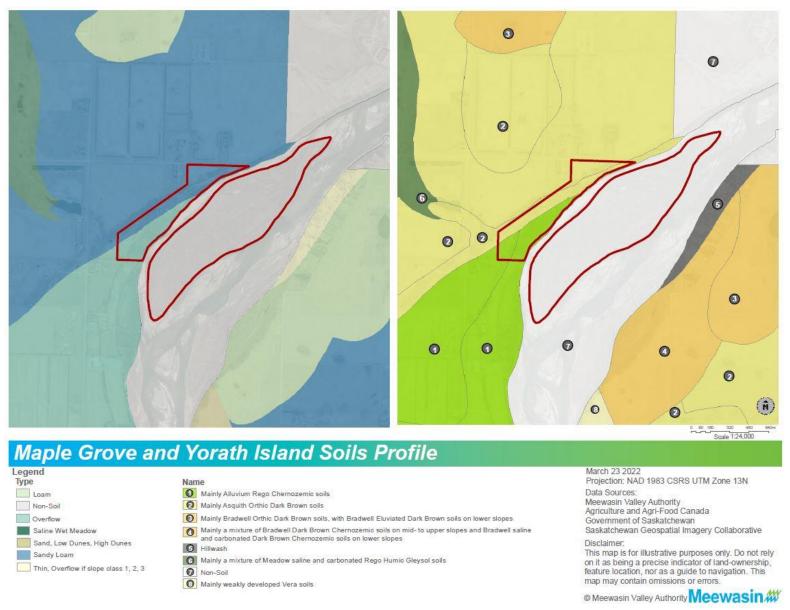


Figure 7. Maple Grove and Yorath Island Soils Profile

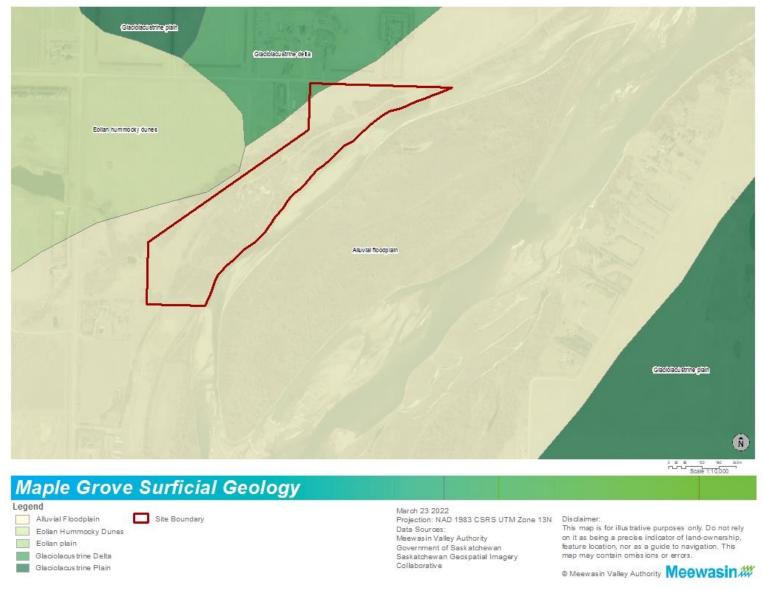


Figure 8. Maple Grove Site Surficial Geology Profile

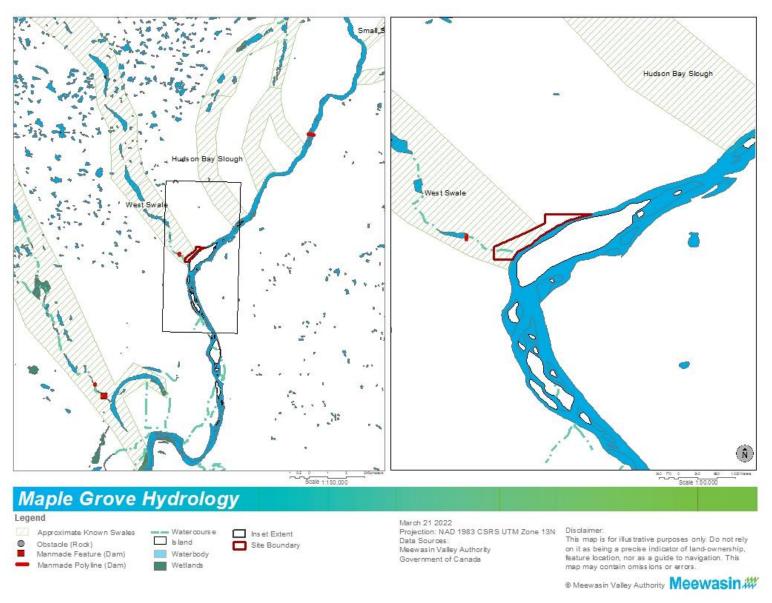


Figure 9. Maple Grove Site Hydrology Overview

# 4.0 Maple Grove Baseline Inventory Research

#### 4.1 Baseline Data Collection

### 4.1.1 Desktop Research

Section 5.0 includes a comprehensive inventory of data sources, reports, and documents that provided relevant background information and discussion material for this report. The data reference section provides an inventory of information sources for various baseline desktop analysis activities including, but not limited to, spatial mapping, regional data aggregation and comparative trend analysis. A summary of relevant historic and contemporary survey research and field studies that were referenced and conducted externally or prior to the baseline report drafting is located in Appendix B-IV and additional Meewasin figures and historic site background materials are located in Appendix A-I and A-IV respectively.

#### 4.1.2 Baseline Data Collection

The following table is an inventory of all survey assessment and data collection activities conducted in relation to the Maple Grove baseline inventory project. This inventory table provides informative summaries of baseline survey methods with additional detail surrounding timing and duration of survey activities, targeted survey features, and organizational leads. Baseline data collection methods will be discussed in more detail in subsequent report sections.





Table 4. Maple Grove Baseline Survey Activities

Table 4. Map	ne Grove Daser	ine Survey Activities				
Date(s)	Survey Type	Targeted Features	Methods	Duration	Lead Organization( s)	Comments/Limitations
11/12/2019 11/13/2019 11/14/ 2019	Topographic infrastructure survey	Infrastructure and structural amenities, trees, roadways, elevations, property pins, fence lines, water flow culvert inverts, vegetation edges	RTK GPS, Total Station device	3 day survey	Meewasin	Survey data and documentation uploaded to Meewasin database and used in site / spatial data mapping. Data catalogued and mapped in section 2.3. Survey conducted in winter during a period of site structural change.
7/15/2020	Ad hoc bird survey	Bird species presence & abundance	Visual & auditory observation	Unknown	Meewasin	Observations documented and uploaded to eBird database.
08/22/2020	Ad hoc bird survey	Bird species presence & abundance	Visual & auditory observation	Unknown	Saskatoon Nature Society (Stan Shadick)	Observations uploaded to eBird database.
12/2/2020	Ad hoc wildlife snow track survey	General wildlife species presence & abundance	Visual observations	1.5 hours	Meewasin	Observations documented; snow conditions not ideal for wildlife track identification.
04/23/2020	Ad hoc Owl survey	Northern Saw-whet Owl species presence	Auditory observations; bird call playback	0.5 hours	Meewasin; Saskatoon Nature Society (Stan Shadick)	One audial response observed; Shadick noted potential for breeding.
05/15/2020	Ad hoc tree cavity survey	Northern Saw-whet Owl species presence	Visual & auditory observation	1.0 hours	Meewasin; Saskatoon Nature Society (Stan Shadick)	*Follow-up to previous 04/23/2020 Saw-whet Owl survey. Surveyors returned to Maple Grove site daylight hours to detect Saw-whet Owl nesting presence. No sightings observed.
05/20/2021	Ad hoc tree cavity survey	Northern Saw-whet Owl species presence	Visual & auditory observation;	1.0 hours	Meewasin	Tree cavity survey at Maple Grove site to detect Saw-whet Owl nesting presence. No sightings observed.
05/22/2021	Ad hoc bird survey	Bird species presence & abundance	Visual & auditory observation	Unknown	Saskatoon Nature Society (Stan Shadick)	Observations uploaded to eBird database (05/25/2021).
6/2/2021	Breeding bird survey	Bird species presence & abundance	Point count method; visual & auditory observation	2.0 hours	Meewasin	Entire property length covered; point count locations taken intermittently at representative site areas (hayfields, roadway, riparian forest, riverbank, trailer court) and monitoring posts.

6/16/2021	Soil assessment; ad hoc forest vegetation inventory	Soil texture; CSSC classification; laboratory analysis of soil sample composition (including variables: pH, SOM, P, K, N, Mg, Ca); forest vegetation presence & height	In-situ CSSC soil pit classification; soil probe sample collection (15 probe sample locations along transect grid design taken at 0-6 cm and 6-12 cm depth); ad hoc vegetation survey conducted in forested areas across site	6.0 hours	University of Saskatchewan SENS Program; Meewasin	Survey activities led by University of Saskatchewan graduate student Lynnae Ylioja and project advisor Dr. Vladimir Kricsfalusy, in connection to the Masters of Sustainability graduate studies program offered through the USask School of Environment and Sustainability. All available results documented from 06/10/2021 survey activities have been submitted to Meewasin in the form of a project report written by Lynnae Ylioja  Soil pit analysis and soil probe sample collection were performed in the south hayfield area. Site vegetation inventory was conducted by Dr. Kricsfalusy, with survey effort focused on forested areas throughout the Maple Grove site. *Note collected soil probe samples went unprocessed due to COVID-related laboratory limitations.
6/23/2021	Ad hoc bat survey	Ultrasonic detection, presence & abundance	Bioacoustic recording device with ultrasonic detection & interpretation technology; audial & visual observations	2.0 hours	Meewasin	Night survey conducted with readings taken at intermittent points across site. Survey team traversing along established grid roads and nature paths. Observations made using the Echo Meter Touch 2, associated bioacoustic technology and software. Species inventory documented in Appendix B-III.
7/16/2021	Shoreline survey	Invasive plant species in shoreline region; Northern Leopard Frogs; presence & abundance; GPS locations	Shoreline survey transect; visual observations noted; GPS locations recorded	3.0 hours	Meewasin	Survey crew conducted a linear transect along the shoreline from NE to SW of the property along the west bank of the South Saskatchewan River. GPS location data captured for observations.

7/20/2021	Invasive plant survey – rangeland and forest	Invasive plant species in hayfield & forested areas; Presence & abundance; GPS locations	Site divided into 50 meter grid sections; survey team traversed diagonally through each of the 50 meter grid sections to document occurrences of invasive species in rangeland and forested areas across site; GPS locations recorded	3.5 hours	Meewasin	7/20/2021 survey focused on 50 meter grid section located in hayfield / rangeland regions. The following grid sections were visited: I11, I9, I8, I7, H7, D3, C2, C1, B1, B2, A2.
7/21/2021	Invasive plant survey – rangeland and forest	Invasive plant species in hayfield & forested areas; Presence & abundance; GPS locations	Site divided into 50 meter grid sections; survey team traversed diagonally through each of the 50 meter grid sections to document occurrences of invasive species in rangeland and forested areas across site; GPS locations recorded	4.0 hours	Meewasin	07/21/2021 survey team conducted diagonal transect across the property moving SW to NE through grid sections in forested areas, using monitoring plot locations as a reference point. The following grid section / plot locations were visited: A1, A2, A3, B2, B3, C3, C4, D3, D4, D5, E5, E6, F6, G7, G8, H8, H9.  Permanent plot #s: 1, 2, 3, 5.
7/28/2021	Invasive plant survey – rangeland and forest	Invasive plant species in hayfield & forested areas; Presence & abundance; GPS locations	Site divided into 50 meter grid sections; survey team traversed diagonally through each of the 50 meter grid sections to document occurrences of invasive species in rangeland and forested areas across site; GPS locations recorded.	2.5 hours	Meewasin	07/28/2021 survey team continued diagonal forested area transect across the property moving SW to NE through grid sections in forested areas. The following grid sections / plot locations were observed: I12, H10, H9, F7, G8, G6, F4, E3, D2, A1. Permanent Plot #: 4.

8/18/2021	Ad hoc bat survey	Ultrasonic detection, presence & abundance	Bioacoustic recording device with ultrasonic detection & interpretation technology; audial & visual observations	3.0 hours	Meewasin	Night surveys conducted with readings taken at intermittent points across site. Survey team traversing along established grid roads and nature paths. Observations made using the Echo Meter Touch 2, associated bioacoustic technology and software. Inventory found in Appendix B-III.
9/8/2021	Warbler Hike (ad hoc bird survey)	Bird species presence & abundance	Visual & auditory observation	3.5 hours	Saskatoon Nature Society (Stan Shadick); Meewasin	Saskatoon Nature Society members hike – focus on warbler bird species. Observations uploaded to Ebird
9/28/2021	Riparian health assessment / shoreline survey	Vegetative composition; presence & abundance	Riparian Health Assessment (form) – linear transect along west bank shoreline; GPS locations taken	5.5 hours	Meewasin	Riparian health assessment conducted along west bank shoreline of mainland Maple Grove property. Survey team traversed from NE to SW along shoreline. Data sheets found in Appendix B-II.
9/29/2021	Forest health assessment / forest vegetation survey	Vegetative composition; presence & abundance	Forest health assessments (forms) – conducted at forested permanent plot locations; GPS points taken	5.5 hours	Meewasin	Forest health assessments conducted at each permanent plot location within forested regions on Maple Grove Site. Survey team moving in transect diagonally from SW to NE along monitoring post route. 5 assessments conducted at each of 5 perm plots (#1-5). Data sheets found in Appendix B-II.
10/04/2020	Ad hoc bat survey	Ultrasonic detection, presence & abundance	Bioacoustic recording device with ultrasonic detection & interpretation technology; audial & visual observations	2.0 hours	Meewasin	Night surveys conducted with readings taken at intermittent points across site. Survey team traversing along established grid roads and nature paths. Observations made using the Echo Meter Touch 2, associated bioacoustic technology and software. Inventory found in Appendix B-II.
11/6/2021	Rangeland health assessment / rangeland vegetation survey	Vegetative composition; presence & abundance	Rangeland health assessments (form) - transects & quadrats; GPS points taken	4.5 hours	Meewasin	Rangeland health assessment process conducted in hayfield areas (two hayfields) on Maple Grove property. Survey team travelled along diagonal transects in hayfield areas - conducting a total of 5 rangeland assessment quadrats at each hayfield location (10 total). Data sheets found in Appendix B-II.

## 4.2 Baseline Monitoring and Assessment Methods

### 4.2.1 Permanent Post Monitoring Design

The figure below illustrates the monitoring design established across the Maple Grove site during the spring of 2020 through the installation of a series of five permanent monitoring posts. Each of five permanent plot locations represent the centroid point of a 100-metre radius area. These locations have been physically marked on the landscape with a numbered wooden fence post that will serve as the repeat location for ongoing site monitoring activities such as the positioning of passive monitoring devices, ecological assessments, and surveys. Installation and monitoring at permanent plot number three, which is intended to be positioned within the trailer court area, was postponed during the baseline inventory process with respect for the privacy of trailer court residents (Figure 10).

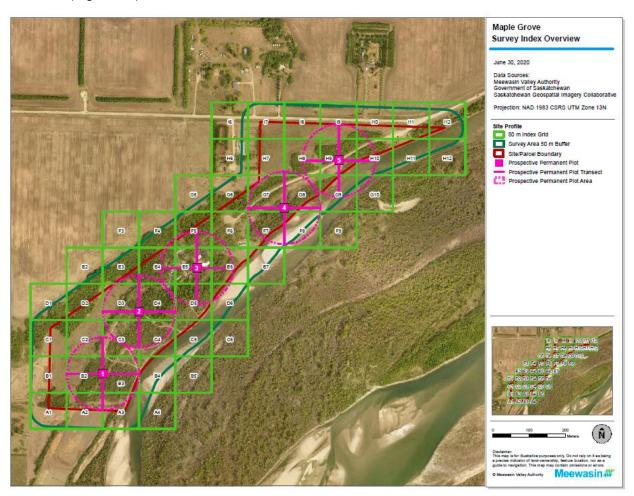


Figure 10. Maple Grove Site Grid Index Map

Figure 10 includes monitoring post centroid positions with an overlain fifty-metre grid system. This grid system was referenced throughout the baseline survey process as a basis for survey routes and the collection of observational data across the Maple Grove site region.



### 4.2.2 Ecological Health Assessments

Ecological health assessment surveying methods were applied across the Maple Grove site in accordance with the provincial guidelines for Grassland Range Health, Forested Rangeland Health, and Riparian Health assessment methods published by the Saskatchewan Prairie Conservation Action Plan (PCAP). The respective health assessment processes provided a visual-based qualitative description of vegetative cover and perceived health condition. This survey method was utilized as a confirmatory exercise, applied in conjunction with a variety of rapid site vegetative profile surveys. This contemporary vegetation community data supplemented the comprehensive vegetation survey data reported by Luc Delanoy of Meewasin in 2000. The entire collection of field data worksheets for the rangeland, forest, and riparian health assessments can be located in Appendix B-II. The figure below illustrates the general locations where the vegetation health surveys were conducted.



Figure 11. Maple Grove 2021 Health Assessment Locations

#### 4.2.3 Invasive Species Monitoring

The documentation of invasive plant species and noxious weeds across the Maple Grove is a focal area of data collection at the Maple Grove property. This area of research was advanced during the baseline inventory project through targeted invasive plant surveying exercises and repeated invasive patch monitoring efforts. Meewasin staff conducted rapid surveys targeting the presence of invasive species across all site regions including forest plant communities, floodplain areas, riverbank reaches, and remnant hayfield areas. The Maple Grove grid index system (Figure 10) was utilized in conducting rapid vegetation surveys with each 50 metre grid cell serving as a signpost system for rapid site survey routes. Targeted rapid vegetation survey data was combined with data produced through the previous intensive Maple Grove vegetation survey reported by Meewasin in 2000 to create an invasive plant inventory and profile of the distribution of invasive plant species across Maple Grove.

#### 4.2.4 Wildlife Monitoring

#### **Wildlife Survey Efforts**

Maple Grove wildlife communities were surveyed using visual and audial identification and technological monitoring equipment to document the presence, diversity, and abundance of species. Wildlife monitoring initiatives focused primarily on the presence of birds, bats, frogs, and mammals. Meewasin conducted a series of nine bird surveys during seasons of heightened activity to assess bird populations, behaviors, and uses in relation to the Maple Grove site with particular attention paid to breeding habits, migratory patterns, and species at risk habitat. Meewasin conducted additional targeted survey efforts aimed at the detection of specific species such as the Saw-whet Owl and cavity nesting species, shoreline Northern Leopard Frog surveys, and evening bat surveys. Wildlife survey routes were organized and traversed on an ad hoc basis with emphasis on forested areas and active breeding and migration seasonal windows. Additionally, passive and active monitoring technologies were deployed and utilized to supplement wildlife species observations across the Maple Grove site.

#### **Autonomous Recording Data Capture Devices**

Autonomous Recording Unit (ARU) technology was used throughout the baseline inventory data collection process to supplement survey datasets with audial and visual documentation of fauna on site. ARUs are self-contained, passive recording devices designed to capture data pertaining to bioacoustics. ARU devices used during this project included: the Wildlife Acoustics Song Meter SM3BAT, Browning Dark OPS HD 26LC wildlife camera units, and the Wildlife Acoustics Echo Meter Touch 2 ultrasonic acoustic recording device. ARU device positions contributing to the capture of Maple Grove baseline data are illustrated below in Figure 12. Individual ARU device deployment is summarized in Table 6 and ARU data collection records associated species observations are located in Appendix B-III.

Four wildlife cameras units (model Browning Dark OPS HD 26LC) were installed in stationary positions across the Maple Grove site in the spring of 2020 (Figure 12). Wildlife camera devices



are pre-set to capture images triggered by motion occurring within an 80-foot range of the camera. Cameras are set to capture imagery in a series of three rapid shots with zero seconds of delay from triggering motion. There are periodic gaps in photos due to irregular checking of cameras, resulting in full camera cards, depleted batteries, and technological malfunctions caused by extreme weather conditions.

The Acoustic Song Meter SM3 device was used for the passive capture of wildlife vocalizations. During the data collection period the SM3 device was rotated between four separate site locations to capture audial acoustic recordings on six-hour daily intervals (Figure 12). Bat surveys were conducted using the Echo Meter Touch 2 which is a handheld ultrasonic autonomous recording capture device unit. The Echo Meter enabled the identification of bat species using echolocation translation software. Bat surveys were conducted at night using the Echo Meter with survey routes targeting various forested locations across the Maple Grove site.



Figure 12. Maple Grove Baseline Stationary Data Capture Devices

Table 5. Maple Grove Baseline Autonomous Recording Device Inventory

Table 5. Maple Grove Baseline Autonomous Recording Device Inventory					
ARU Type	Make / Model	Timeframe	Position	Data Capture Setting	
Autonomous Acoustic Recording Unit	Acoustic Song Meter SM3	Installation: 06/15/2021 Removal: 06/28/2021	Southwest hayfield	Device set to record 6 hours daily  – 3 hours around sunrise and 3 hours around sunset.	
Autonomous Acoustic Recording Unit	Acoustic Song Meter SM3	Installation: 06/02/2021 Removal: 06/14/2021	Permanent post No. 1 (MG-P1)	Device set to record 6 hours daily  – 3 hours around sunrise and 3 hours around sunset.	
Autonomous Acoustic Recording Unit	Acoustic Song Meter SM3	Installation: 05/19/2021 Removal: 05/25/2021	Permanent post No. 2 (MG-P2)	Device set to record 6 hours daily  – 3 hours around sunrise and 3 hours around sunset.	
Autonomous Acoustic Recording Unit	Acoustic Song Meter SM3	Installation: 05/26/2021 Removal: 06/01/2021	Permanent post No. 4 (MG-P4)	Device set to record 6 hours daily  – 3 hours around sunrise and 3 hours around sunset.	
Wildlife Camera	Browning Dark OPS HD 26LC	Installation: spring of 2020 – device remaining stationary	Southwest riparian floodplain area	Motion-triggered image capture within 80 feet of camera; 3 photos captured per motion trigger with a zero second delay of triggering.	
Wildlife Camera	Browning Dark OPS HD 26LC	Installation: spring of 2020 – device remaining stationary	Southwest hayfield margin	Motion-triggered image capture within 80 feet of camera; 3 photos captured per motion trigger with a zero second delay of triggering.	
Wildlife Camera	Browning Dark OPS HD 26LC	Installation: spring of 2020 – device remaining stationary	Permanent post No. 4 (MG-P4)	Motion-triggered image capture within 80 feet of camera; 3 photos captured per motion trigger with a zero second delay of triggering.	
Wildlife Camera	Browning Dark OPS HD 26LC	Installation: spring of 2020 – device remaining stationary	Northeast upland forested area, roadway and hayfield	Motion-triggered image capture within 80 feet of camera; 3 photos captured per motion trigger with a zero second delay of triggering.	
Ultrasonic Autonomous Recording & Capture Device	Echo Meter Touch 2 Ultrasonic Model	Survey Dates (duration): 06/23/2021 (2 hours) 08/18/2021 (3 hours) 10/04/2021 (2 hours)	Non- stationary handheld device	Ultrasonic detection software actively recording and identifying bat vocalizations in areas traversed with handheld device.	

## 4.3 Baseline Data Observations

#### 4.3.1 Wildlife Observations

The wildlife cameras captured eight species of mammals: White-tailed Deer (*Odocoileus virginianus*), Mule Deer (*Odocoileus hemionus*), Moose (*Alces alces*), Snowshoe Hare (*Lepus americanus*), Striped Skunk (*Mephitis mephitis*), Coyote (*Canus latrans*), Red Fox (*Vulpes vulpes*), and North American Porcupine (*Erethizon dorsatum*). Other lifeforms caught on wildlife camera included various insects and bird species captured at a lesser rate. Wildlife camera record inventory tables are located in Appendix B-III.

72 bird species have been identified and documented at the Maple Grove site. A total of 34 bird species (and one frog species) were captured on the Acoustic Song Meter SM3 device. The SM3 device was actively recording on the Maple Grove site between mid-May to the end of June 2021.



Four bat species were identified at the Maple Grove site using the Echo Meter 2 device. Identified bat species included: Little Brown Bat (*Myotis lucifugus*), Big Brown Bat (*Eptesicus fuscus*), Silverhaired Bat (*Lasionycteris noctivagans*) and Hoary Bat (*Lasiurus cinereus*). Comprehensive acoustic capture records are located in Appendix B- III.

A comprehensive inventory table of wildlife species observations documented at Maple Grove is located in Appendix B-I.

## 4.3.2 Vegetation Pattern Observations

#### **Rangeland Plant Community Health**

Rangeland health is an evaluation of the ability of a rangeland ecosystem to perform certain key functions (PCAP, 2008a). Functional variables of healthy rangeland ecosystems include productivity, site stability, capture and slow release of water, nutrient cycling, and plant species diversity (PCAP, 2008a). The Rangeland Health Assessment process evaluates rangeland ecosystem functionality based on a holistic set of relational criterion. Indicators include species composition, community structure, invasive species, site stability, and hydrologic function and soil protection (PCAP, 2008a).

A series of ten rangeland health assessments were conducted in the late fall of 2021. These assessments were distributed along a diagonal transect spanning across the two historic hayfields at the Maple Grove site. Table 7 summarizes the results of grassland range health assessments performed in the remnant hayfield areas at Maple Grove.

Table 6. Summary of 2021 Grassland Range Health Data Collected at Maple Grove

Range Health Quadrat ID	Remnant Hayfield Position	Reference Community Code	Section A (Vegetation Status /60)	Section B (Hydrology & Soil /40)	Total Score (/100)	Summary Range Health Rating
MG-RHA-Q01	NE	MG-LM-G	14	40	54	Healthy with Problems
MG-RHA-Q02	NE	AP-LM-B	10	35	45	Unhealthy
MG-RHA-Q03	NE	MG-LM-G	14	37	51	Healthy with Problems
MG-RHA-Q04	NE	MG-LM-G	14	35	49	Unhealthy
MG-RHA-Q05	NE	MG-LM-G	10	40	50	Healthy with Problems
MG-RHA-Q06	SW	PEZ-SUB-B	14	40	54	Healthy with Problems
MG-RHA-Q07	SW	PEZ-SUB-B	14	40	54	Healthy with Problems
MG-RHA-Q08	SW	PEZ-SUB-B	14	40	54	Healthy with Problems
MG-RHA-Q09	SW	PEZ-SUB-B	17	40	57	Healthy with Problems
MG-RHA-Q10	SW	PEZ-SUB-B	14	40	54	Healthy with Problems
Mean Score Results		13.5	38.7	52.2	Healthy with Problems	

Five rangeland health assessments were conducted in each of the hayfield units with quadrats thrown in areas representing distinct vegetative changes. Reference communities selected for this process included the following Saskatchewan Rangeland Ecosite Reference Communities: Mixed Grassland Loam Ecosite G (Crested Wheatgrass – Native grasses), Aspen Parkland Loam Ecosite B (Western Porcupine Grass – Northern Wheatgrass – Sedge – Pasture Sage), and Prairie Ecozone Sub-irrigated and Overflow Ecosite B (Smooth Brome). These reference communities are described in Table 8 below. Grassland range health assessment field data is located in Appendix B-II.

Table 7. Summary of Maple Grove Rangeland Ecosite Reference Communities

Ecozone: Ecosite	Reference Community (Code)	Count	General Description Summary
Mixed Grassland: Loam Ecosite	Crested Wheat- grass – Native grasses (MG-LM-G)	4	Grasslands dominated by exotic grasses. Interpreted as showing severe alteration from the reference community as a result of exotic invasion, often adjacent to seeded forage stands. This community represents one end of a continuum, stating with native grasslands with a few scattered Crested Wheatgrass ( <i>Agropyron cristatum ssp. pectinatum</i> ) plants, and ending with stands dominated by Crested Wheatgrass. (Thorpe, 2014b)
Aspen Parkland: Loam Ecosite	Western Porcupine- grass – Northern Wheatgrass – Sedge – Pasture Sage (AP-LM-B)	1	Mixed prairie dominated by mid-grasses, with significant amounts of short-grasses and lesser amounts of half-shrubs and forbs. Shrub cover low in many of the sampled areas, but absence of disturbances such as fire can lead to expansion of snowberry ( <i>Symphoricarpos spp.</i> ) cover. Probably develops from AP-LM-A by decrease in Rough Fescue ( <i>Festuca hallii</i> ) and increase in Western Porcupine Grass ( <i>Hesperostipa curtiseta</i> ), Northern Wheatgrass ( <i>Elymus lanceolatus ssp. lanceolatus</i> ), June Grass ( <i>Koeleria macrantha</i> ), and Pasture Sage ( <i>Artemisia frigida</i> ). Interpreted as showing moderate alteration from the reference community as a result of grazing impact. (Thorpe, 2014b)
Prairie Ecozone: Sub-irrigated and Overflow Ecosites	Smooth Brome (PEZ-SUB-B)	5	This community represents grassland dominated by Smooth Brome ( <i>Bromus inermis</i> ), on the sub-irrigated and overflow ecosites. Note that this community does not include Smooth Brome stands on upland ecosites. This community is interpreted as showing severe alteration from the reference community as a result of heavy grazing impact coupled with exotic invasion. Smooth Brome invades aggressively into native communities, usually spreading from disturbed sources such as road ditches or tame pasture. It is particularly aggressive on overflow and sub-irrigated ecosites where it is favoured by moisture availability and may be restricted to these ecosites in the drier climates of the mixed grassland and dry mixed grassland. There is a wide range in Smooth Brome abundance, from native grassland with a few patches of brome to nearly complete brome domination as in the description here. (Thorpe, 2014c)

<sup>\*\*</sup>Table information retrieved and summarized from Thorpe, 2014(b) and Thorpe, 2014(c) in the Saskatchewan Rangeland Ecosystems Publications Volumes 4 and 12.

Range health assessments conducted across the remnant hayfield areas provided indication that the overall rangeland ecosystem status at Maple Grove is "healthy with problems". Range health scores (out of 100 potential marks) ranged from 49 to 57 with a median score of 54 and an average score of 52.2. The overall vegetation status assessment portion of the range health surveys indicated that the hayfield areas have seen significant alteration from the composition of their associated reference communities. Disturbance impact was observed to be very heavy these



areas due to a disruption in natural disturbance cycles and there was a moderate to high distribution of invasive species observed across the rangeland areas.

Dominant plant community species observed within the remnant hayfield areas included a high percentage of invasive grasses such as Crested Wheatgrass (Agropyron cristatum ssp. pectinatum), Smooth Brome and Kentucky Blue Grass (Poa pratensis). Invasive forb species such as Alfalfa (Medicago sativa ssp. sativa), Canada Thistle (Cirsium arvense), and Common Dandelion (Taraxacum officinale ssp. officinale) were also commonly present. The shrub species Western Snowberry (Symphoricarpos occidentalis) was the most abundant shrub species with higher concentrations noted along forest margins and upland transitional areas bordering the hayfield plant communities. Forb species such as Northern Bedstraw (Galium boreale), Vetch (Astragalus sp.), and Smooth Blue Aster (Symphootrichum leave var. geyeri) were documented amongst the forb community layer. Vegetation status scores (out of 60) ranged from 10 to 17 with a median score of 14 and average score of 13.5. The vegetation section scores were consistently lower in the range health process, resulting from observed reference community alteration, absence of expected plant community layers, and presence of invasive species. The hydrologic function and soil protection section of the range health surveys revealed very little erosion in the hayfield areas with high amounts of litter buildup present. Hydrologic function and soil protection scores (out of 40) ranged from 35 to 40 with a median score of 40 and an average score of 38.7.

#### **Forested Plant Community Health**

Forested range health assessments were conducted in the fall of 2021 across the Maple Grove site near each of the five permanent monitoring plot locations. The lineation of monitoring plots was used as a transect route across the site, with forest health assessment conducted in broadly representative forested areas with particular attention on characteristic vegetative regime shifts. The Saskatchewan forest range health assessment indicator method was selected to address the vegetation status, hydrologic function and soil protection within forested plant communities and provide an overall forest range health score. Results from the forest health assessments are summarized below in Table 9.

The dominant reference community used in the forest health assessment process was the Aspen Parkland Ecozone Moist Ecosite C (Balsam Poplar – Aspen / Willow – River Birch) (referred to as AP-MO-C). AP-MO-C is described as a grazed community found in open poplar stands with a distinct tall shrub layer with relatively low abundance of decreaser species (Thorpe & Godwin, 2008).

Table 8. Summary of 2021 Forest Health Data Collected at Maple Grove

Forest Health Plot ID	Reference Community Code	Section A (Vegetation Status /70)	Section B (Hydrology & Soil /30)	Total Score (/100)	Final Range Health Rating
MG-FHA-01	AP-MO-C	40	28	68	Healthy with Problems
MG-FHA-02	AP-MO-C	40	30	70	Healthy with Problems
MG-FHA-03	AP-MC-O	20	30	50	Healthy with Problems
MG-FHA-04	AP-MC-O	20	30	50	Healthy with Problems
MG-FHA-05	AP-MC-O	40	25	65	Healthy with Problems
Mean Score Results		32	28.6	60.6	Healthy with Problems



Dominant plant community species observed across Maple Grove forested areas included invasive grasses such as Smooth Brome, Quackgrass (*Thinopyrum intermedium*), and Western Wheatgrass (*Agropyron trachycaulum*). Dominant forb species included Bearberry (*Arctostaphylos uva-ursi*), Goldenrod (*Solidago spp.*), Aster (*Asteraceae*), Northern Bedstraw, and Vetch species as well as coverage of invasive forbs such as Canada Thistle, Sweet Clover (*Melilotus spp.*), Common Dandelion, and Asparagus (*Asparagus officinalis*). Dominant shrub species included Rose (*Rosa spp.*), Western Snowberry, Red-osier Dogwood (*Cornus sericea*), High Bush-cranberry (*Viburnus opulus var. americanum*), Willow species (*Salix spp.*), Wolf Willow (*Elaeagnus commutata*), Chokecherry (*Prunus virginiana*), Saskatoon (*Amelanchier alnifolia var. alnifolia*), and high coverage of the invasive European Buckthorn. Balsam poplar trees (*Populus balsamifera*) were the most abundant canopy species recorded.

Scores received through the forest health assessments indicated that general health status of forested regions across the site falls within the "healthy with problems" range. Overall forest range health scores (out of 100 potential marks) ranged from 50 to 70 with an average score of 60.6. Vegetation status scores (out of 70 marks) ranged from 20 to 40 with an average score of 32. Vegetation status section scores indicated minor to moderate shifting away from reference plant community with less abundance in decreaser species. Invasive species were present with more than 1% coverage at each assessment point and European Buckthorn was highlighted as a problem species with broad coverage across the site. Hydrologic function and soil protection scores (out of 30 marks) ranged from 25 to 30 with an average score of 28.6. The scoring results revealed some to little soil erosion with mostly non-compacted soil. Some compaction was noted in areas with trail systems and travelled wildlife routes. Full forest range health assessment survey data forms may be found in Appendix B-II.

#### **Riparian Plant Community Health**

Riparian health assessment surveys were conducted across the eastern Maple Grove site boundary along the riverbank riparian area along two reach segments. The riparian zone refers to the transitional area between the river water and the surrounding terrestrial area (PCAP, 2008b). Riparian health assessments are a standard method of rapidly assessing and estimating the current health status of riparian areas and advancing the identification of the presence, scale, and magnitude of issues (PCAP, 2008b). The entire eastern property line, which runs directly adjacent to the South Saskatchewan River, was surveyed through this process in a linear fashion from the northern point of the site boundary to the southern point of the site boundary along the riparian riverbank property edge. Riparian health results are summarized in the table below.

Table 9. Summary of 2021 Riparian Health Data Collected at Maple Grove

Riparian Reach No.	Total Score Awarded	Potential Score	Overall Percentage	Riparian Health Rating
MG-01	48	63	76%	Healthy with Problems
MG-02	46	63	73%	Healthy with Problems

Overall riparian health scores for the area were estimated at 73% which falls within the low range of the 'healthy' threshold and highest end of the 'healthy with problems' evaluative spectrum. Riparian survey results generally found vegetation coverage to be 85-95% with a total invasive species canopy cover of less than 1%. Within the riparian area, there was high evidence of



streambank erosion observed with a reported 15-35% of the reach displaying active lateral cutting. It was estimated that 5-15% of the reach has been physically altered by human activity, most notably the presence of trail systems and property access points forged along the rivers' edge.

#### 4.3.3 Rare Species Observations

Significant species observed on the Maple Grove site are documented in Table 11 below. Columns reflect provincial, federal, and international assessments of conservation status. The 'G-Rank' and 'S-Rank' columns align with provincial conservation status ranks assigned through the Conservation Data Centre (CDC). CDC rankings were designed by The Nature Conservancy and reflect the at-risk status of significant species applied at various geographical scales. The 'G-Rank' column refers to the global assessment assigned by national and international conservation authorities. The 'S-Rank' column refers to subnational ranks assigned and maintained by regional or provincial Conservation Data Centre branches. Within these CDC ranking columns, geographical prefix codes (G or S) indicate the spatial level at which the status rank has been applied. Modifier codes (number or letter characters proceeding the status rank letter) reflect the associated severity of risk associated with the species listed.

The 'COSEWIC' column provides associated designation from The Committee on the Status of Endangered Wildlife in Canada (COSEWIC) ranking system which provides an indication of the risk of extinction associated with endangered wildlife species. The 'SARA Schedule' column provides status assessment information listed in the federal species at risk public registry associated with the Species at Risk Act (SARA).

Table 11 provides an inventory of significant species observations documented in the general vicinity of the Maple Grove site. This range or 'study area' includes observations made on the adjacent Yorath Island site and areas directly bordering the site. The location column indicates where the species observations have occurred. Within the location column, 'MG' refers to observations documented directly on the Maple Grove site and 'OOR' denotes observations made outside of the Maple Grove site boundary, within a relatively close geographical region. These proximal observations are included to acknowledge that additional species may have the potential to inhabit the site. Species identified within this table hold special significance due to the concerns associated with their conservation status. Each of the species listed have associated COSEWIC provincial rarity rankings from special concern to endangered status. The S-Rank status of some species is affected by life cycle stages such as migration and breeding, meaning that time of year impacts the ranking associated with particular species (noted in the notes section). Species included within this table have been observed directly by Meewasin or confirmed through provincial and citizen science databases.

Table 10 Significant Species Observations Documented in the Manle Grove Area

Scientific Name	Common Name	Global Rank	Subnational	COSEWIC	SARA		ation*	Notes
Scientific Name	Common Name	(G-Rank)	Rank (S-Rank)	Status	Schedule	MG	OOR	Notes
AMPHIBIANS								
Lithobates pipiens	Northern Leopard Frog	G5	S3	Special Concern	Special Concern	Х		
BIRDS								
Accipiter cooperii	Cooper's Hawk	G5	S4B,S2N,S2M	Not at Risk			Х	Migration - OOR
Accipiter gentilis	Northern Goshawk	G5T5	S4B,S3N	Not at Risk			Х	Non-Breeding - OOR
Aechmophorus occidentalis	Western Grebe	G5	S3B	Special Concern	Special Concern		Х	Breeding Window - OOR
Aegolius acadicus	Northern Saw-whet Owl	G5	S5B, S4N			Х		
Anthus spragueii	Sprague's Pipit	G3G4	S3B	Threatened	Threatened		Х	Breeding Window - OOR
Aquila chrysaetos	Golden Eagle	G5	S3B,S3N,S4M	Not at Risk			Х	Breeding Window - OOR
Asio flammeus	Short-eared Owl	G5	S3B,S2N	Threatened	Special Concern		Х	Breeding Window - OOR
Buteo platypterus	Broad-winged Hawk	G5	S4B,S3M				Х	Migration - OOR
Buteo regalis	Ferruginous Hawk	G4	S3B	Special Concern	Threatened	Х		Non-Breeding
Cardellina canadensis	Canada Warbler	G5	S4B,S3M	Special Concern	Threatened	Х		Birds of Saskatoon say most sightings are in the Fall; no Fall migration window given - OOR
Cathartes aura	Turkey Vulture	G5	S3B			Х		Breeding Window
Centronyx bairdii	Baird's Sparrow	G4	S4B	Special Concern	Special Concern		Х	Historical - OOR
Chordeiles minor	Common Nighthawk	G5	S4B	Special Concern	Threatened	Х		
Contopus cooperi	Olive-sided Flycatcher	G4	S4B	Special Concern	Threatened		Х	OOR
Cygnus buccinator	Trumpeter Swan	G4	S3B	Not at Risk			Х	Breeding Window - OOR
Dolichonyx oryzivorus	Bobolink	G5	S5B	Special Concern	Threatened		Х	OOR
Dryocopus pileatus	Pileated Woodpecker	G5	S3				Х	Breeding Window - OOR

<sup>\*</sup> Location Column: 'MG' refers to observations documented directly on the Maple Grove site and 'OOR' denotes observations made outside of the Maple Grove site boundary, within a relatively close geographical region.



Euphagus carolinus	Rusty Blackbird	G4	S3B,SUN	Special	Special		Х	Migration Window - OOR
Grus americana	Whooping Crane	G1	SXB,S1M	Concern Endangered	Concern Endangered		Х	Migration - OOR
Hirundo rustica	Barn Swallow	G5	S4B	Special Concern	Threatened	Х		g.ao.
Hydroprogne caspia	Caspian Tern	G5	S2B	Not at Risk			Х	OOR
Lanius Iudovicianus	Loggerhead Shrike	G4T4	S3B	Threatened	Threatened		Х	Breeding Window - OOR
Melanerpes erythrocephalus	Red-headed Woodpecker	G5	S1B	Endangered	Endangered		Х	Breeding Window - OOR
Numenius americanus	Long-billed Curlew	G5	S3B	Special Concern	Special Concern		Х	Breeding Window - OOR
Pandion haliaetus	Osprey	G5	S3B				Х	Breeding Window - OOR
Riparia riparia	Bank Swallow	G5	S4B,S5M	Threatened	Threatened		Х	OOR
Tringa flavipes	Lesser Yellowlegs	G5	S4B	Threatened			Х	OOR
Zonotrichia querula	Harris's Sparrow	G5	SUB,S5M	Special Concern			Х	OOR
MAMMALS								
Myotis lucifugus	Little Brown Bat	G3	S4B,S4N	Endangered	Endangered	Х		
PLANTS								
Carex saximontana	Rocky Mountain Sedge	G5	S3				Х	Historical; large polys that are more centered on Saskatoon central, not MG site
Cypripedium parviflorum var makasin	Small Yellow Ladyslipper	G5T4T5	S3			Χ		
Elymus glaucus ssp. glaucus	Blue Wild Rye	G5T5	<b>S</b> 3				Х	Historical; large polys that are more centered on Saskatoon central, not MG site
Hierochloe odorata	Sweetgrass	G5T5	S4			Х		Noted as a culturally significant species
Potentilla rubricaulis	Red-stemmed Cinquefoil	G4G5	S3				Х	Historical; large polys that are more centered on Saskatoon central, not MG site

#### **Regionally Significant Species**

Maple Grove provides habitat for a number of culturally and ecologically important species in addition to the significant species listed above in Table 11. Many species observed at the Maple Grove site lack a provincial status ranking above S4 but are locally and regionally recognized for their cultural, social, and ecological significance.

Bats species are critically important within the prairie region due to their ecological significance. The general sensitivity to human-induced environmental changes renders bat populations as an excellent ecological indicator. In addition to the endangered Little Brown Bat species (*Myotis lucifugus*), three other bat species were identified on the Maple Grove site including: Big Brown Bat (*Eptesicus fuscus*), Silver-haired Bat (*Lasionycteris noctivagans*), and Hoary Bat (*Lasiurus cinereus*). Bat populations are being carefully monitored because of the continental presence of white-nose syndrome (caused by fungus *Pseudogymnoascus destructans*), which is considered to be one of the worst wildlife diseases in North America that has the potential to drastically reduce global bat population numbers (U.S. Fish & Wildlife, 2022).

The term 'keystone species' refers to particular species that are critical to the survival of other species in the ecosystem. Most cavity nesting species depend on the construction of a nest site that has been forged by woodpeckers. In this way, woodpecker species inhabit keystone roles within the Maple Grove ecosystem. Species that have been observed at Maple Grove include: Northern Flicker (*Colaptes auratus*), Downy Woodpecker (*Dryobates pubescens*), and the Hairy Woodpecker (*Dryobates villosus*). The North American Beaver (*Castor Canadensis*) is also considered a keystone species in their ability to alter habitat. Beavers hold broader cultural significance within the prairie region and several beaver sightings, lodges, and areas of beaver activity have been observed in the floodplain and riverbank areas at the Maple Grove site.

Old growth riparian forest provides important habitat for cavity nesters, bats, birds, and an array of other wildlife. Established forest stands at Maple Grove provide habitat for woodpeckers, as made evident by the presence and abundance of cavities and foraging activity indicators (Delanoy, 2000). The major canopy species at Maple Grove include Eastern Cottonwood (*Populus deltoides*), Balsam Poplar (*Populus balsamifera*), Green Ash (*Fraxinus pennsylvanica*), Manitoba Maple (*Acer negundo*), Trembling Aspen (*Populus tremuloides*), and Yellow Willow (*Salix famelica*). Cottonwood forest provides unique wildlife habitat at the Maple Grove site. The presence of Cottonwood species in Maple Grove forest areas holds particular significance within the Saskatoon region due to its position at the northern edge of the North American cottonwood range (Delanoy, 2000).

# 4.3.4 Invasive Species Observations

Table 12 documents 35 notable invasive and issue non-native plant species that have been observed on the Maple Grove site. Thirteen of the invasive plant species identified in the table below have been classified as "noxious" according to the *Saskatchewan Weed Control Act* and four species included within the table are classified as "nuisance". Additional non-native plant species have been documented on the site and are included within the comprehensive plant species inventory in Appendix B-I.



Table 11. Invasive Plant Species Documented at Maple Grove

Scientific Name	Common Name	SK Weed Control Act Designation
Agropyron cristatum	Crested Wheatgrass	200.giiddoii
Agropyron repens	Quackgrass, Creeping Wild Rye	Nuisance
Agrostis stolonifera	Creeping Bentgrass	
Artemisia absinthium	Absinthe	Noxious
Asparagus officinalis	Asparagus	
Astragalus cicer	Cicer Milkvetch	
Bromus inermis	Smooth Brome	
Campanula rapunculoides	Creeping Bellflower	
Caragana arborescens	Caragana	
Carduus nutans	Nodding Thistle	Noxious
Cirsium arvense	Canada Thistle	Noxious
Crepis tectorum	Annual Hawksbeard	Noxious
Euphorbia esula	Leafy Spurge	Noxious
Gypsophila paniculata	Tall Baby's Breath	Noxious
Kochia scoparia	Kochia	Noxious
Lactuca serriola	Prickly Lettuce	Noxious
Lappula echinata	Blue-bur	
Linaria vulgaris	Yellow Toad-flax	Noxious
Lonicera tatarica	Tatarian Honeysuckle	
Lythrum salicaria	Purple Loosestrife	Noxious
Medicago lupulina	Black Medick	
Medicago sativa spp. Sativa	Alfalfa	
Melilotus alba	White Sweet-clover	
Melilotus spp.	Sweet Clover	
Plantago major	Common Plantain	
Poa pratensis	Kentucky Bluegrass	
Rhamnus cathartica	European Buckthorn	Noxious
Rumex stenophyllus	Narrow-leaved Field Dock	
Salsola kali var. tenuifolia	Russian-thistle	Nuisance
Sonchus arvensis ssp. arvensis	Field Sow-thistle	Noxious
Sorbus aucuparia	Rowan Tree	
Tanacetum vulgare	Common Tansy	Noxious
Taraxacum officinale ssp. officinale	Common Dandelion	Nuisance
Tragopogon dubius	Yellow Goat's-beard	Nuisance
Trifolium pretense	Red Clover	

Figure 13 below provides an overview of invasive plant concentrations observed across the Maple Grove site. This map figure combines mapped exotic polygon units reported by Meewasin in the 2000 Maple Grove site vegetation survey with contemporary point invasive species observations and approximated known invasive concentration areas.



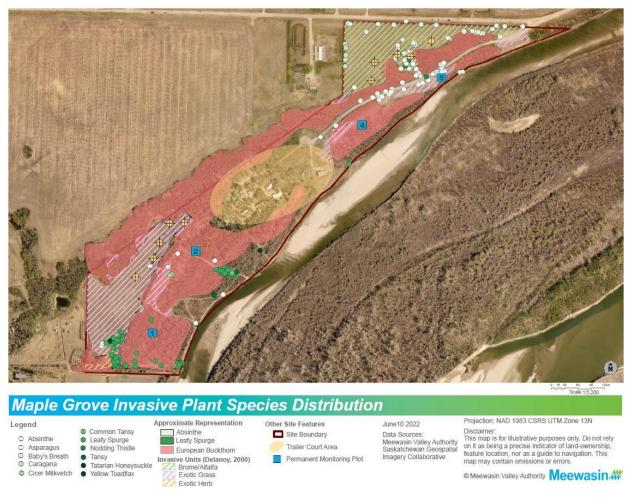


Figure 13. Invasive Plant Species Distribution at Maple Grove

Invasive grasses such as Smooth Brome, Quackgrass, Kentucky Bluegrass, and Crested Wheatgrass have extensive coverage across the Maple Grove site. Exotic grasses most commonly occur in understory areas across the site with most widespread colonization observed in remnant hayfield areas, disturbed slope positions, and adjacent floodplain areas in the northern portion of the site. The two remnant hayfield areas on the site are dominated by invasive grasses such as Smooth Brome and Kentucky Blue Grass with scattered concentrations of invasive forb species such as Absinthe (Artemisia absinthium), Baby's Breath (Gypsophila paniculata), Canada Thistle (Cirsium arvense), and Sweet Clover (Melilotus spp.). Invasive forbs such as Absinthe, Canada Thistle, Leafy Spurge (Euphorbia esula),, Common Dandelion (Taraxacum officinale ssp. officinale), and Baby's Breath are progressively establishing larger populations on the site. Site roadways and trail networks contain frequent patches of invasive forbs such as Absinthe, Sweet Clover, and Asparagus with multiple concentrations noted throughout the site along major pathways and lateral spread into marginal adjacent trail and roadways areas. Common Dandelion and Quackgrass are abundant in areas where regular landscape maintenance mowing occurs and various invasive horticultural ornamentals, such as Creeping Bellflower (Campanula rapunculoides), have been observed in the trailer court area. European Buckthorn is well established in forested areas across the entire Maple Grove site, in populations that are too numerous to document.



Meewasin has engaged in some invasive patch monitoring and management efforts over the years to control the spread of invasive plant species and restore disturbance areas on the Maple Grove site. Targeted invasive species control efforts have been relatively limited on the Maple Grove site with the exception of an extensive effort to control the spread of the small tree species known as European Buckthorn. Meewasin has been targeting the controlled removal of European Buckthorn across the Meewasin Valley for over 20 years, with an extensive history of control efforts dating back to the late 1990s occurring in the Maple Grove and Yorath Island region (Delanoy, 2000). Annual controlled chemical spot treatments of herbicide is applied to notable established patch concentrations of Leafy Spurge, Common Tansy (*Tanacetum vulgare*), and Yellow Toadflax (*Linaria vulgaris*). Routine annual application of chemical control to these noxious weed patches has been occurring since 2015. In the summer of 1998, Leafy Spurge Flea Beetles (*Aphthona spp.*) were released at the south end of Maple Grove as a biocontrol method to reduce concentrations (Delanoy, 2000). Four sizeable patch concentrations of the noxious weed Leafy Spurge are documented in the southwestern portion of the site and subject to routine monitoring and annual treatment.

# 4.4 Site Vegetation Cover Comparative Pattern Analysis

This subsection compares available vegetative data mapping and land classification profiles for the Maple Grove area to create a rounded site vegetation profile. This discussion references detailed vegetation quadrat survey data and mapping of the Maple Grove site presented in the *Vegetation and Wildlife Survey of Maple Grove and Yorath Island* report, dated February 16, 2000. Also included within this discussion is the *2014-2018 Meewasin State of the Valley* reported land use land cover type classification system (Hooey, 2021) which is used to provide a 2018 land cover status overview for the Maple Grove region. Baseline inventory survey data and supplemental multi-source comprehensive species observation datasets are additionally reflected upon within this discussion.

## 4.4.1 Key 2000 Historic Vegetation Survey Data

The Vegetation and Wildlife Survey of Maple Grove and Yorath Island (Delanoy, 2000) provides a high-quality vegetative inventory and detailed vegetation community mapping for Maple Grove and the adjacent Yorath Island area. Within this study, the Maple Grove and Yorath Island site region is divided into vegetation community series units or polygons based on observed similarities in dominant vegetation within the macro area classifications of forest, shrub, herb, and complex cover areas (Delanoy, 2000).

The reported 2000 data observed 51% of the study area (inclusive of Maple Grove and Yorath Island areas) to be under forest cover and 18 forest type vegetation units were identified (Delanoy, 2000). The main tree species observed within the study area forest units included: Cottonwood, Balsam Poplar, Green Ash, Manitoba Maple, Trembling Aspen, and Yellow Willow (Delanoy, 2000). Shrub dominant vegetation cover represented 37% of the Maple Grove and Yorath Island study area (Delanoy, 2000). Shrub cover within the study was further classified into 23 shrub dominant community types with additional elevation-based sub-classification groupings for shrub dominated vegetation communities (Table 13).



The following table provides a summary of dominant shrub type communities described in the 2000 Maple Grove vegetation survey (Delanoy, 2000).

Table 12. Shrub Community Elevation Distribution (Delanoy, 2000)

Shrub Zone	Area of Occupation	Main Shrub Species
Upland Shrub	Highest site areas, forming the understory of Aspen, Ash, Maple and Balsam Poplar forests.	Snowberry, Rose, Chokecherry, Saskatoon
Floodplain Shrub	Occurring more extensively, in lower site elevations. Forming strong understory in Cottonwood, Yellow Willow, and open Ash forests.	Sandbar Willow, Dogwood, Silverberry, and Yellow Willow
Mixed Shrub	Occur where topography is suitable.	Includes both upland and floodplain species.

Delanoy (2000) reported exotic herb and grasses as the most extensively represented plant communities in the open grass playing fields and hayfield areas at Maple Grove. Within these regions, dominant exotics such as Smooth Brome, Alfalfa, Leafy Spurge, and Canada Thistle are used to define community types (Delanoy, 2000). At the time of the 2000 report, an open sewage pond was in operation near the southwestern corner of Maple Grove, on the periphery of the playing field area (Figure A-I 6). The open sewage pond is no longer present or operational.

Table 14 includes a manipulated summary of the 2000 Delanoy vegetation community units, where catalogued units have been isolated to the Maple Grove site area with an associated estimation of site area coverage in relation to the Maple Grove site.

Table 13. 2000 Delanoy Vegetation Community Data Merged to Maple Grove Site Area

Community Type	Vegetation Community Unit	Estimated S	ite Coverage
Community Type	vegetation community offic	Area (ha)  0.96  0rn  0.12  0.12  1.59  1.95  rub  0.05  ain Shrub  2.43  0.10  Shrub  0.35  lain Shrub  1.51  I Shrub  0.43  No Shrub  1.07  Upland Shrub  0.13  xotic Herb  0.04  0.01  0.01	Area (ac)
	Ash-Upland Shrub	0.96	2.37
	Ash-Upland Shrub/Buckthorn	0.12	0.30
	Ash/Aspen-Mixed Shrub	0.12	0.30
	Ash/Maple-No Shrub	1.59	3.94
	Ash/Maple-Upland Shrub	1.95	4.81
Forest Types	Cottonwood-Floodplain Shrub	0.37	0.90
	Cottonwood-No Shrub	0.05	0.11
	Ash/Yellow Willow-Floodplain Shrub	2.43	6.02
	Aspen-Upland Shrub	0.10	0.25
	Balsam Poplar-Floodplain Shrub	0.35	0.86
	Balsam Poplar/Ash-Floodplain Shrub	0.51	1.26
	Balsam Poplar/Ash-Upland Shrub	0.43	1.07
	Balsam Poplar/Ash/Maple-No Shrub	1.07	2.64
	Balsam Poplar/Ash/Maple-Upland Shrub	0.55	1.35
	Chokecherry/Saskatoon	0.13	0.32
	Chokecherry/Saskatoon-Exotic Herb	0.04	0.10
Shrub Types	Snowberry	0.01	0.04
	Dogwood/Other Shrub	0.14	0.34
	Floodplain Shrub	0.36	0.88

	Ash/Upland Shrub-Exotic Grass	0.05	0.12
	River Birch/Willow	0.83	2.05
	Sandbar Willow	0.13	0.32
	Exotic Grass	3.46	8.54
	Sedge Meadow	0.14	0.33
	Brome/Alfalfa	2.68	6.62
	Snowberry-Exotic Grass	0.09	0.22
Herb Types	Snowberry-Exotic Herb	0.05	0.12
	Snowberry/Rose	0.05	0.13
	Snowberry/Upland Shrub	0.12	0.30
	Upland Shrub	0.15	0.37
	Yellow Willow/Floodplain Shrub	1.34	3.31
Compleyes Types	Ash/Maple/Yellow	0.04	0.09
Complexes Types Willow-Floodplain Shrub and Exotic Complex 0.04	0.04	0.09	
Other Types	Pond	0.01	0.02

The following figures map the observed vegetation community patterns reported in the Meewasin 2000 *Vegetation and Wildlife Survey of Maple Grove and Yorath Island* report document. Figure 14 illustrates the spatial distribution of reported vegetation community units across the Maple Grove site and Figure 15 illustrates the reported distribution of dominant shrub and tree species observed across Maple Grove and Yorath Island sites.



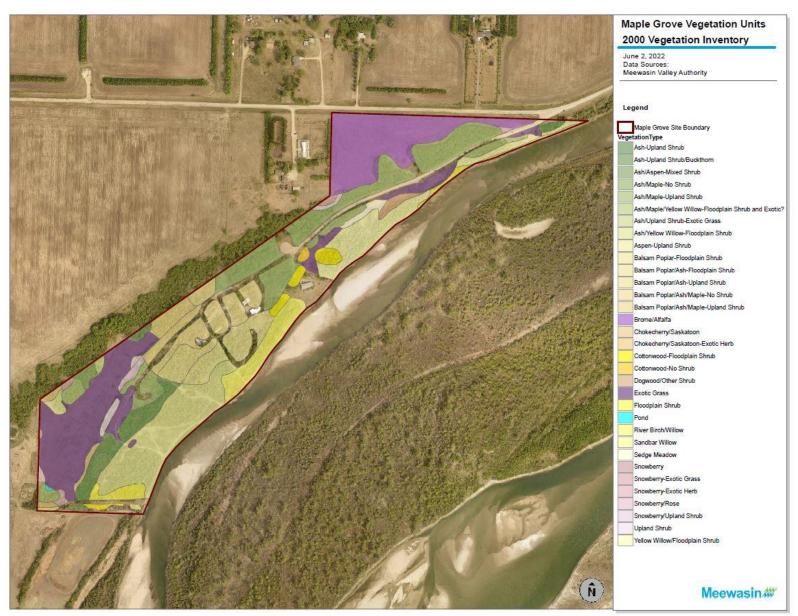


Figure 14. 2000 Maple Grove Vegetation Inventory Trends (Delanoy, 2000)

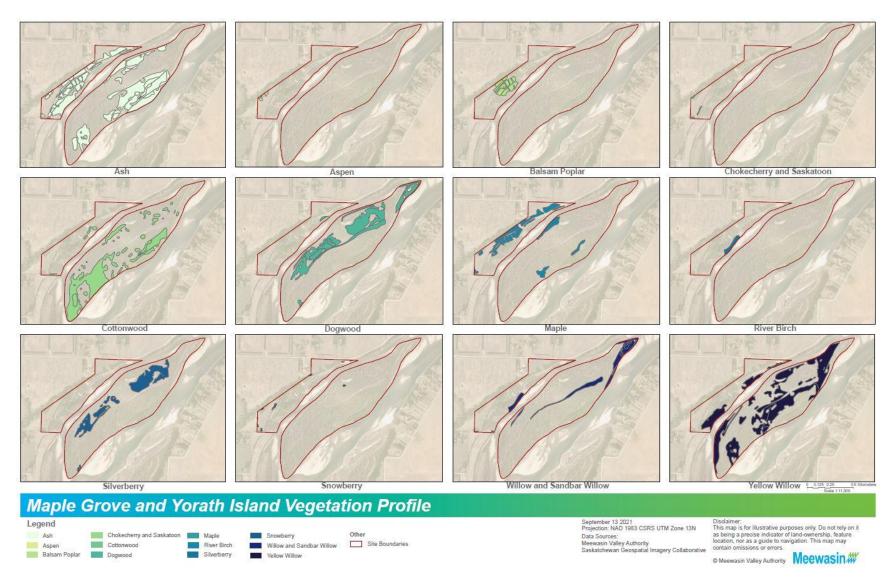


Figure 15. 2000 Shrub Community Distribution Mapped in Maple Grove and Yorath Island Region (Delanoy, 2000)

#### 4.4.2 Meewasin State of the Valley Data 2014-2018

The land use and land cover classification is a multifaceted desktop analysis process involving the aggregation of multiple land cover information sources, associated subject matters, and a temporal spectrum of aerial imagery to deliver a summary of land cover and associated land use across the Meewasin Valley region (Hooey, 2021). The 2014-2018 State of the Valley report delivers a summary of 2018 land cover in the Valley region and discusses associated changes and perceived shifts in land cover and use that have occurred during the reporting period (Hooey, 2021).

Land cover is classified into two main cover categories that include Built Environment and Ecological Environment. The 'Built Environment' classification category broadly applies to artificial surfaces, of anthropogenic use and construction (Hooey, 2021). The 'Ecological Environment' classification category applies to environments where natural surfaces predominately comprise the land cover and surroundings are low in anthropogenic intensity and range (Hooey, 2021). Within each of those main categories, features are sub-categorized based on the most appropriate observed corresponding land use and land cover types (Hooey, 2021).

Table 15 illustrates the land cover classifications applied to the Maple Grove site area with associated estimated site area coverage. Figure 16 illustrates the application of 2018 land use land cover classification on map of the Maple Grove and Yorath Island region.

Table 14. State of the Valley Land Use Land Cover Classifications Dissolved to Maple Grove Site

Area (Hooey, 2021)

LULC	,	Maple Grove Site Cover					
Category	1	2	3	4	5	Area (ha)	Area (ac)
D "	Exposed & Barren	Informal Road & Trail				0.23	0.56
Built Environment	Road & Rail					0.53	1.30
Liviloninent	Urban & Rural Development					1.92	4.74
	Green Space	Informal Green Space	Verge			0.00	0.01
		Aquatic Systems	River			0.14	0.34
			Forested & Shrubland Systems	Native & Naturalized			12.87
						0.56	1.38
Ecological Environment	Native & Naturalized		Naturalized	Agricultural Production	Old Field	0.33	0.83
	Environment	Grassland	Grass	Naturalized Green Space		1.00	2.48
		Systems		Vegetated Margin	Field Edge	0.18	0.45
			Tame	Agricultural Production	Forage Crop	4.59	11.34
			Forage	Vegetated Margin	Field Edge	0.25	0.62





Figure 16. State of the Valley Land Use Land Cover Classification for Maple Grove and Yorath Island Region

## 4.4.3 Contemporary Vegetation Community Shifts

Comparative analysis conducted with the combined information from the land cover classification and mapped vegetation community data above is summarized below in Table 16. This analysis was performed to verify assumptions about current land cover and illuminate areas of land cover change in the 20-year period that has passed since the Maple Grove vegetation survey conducted by Delanoy in 2000 and the 2018 State of the Valley land cover classification. To perform this analysis, a union dissolve tool was run on ArcGIS data mapping software to expose areas of overlap between the 2000 Delanoy vegetation community polygon units and the 2018 State of the Valley land land cover land use classification data. Table 16 summarizes the land cover area changes that have been identified based on overlapping dataset conversions. A comprehensive spreadsheet summary of this data union overlap is located in Appendix B-IV, Table B-IV 2.

Table 15. 2000-2018 Land Cover Conversions and Vegetation Community Shifts on Maple Grove Site

Conversion Summary  2000 Delanoy Vegetation Cover Types Impacted  2018 SOTV LULC Site Area Estimate		Area	Notes / Possible Correlations		
	Types impacted	Overlap	ha	ac	
	Upland Forest (3); Floodplain Forest (1); Forest (2); Exotic Grass (1)	Informal Road & Trail	0.23	0.56	Trail networks created;
Vegetation Cover to Built Environment	Forest Types (2); Exotic Grass (1); Hayfield (1)	Road & Rail	0.09	0.21	Entrance parking area; artist residence decommission
	Upland Forest (2); Floodplain Forest (1); Forest (1); Exotic Grass (1); Hayfield (1); Upland Shrub (1)	Urban & Rural Development	1.22	3.01	Parking areas expanded;
Vegetation Cover to Green Space	Upland forest (1); Exotic Grass (1); Upland Shrub (1)	Verge	0.00	0.01	Drainage ditches
Vegetation Cover to Aquatic Environment	Floodplain Forest (1); Floodplain Shrub (4)	River	0.13	0.33	Erosion
Vegetation Cover to	Upland Forest (3); Upland Shrub (4); Exotic Grass (1)	Old Field	0.33	0.83	
Agricultural Production	Upland Forest (4); Mid-Forest (1); Upland Shrub (6); Exotic Grass (1); Hayfield (1)	Forage Cover	4.59	11.34	Haying of remnant hayfield areas;
Vegetation Cover to Naturalized Grass	Upland Forest (2); Floodplain Forest (2); Forest (1); Upland Shrub (5); Floodplain Shrub (3); Hayfield (1)	Naturalized Grass	0.31	0.76	Haying and naturalization of hayfield areas; reduced forest margin areas

Vegetation Cover to Naturalized Green Space	Upland Forest (2); Floodplain Forest (2); Floodplain Shrub (3); Cottonwood Forest (2); Forest (1); Upland Shrub (1); Sedge Meadow (1)	Naturalized Green Space	0.51	1.26	Some reduction in old growth canopy;
No Cover		Forested & Shrubland Systems	0.68	1.67	Site areas previously located within built/modified
Class to Native & Naturalized	Not Classed	Naturalized Grass	0.18 0.44 vegetation c classification Delanoy's 20	environment may lack vegetation cover classification from Delanoy's 2000 assessment.	

The land cover change analysis suggests that approximately 1.53 hectares (3.79) acres of land was converted from vegetative cover to built environment during the 2000 to 2018 period. This alteration occurred within upland and floodplain environments with tree dominated canopies as well as exotic grass dominated area and the northern hayfield area. Small portions of the site changed from vegetation cover to verge and river. These small shifts may be due to the implementation of drainage ditches and erosion along the riverbank. The analysis observed around 0.13 hectares (0.33 acres) of conversion from vegetation class cover to 2018 forage crop. This shift occurred predominately in the upland areas dominated by shrubs, exotic grasses, and remnant hayfield, which may suggest some alteration had occurred as a result of the 3-year period of haying. A total of approximately 0.42 hectares (1.03 acres) was naturalized from 2000 exotic grass cover to 2018 native and naturalized cover. This reflects a shift towards naturalization of native species within the remnant hayfield units and floodplain areas.

# 4.5 Site Management Issues

A number of site management challenges and maintenance issues were highlighted throughout the course of the baseline inventory compilation. Section 2.3.1 provides some background information on the contemporary management and maintenance of Maple Grove in the period following site purchase by Meewasin. Main disturbance factors that pose an ongoing threat to the Maple Grove site include anthropogenic threats such as illegal trespassing activities and hazardous materials and external natural threats posed by environmental disturbances. The following tables provide a summary of site management challenges broadly grouped according to driving force.



# 4.5.1 Anthropogenic Disturbances and Hazards

Table 17 summarizes 'Anthropogenic Site Issues'. This category of site management challenges relates to issues with direct initiation and causal linkages to human actions and the associated enduring effects and repercussions.

Table 16. Anthropogenic Site Issues Observed at Maple Grove

Site Issue	Concern Areas	Observed at Maple Grove Historic Observations / Incidents	Notes
Trespass Issues & Property Damage	Entire site; high concentration of incidents at site entrance area.	Two suspected acts of arson at the Artist Studio building in 2008; multiple graffiti and property damages reported across property; evidence of all-terrain vehicle tresspass in northeast and southwest hayfield areas; trespass on site from the river access areas	Safety of trailer court and house residents is of particular concern.
Dumping	Site entrance, northern riverbank area adjacent to entrance, and forested areas adjacent road.	Drainage ditch at south end of site was cleaned in summer of 1999 (Delanoy, 2000). Regular dumping occurrences in site entry area – particularly on adjacent slope towards river.	
Illegal Trapping and Hunting	Maple Grove and Yorath Island region.	Incident reported in 1999: trapped coyote on site and trapping activity on island (Delanoy, 2000).	
Trailer Court	Central site area.	Presence of trailer court area has provided ongoing interruptions to site wildlife populations and increased spread of invasive species. Contemporary issues noted in relation to the demolition and decommission of remnant trailer units.	
Historic Hazards & Contaminants	Southwest hayfield, Northeast hayfield, site roadway, central trailer court area and historic structural areas.	Decommissioned historic open water sewage pond previously located in Southwest corner of property – Environmental Assessment conducted by AMEC in 2002; Historic Artist Studio Building located in northeast hayfield decommissioned in 2008; Recreational Hall demolished in 2004; Train Shed structure and various trailer units demolished in central site area.	Unknown environmental legacies – site roadway construction; soil contamination; presence of hazardous materials.

# 4.5.2 Natural Disturbances and Hazards

'Environmental Site Issues' summarized below in Table 18 include hazards and site management issues that are directly linked to natural systems and environmental forces.

Table 17. Environmental Site Issues Observed at Maple Grove

Site Issue	Site Extent (Concern Area)	Historic Observations	Notes
Flooding	Property areas lying below the 1:500 flood line.	Site flooding events (2013/14) that caused property damages to white house.	
Wildfire	Remnant hayfield areas; residential structure areas.	Grassfire in 2003 in southern site area; 2 fire incidents in 2008 with damages resulting in demolition of Artist Studio building.  Grass fire observed in May of 2022 around the mailbox and rivers edge adjacent to the northeastern site entrance area.	Litter buildup in remnant hayfield areas and drought conditions causing wildfire risk; electrical storm occurrences provide fire risk.
Riverbank Slumping	Across entire eastern site property boundary on the west riverbank of the South Saskatchewan River.	Slumping identified as issue in 2000 Maple Grove survey (Delanoy, 2000).	River channel dynamics causing sloughing, infilling, and gullying of soil along bank. Reducing floodplain areas.
Invasive Species	Remnant hayfield areas; forested regions; trail systems and roadway; open floodplain slopes; disturbed areas.	Exotic vegetation cover units and invasive species observations made in 2000 Maple Grove survey (Delanoy, 2000).	Extensive invasive coverage in hayfield areas dominated by invasive grasses; portions of unmaintained trail systems are heavily colonized by invasive species; high concentrations of absinthe lining roadways; 4 patches of leafy spurge noted in south extent of site; extensive European buckthorn coverage noted across forested regions of site; patches of Canada thistle and baby's breath in hayfield areas; additional scattered observations of noxious and nuisance weed species.
Beaver Foraging	Old growth riparian forest areas.		Removal of old growth trees noted in forested areas; extensive patches adjacent to river; beaver slides contributing to bank erosion near trail system.

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	Figure A-IV 19. Saskatoon StarPhoenix. Demise of Leisureland amusement park. Printed on



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Painting Illustrates acreage adjacent to Maple Grove site. Courtesy of Louise Cook (Provi	ded
August 2023)	XLII



# Series A-I: Property Background Figures & Maps

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<b>м</b> .с		No 985A	03150
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	h	Ref 9683	0385
THIS IS	TO CERTIFY that MEEWASIN VALLEY AUTE	ORITY	į
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<b>is</b> of and in	now the owner of an estate in fee simple	W & R	ion Cancellod
o. <b>u</b>	FIRSTLY:	Description 2	4
	All that portion of the North East Quan	cter of Section 12	
	Township 36		
	Range 6		
	West of the Third Meridian, Saskatchewa	an	
	which lies to the West of the left bank	of the South Saskatchewan	River
	48.40 acres Township survey dated Janua	ary 10, 1902	
	SECONDLY:		
	The North West Quarter of Section 12		
	160 acres		
	EXCEPT: all that portion described as i	follows: Commencing at the S	outh West
	corner; thence Easterly along the Sc	outhern boundary 775.5 feet	; thence
	Northerly and parallel with the Weste	ern boundary 726 feet; then	nce North
	Easterly in a straight line to a poin	nt on the Eastern boundary	Southerly
	544.5 feet from the North East corner	; thence Northerly along th	e Eastern
	boundary to the North East corner;	thence Westerly along the	Northern
	boundary to the North West corner;	thence Southerly along the	Western
	boundary to the point of commencement.	NW	
	MINERALS IN THE CROWN	NW Description 32	
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N WITN	ESS WHEREOF I have hereunto subscribed my name at	nd affixed my official seal this	
	day of February , A.D. 19	98	
ost Offic	e Address . 402 3rd AVENUE SOUTH		
	SASKATOON SK S7K 3G5	, ,	
		& house	Registra
	The Land Titles Act provides that "every or mortgagee shall notify the Registrar of any n his Post Office Address."	Saskatoon Land I	Pagietration Dietric

Figure A-I 1. Original Certificate of Title to Meewasin for the Maple Grove Property (Dated February 9, 1998).



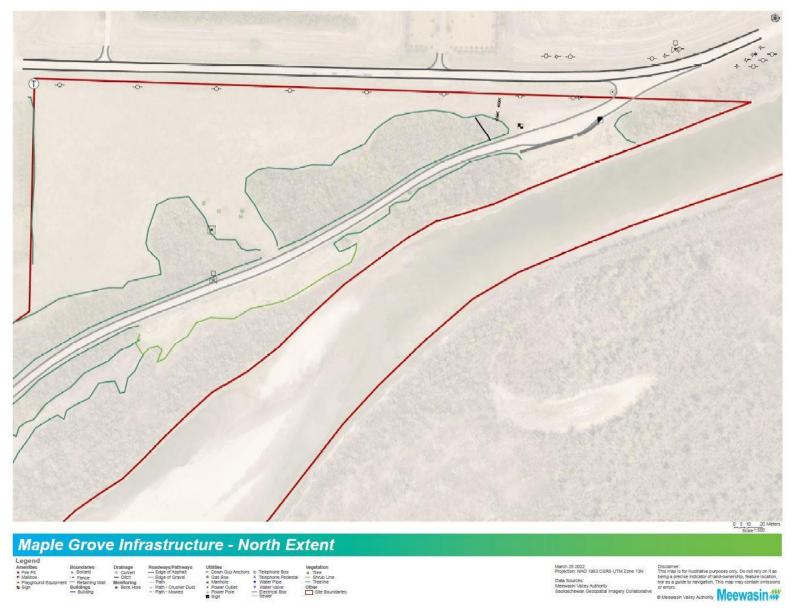


Figure A-I 2. Maple Grove Site 2021 Infrastructure Amenities Survey Map Northern Site Extent.

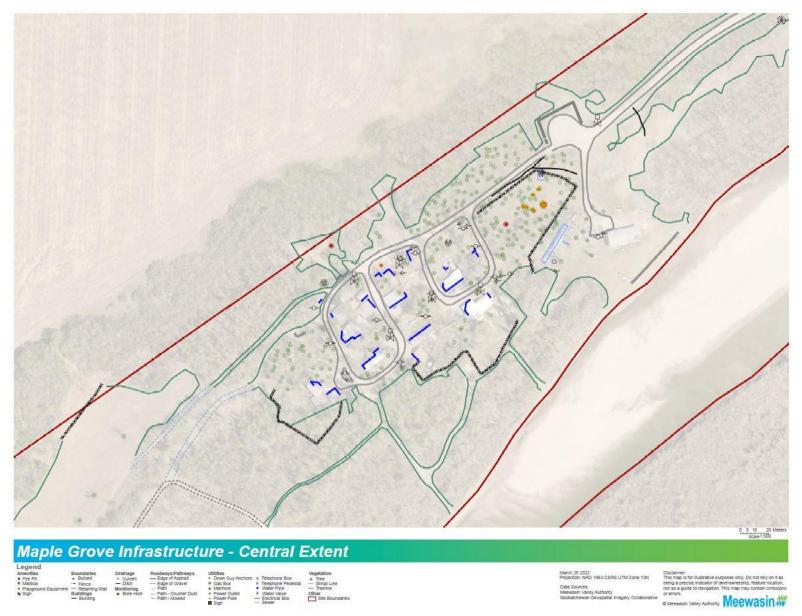


Figure A-I 3. Maple Grove Site 2021 Infrastructure Amenities Survey Map Central Site Extent.

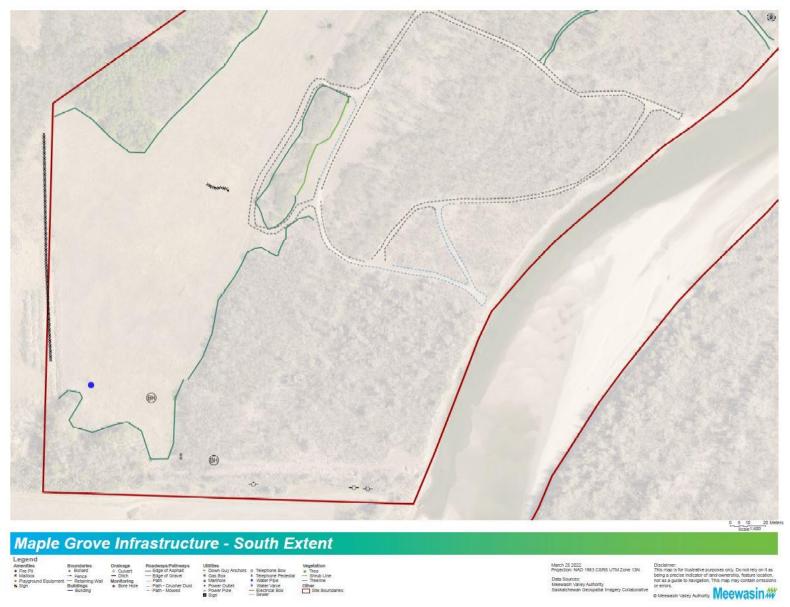


Figure A-I 4. Maple Grove Site 2021 Infrastructure Amenities Survey Map Southern Site Extent.

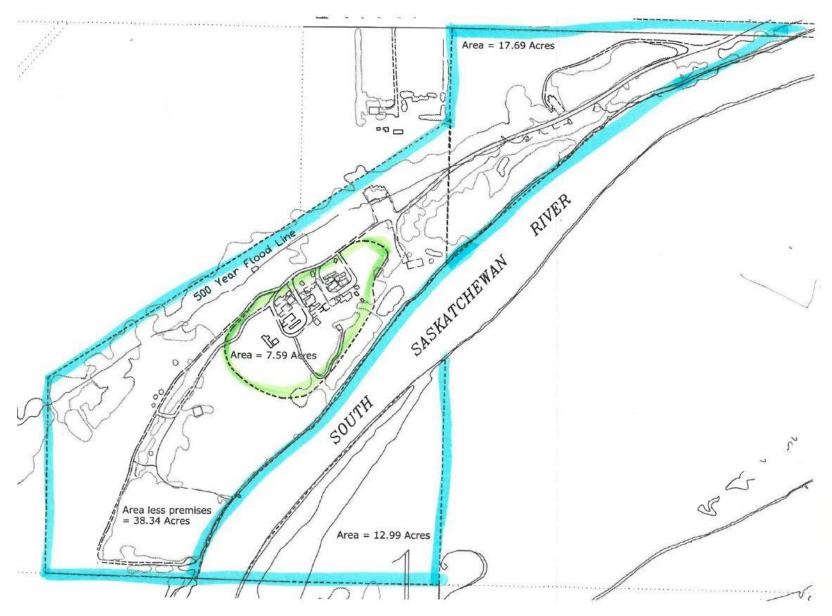


Figure A-I 5. Historic Maple Grove Site Layout (estimated date late 1990s to early 2000s).



Figure A-I 6. Location map figure taken from 2002 environmental assessment report on the Maple Grove sewage lagoon (AMEC, 2002, p.13).

#### RGE 6 SASKATOON NORTH PARTNERSHIP FOR GROWTH **DISTRICT ZONING BYLAW** Map 9 of 11, Township 36, Range 6 DAG1 P4G DISTRICT ZONING DESIGNATIONS DAG1 DAG1 - Agricultural 1 SASKATOON DAG2 - Agricultural 2 DAR1 - Agricultural Residential 1 DAG1 DAG1 DCR1 - Country Residential 1 DAG1 DCR2 - Country Residential 2 DAG1 DCR3 - Country Residential 3 DC1 - Rural Convenience Commercial 1 DAG1 DAG DC2 - Arterial Commercial 2 DB - Business DCONS DAR1 DM1 - Light Industrial 1 DAG1 DM2 - Heavy Industrial 2 DAG1 DCS - Community Service DAG1 DREC - Recreational DCONS - Conservation DAG1 DWM - Waste Management PLANNING DAG1 RGE 6 SASKATOON P4G District Boundary Airport Zoning Overlay Existing Urban Municipality Flood Plain Zoning Overlay - Floodway First Nations Reserve Flood Plain Zoning Overlay - Flood Fringe

Figure A-I 7. Saskatoon North Partnership for Growth (P4G) Schedule 1 District Zoning Map. Figure retrieved from P4G, 2023b, P4G Planning District Zoning Bylaw: Schedule 1 Zoning Bylaw Map, Figure 9 of 11: p.173).

## Series A-II: Maple Grove Site Infrastructure



Figure A-II 1. Aerial photograph of Maple Grove and Yorath Island (Meewasin, taken 04/11/2022).



Figure A-II 2. Aerial drone image of Maple Grove Site. Courtesy of Joseph Kotlar (March 2022).



Figure A-II 3. Aerial photograph of the Maple Grove site (Meewasin, taken 04/11/2022).



Figure A-II 4. Aerial drone image of Maple Grove Site. Courtesy of Joseph Kotlar (March 2022).



Figure A-II 5. Proposed site areas for fencing at Maple Grove, Meewasin 2008.

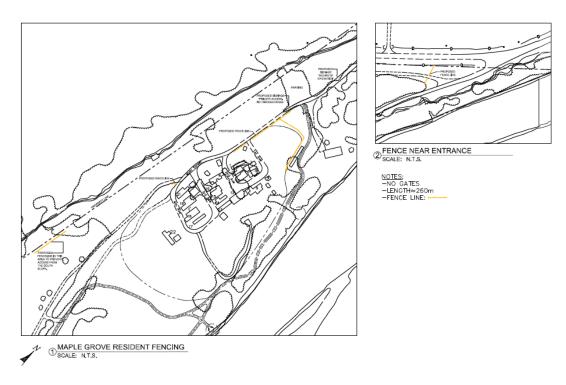


Figure A-II 6. Fencing proposed for Maple Grove, Meewasin 2008.

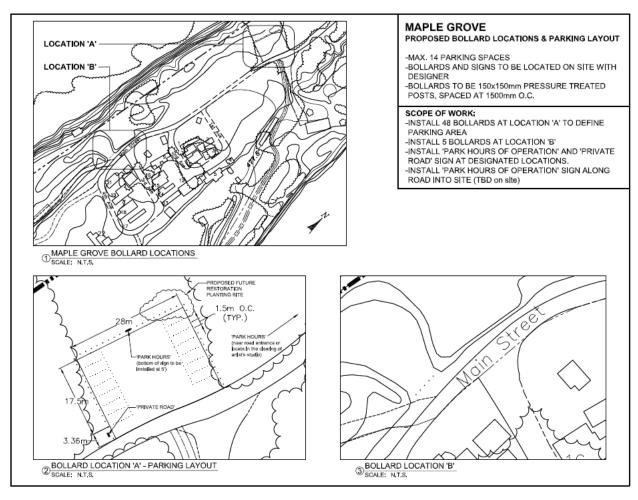


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Figure A-II 8. Proposed Maple Grove signage design, Meewasin 2008.



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Figure A-II 15. Meewasin signage at Maple Grove. Left: Sign posted site entrance. Right: sign posted at main parking area (Meewasin, taken 05/06/2022).



Figure A-II 16. Maple Grove white house (Left) and rear house yard (Right) (Meewasin, taken 05/06/2022).



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Figure A-II 24. Artists Studio (Small Banquet Hall) Building (Meewasin, taken before structure was burnt, official date unknown).



Figure A-II 25. Damages following first fire at Maple Grove Artist Studio building in 2008. (Meewasin, dated 05/12/2008).

## Series A-III: Maple Grove Site Ecology



Figure A-III 1. Floodplain shrub-dominated, hydro-riparian forest community. (Meewasin, 2022).



Figure A-III 2. Floodplain area, shrub and exotic grass dominated. (Meewasin, 2022).



Figure A-III 3. Mixed hydro-riparian forest community. (Meewasin, 2022) Left: upland. Right: floodplain.



Figure A-III 4. Mature aspen forest bordering SW hayfield area. (Meewasin, 2022).



Figure A-III 5. Mature trees in Maple Grove trailer court area. (Meewasin, 2022) Left: Cottonwood. Right: Maple.



Figure A-III 6. . Remnant hayfield area in northeast upland position at Maple Grove. (Meewasin, May 2022).



Figure A-III 7. Remnant hayfield area in southwest floodplain position at Maple Grove. (Meewasin, May 2022).



Figure A-III 8. Riparian riverbank area, along eastern site boundary of Maple Grove. (Meewasin, May 2022). Left: slumping along riverbank property edge. Right: sandbar and view of adjacent Yorath Island.



Figure A-III 9. Autonomous recording devices at Maple Grove. LEFT: wildlife camera. RIGHT: acoustic recorder. (Meewasin, 2021).



Figure A-III 10. Deer caught on wildlife camera at Maple Grove. Left: White-tailed Deer Right: Doe and fawn. (Meewasin, Date: 08/10/2020).

## Series A-IV: Historic Newspaper Articles and Photographs



Figure A-IV 1. Aerial survey photograph of southwest Saskatoon and area captured in 1967. [CP-5251-A-1] Courtesy of Saskatoon Public Library.



Figure A-IV 2. People enjoying sandy beaches of Yorath Island. [PH-2020-87] courtesy of Saskatoon Public Library.



Figure A-IV 3. Photo of "Miss Pyroil", a miniature imitation paddle-wheel steamboat built to convey passengers on South Saskatchewan River by Colin Parker (financed by father James Parker), leaving Yorath Island. [PH-2005-257] courtesy of Saskatoon Public Library.





Figure A-IV 4. Swimming bathers in river channel between Yorath Island and Maple Grove. [A-1320]. Courtesy of Saskatoon Public Library.



Figure A-IV 5. Saskatoon StarPhoenix. 1941. Saskatoon Motorcycle Club at Yorath Island. Credit: Terry Hoknes, 'Saskatoon History StarPhoenix Index Project': TH, 08131941.

# Motorbike Boys To Race Sunday

Douglas Wood, president of the Saskatoon Motorcycle Club, announced today that his organization will hold a program of races at 1.30 o'clock Sunday afternoon at Yorath Island.

Motorcyclists and others interested are requested to convene at the Brandon Block, 212 Second Avenue, north, at 12 o'clock. Each is requested to bring his lunch and a spoon.

Included in the program are stake races, which involve driving motorcycles around stakes, jumping from a ramp, slow racing, and relay racing.

# LEISURELAND

### **BANQUET HALL**

(Just past Queen Elizabeth Powerhouse)

### **Family Buffet Dinner**

Sunday, 4:30 to 7:30 p.m. ADULTS \$1.75 CHILD \$1.00

### Make Reservations Now for All Occasions!

Complete Catering to

WEDDINGS BANQUETS PICNICS BARBECUES WIENER ROASTS

WIENER ROASTS PLAYGROUNDS

For Reservation Phone 244-9338, 343-1344

Figure A-IV 6. Saskatoon StarPhoenix Newspaper Adverts. Credit: Terry Hoknes, 'Saskatoon History StarPhoenix Index Project': TH, 08071941 & 09141963.

(LEFT): Saskatoon StarPhoenix, 1941. Saskatoon Motorcycle Club Yorath Island Races. TH 08071941. (RIGHT): Saskatoon StarPhoenix, 1963. Leisureland banquet hall events. TH 09141963.



Figure A-IV 7. Saskatoon StarPhoenix, 1946. Nutana Biology Class in Yorath Island. Terry Hoknes, 'Saskatoon History StarPhoenix Index Project': TH, 05291946.

**Meewasin** 



# on of Family Farm Farm Union Brief

other members of the NFU new economic developments." poard of directors to Prime Mined concern about the propaga-ion of the idea that "technolo-

Area; to adopt a western grain gical advances' and 'effectioncy' policy and make the promotion demand the removal of the ma-of marketing boards an integral jority of farm families from the part of federal agricultural pol-land," that this change is "in-evitable" and desirable and that In a brief submitted by NFU farmers must accept it and President Alfred P. Gleave and "adjust themselves to these

Even farm and re - operative ster Diefenbaker and members organizations were promoting of his cabinet, the NFU expres- this idea, the NFU said and quoted from a publication of the National Farm Radio Forum which said: "Farmers

Annual ice harvest, which will probably bring out 7,600 to 8,000 tons of ice blocks, began recently near Yorath Island, south of the city. Some 23 men are employed throughout the six-week harvest period by Arctic Ice Co. to cut and haul the 22 by 24-inch blocks. Thickness is 28 inches and manager of the firm, William McBeath, said this is normal. Warmer weather did not affect the ice this year, he said. The ice is cut into blocks and then a float containing several blocks is sawed away, floated down a channel to the water shed and pulled onto the loading bench with hooks. From here, trucks take the loads directly to the CNR and CPR ice sheds, where they are stored for use in refrigerator cars.

Figure A-IV 8. Saskatoon StarPhoenix, 1961. Ice Harvest 7000 tons of ice blocks Yorath Island south of Saskatoon. Terry Hoknes, 'Saskatoon History StarPhoenix Index Project': TH, 02151961.



Figure A-IV 9. Saskatoon StarPhoenix Article, front page on July 14, 1955. Death of Nelson Brisseau, age 21 firefighter, drowning in river adjacent to Maple Grove. Terry Hoknes, 'Saskatoon History StarPhoenix Index Project'



Figure A-IV 10. Article Saskatoon StarPhoenix. December 12, 1963. Snowstorm stranding Leisureland Hall Christmas party guests. Terry Hoknes, 'Saskatoon History StarPhoenix Index Project'.

# HOTEL SERVICE BIT SLOW

Wednesday evening's blizzard caused mild panic at the Sheraton-Cavalier Motor Hotel this morning. About 50 staff members were stranded overnight on the outskirts of the city by the unexpected storm, As a result, the usually-busy downtown 100-r o o m hotel found itself virtually without staff.

It was toast and coffee for guests looking for breakfast in the dining room as the two waitresses who showed up for work tried to maintain some sort of order.

For the rest of the hotel's operations it was a matter of improvisation.

Without the normal complement of cooks, waitresses, desk clerks, room maids and maintenance staff, those that did report for work doubled up to serve guests.

One bellhop doubled as chef. After confusion resulted in a breakfast not being delivered to the right room, the beleaguered bellhop apologized for the mistake and said he would cook up another one.

Ron Carter, hotel manager, who arrived at work amidst confusion this morning, pitched in to help. After telling a reporter the scanty details of his troubles, and assuring him that the normal routine had been re-established shortly before noon, he cut the interview short.

"I'm on the switchboard." he said, "and the thing is lit up like a Christmas tree!"

# Maple Grove Picnic Still Major Event

contains those essentials which

RADISSON. — One of the longest-established annual pictorics in the province was continued this year and combined twith a church service on July 1, as Ruddell and Denholm residents rallied at Maple Grove, popular site of the yearly gatherings since 1905.

Maple Grove, one of the beauty spots of the district, four miles south of Ruddell and on the banks of the North Saskatchewan River consists of a tract of 20 acres of fine old maples. Oldtimers have worked for years to have a portion of this tract set aside as a community ground, and last year their ambition was realized when the provincial government set aside 10 acres for this purpose, as a living monument to the pioneers of the district.

The early days saw all manner of sports played at the grove, horse racing proving a most popular sport then with some of the finest horses in the province on display.

A. C. Whitlaw, Peter McLellan and the late John White were the three men responsible for this idea. Whitlaw came to the district in 1903 at the age of 19 and he and John White were the first two settlers to come to the district and stay. Six of the original oldtimers were present this year.

this year.

The picnic was also a farewell to the Rev. David Cline, United church minister of Ruddell, Denholm and Wavy Bank. Mr. Cline took charge of the service; after the service his three congregations presented him with a purse of money as a farewell gift. Mrs. Cline was presented with an autograph book by the young people.

Figure A-IV 11. StarPhoenix Newspaper Clippings.

(LEFT): Saskatoon StarPhoenix. 1963. Hotel Sheraton Cavalier. Credit: Terry Hoknes, 'Saskatoon History StarPhoenix Index Project': TH, 12121963.

(RIGHT): Saskatoon StarPhoenix. July 9, 1951. Page 13. Maple Grove leisure history. Courtesy of Saskatoon Public Library.

XXXIV



### Know Your Quakers The school's hockey teams until Hockey fans who have watched Saskatoon Quakers' rugged Bill Heindl bounce ophavel watched Saskatoon Quakers rugged Bill Heindl bounce opponents at defence may be somewhat surprised to learn that his hobby is the gentle art of needlecraft. He devotes his spare time to developing patterns and trammates say the Quaker rearguard has turned out some excellent work. Hendl is also keenly interested in woodworking and once ow ned shares and worked in the spring of the Caps into the Allan Cup final in the spring of 1945, Wes lust Th G e Allan Cup final in the spring of 1948. They were beaten by Ottawa Senators. worked a hockey stick manufacturing McCullough moved to Saska-toon in 1949, but Regina Caps plant That wa kicked up such a fuss over his trapsfer that he almost was forced out of hockey before fi-Que, where Bill played thre years for th forced out of nocsey before in nally getting clearance to play with Quakers. Last 'year, of course, Chuck was with Quakers again and played an important role in their winning the West-ern League championship for the first time in the loop's his-Sherbrook Saints befor coming here in 1950 to join the Quakers after stormy transfer seission, A. Win nipeg boy, Bill is now 29 and holds the distinction of hitting the playoffs with every bockey team with which he has played through minor ranks right to senior. (HOCKEY) Rangers Out In the early 40's, Bill played on successive Memorial Cup championship teams, helping Winnipeg Rangers to the Canadian junior title in 1941 and Portage la Prairie Ter-vices in 1942 Of Basement NEW YORK, Nov. 29 (CP). New York Rangers burst out with their biggest scoring spree of the season last night as they defeated Chicago Black Hawks 6-3 at Madison Square riers in 1942. After that came a three-year After that came a three-year stretch in the Royal Canadian Navy, following which Heinril joined the Ottawa Senators, later moving on to Sherbrooke. The Heindls have three sons—Danny (7), Billy (5) and Barry (3)—and Bill says it won't be long until he turns them loose as a brother forward line, Danny and Billy are already playing hockey. Garden to move into a threeway tie for third place in the National Hockey League. The defeat dumped the Black Hawks into last place, a single point behind the Rangers. Bos-ton Bruins and Montreal Canadiens diens. Last night's high-scoring game was watched by 8,135 fans. Both goal tenders were brilliant, Chuck Rayner making some great saves in the New York net, and Harry Lumley verforming brilliantly for Chi. Besides hockey, Heindl has starred at football, baseball and softball, He was a fullback in football, outfielder in baseball and second baseman in softball. He played for Vancouver Grizzlies during their brief period in the West-ern Football Conference. performing brilliantly for Chi-Lumley, who was playing with an injured left knee, had 36 saves compared with 22 for Ray-During the summer Heindl is a partner with a teammate in operating a nearby Saskatoon summer resort—Maple Grove. Heindl refers to Maple Grove as "The Poor Man's Waskesiu." But Heindl and McCullough have like plans for their resort and next summer hope to have a pretty inviting spot for Saskatonians—just a 15 or 20-minute drive from the city. mer. One of the goals—New fifth—was scored at 18.1 finale while Lumley was on the players' bench. He heindl and McCullough have like players' bench. He will be players' bench. He was scored at 18.1 finale while Lumley was cored at 18.1 finale while Lumley was scored at 18.1 finale while Lumley was cored at 18.1 finale while Lumley During the summer Heindl is ner. One of the goals—New York's fifth—was scored at 18.17 of the finale while Lumley was sitting on the players' bench. He had been lifted in a vain attempt by Chicago to get the tying goal. Red Sinclair shoved the puck into the empty net on a pass from Edgar Laprade as the Chithe city, Other New York snipers were

Figure A-IV 12. Saskatoon StarPhoenix. November 29, 1951. Page 21. Feature on Saskatoon Quakers Hockey Player Bill Heindl, co-owner of Maple Grove in the 1950s. Courtesy of Saskatoon Public Library.

Saskatoon Sun, Sunday, February 15, 1998 A3

### by Peter Wilson Wealth of memories

e stared at the framed pairing and the memories immediately came flooding bather across eight decades of Sakatehewan history. The image broug back a time when the production from a cross of spairing land we a quarter-section of prairie land was all there was to keep a growing family

back a time when the production from a quarter-section of prairie land was all there was to keep a growing family from starvation. And as Mike Egnatoff took in the water color, painted by his nephew and presented to him on his 90th brithday, he once again relieved the sense portraged in the painted by the sense portraged in the painted was all the production of the missister of the missister of the situation of the missister of the missister was all the pointered the youngster who had tugged and tugged on the reins of the missister death was all the production of the missister of the missister of the missister. "We were in two wagons, with my father in the leading one, when we came to a steep gully. My dad managed to get down and on up the rise." Mike explains, smilling broadly at the memory. "I had an ox and a horse pulling my wagon and one of the wheels ended up running over the ox which had fallen down during my over right described in the might experience driving a leam on his first 25-kilometre trip from the family homestead to the elevator in Perdue, Luckily, his father managed to complete their journey without further mishap. But it was a good lesson for the terrified youngster, one that would stay with him for the rest of his life. When the wagon went out of control, nothing the hot you leave the rest to God," he says.

A rise status deep and the best you can, After that, you leave the rest to God," he says.

After that, you leave the rest to God, he says.

As devout Baptist, Egnatoff's theories that he developed over the his lifetime have helped guide him through careers as a teacher, businessmen and landlord. At 90, he can look back with a happy nostalgia to when he was a youngster living in a sod-house and "Milking seven cows in the morning before school, and milking them again when I got bome.

Even when his family moved to the city, after giving up the family farm to settle their outstanding debts, there was no end to work. As a 10-year-old living in Saskatoon, he sold early morning newspapers before staring out on his school day.

We'd buy them and pay three cents each at the office Even when his family moved to the city, after giving up the family farm to settle their outstanding debts, there are no end to work. As a 10-year-old living in Saskatom, he sold early morning newspapers before staring out on his school day.

"We'd buy them and pay three cents each at the office and sell them for five cents to the customers. It was a good mark up, but you had to sell a lot of papers to make any money, the recalls.

All the money that any member of the family made had togo into the joint family coffers to help defray household expenses. While the young boy's personal profits from the more special server only he learned some other value.

"We have the grant off we were to survive and succeed."

As the large family grew, a new enterprise began, one that would plant the roots for Mike's future successful business endeavors. The grant off to open years and succeed."

As the large family grew, a new enterprise began, one that would plant the roots for Mike's future successful business endeavors. The grant off to open years and succeed."

As the large family grew, a new enterprise began, one that would plant the roots for Mike's future successful business endeavors. The kennet as a Revent polisher, the two had but fine and a preach polisher, the trade he had bought with him from his native year. Petersburg, Mike's mothers undered. The wond a preach as mall conference where the wond as the would plant the roots for Mike's future successful business endeavors. They may be a preach a small conference year. The wond as a french polisher, the trade he had bought with him from his native year. Petersburg, Mike's mothers are an eventerprise began, one that would plant the roots for Mike's future are an eventerprise began, one that would plant the roots for Mike future successful the wond as the wond as the wond as a fixed business endeavors. The heart would plant the roots for Mike future and would plant the roots for Mike future and would plant the roots for Mike future and would plant the roots for Mike fut

able lessons that would stay with him.
"As a family we worked together. I think at an early age I learned that we not only had to work hard, we had to pull together if we were to survive and succeed."

But this was the Dirty 30s, and teaching jobs, paid ones at least, were tough to find. After graduating, Mike began working in the Hudson Bay store in Saskatoon. It wasn't until 1493 that he started leaching the School and the Scho



m top: Mike shows off the painting to his sister Ann

Mike looks over Leisureland Trailer Park.

Family picture outside their Third Avenue store in 1931. Left to right: brothers, John and Peter, Mike and mother, Katherine



Figure A-IV 13. Saskatoon Sun Newspaper. February 15, 1998. Tribute to Mike Egnatoff in celebration of his 90th birthday. Courtesy of Saskatoon Public Library.

**Meewasin** 



Figure A-IV 14. Maple Grove Newspaper Advertisements.

(LEFT): StarPhoenix Saskatoon. June 6, 1953, page 5. Advertisement for Maple Grove public site opening in the 1950s under co-owners Bill Heindl and Chuck McCullough. Courtesy of Saskatoon Public Library.

(RIGHT): Saskatoon StarPhoenix. September 19, 1956. Page 4. Advertisement for music and dancing event at the Maple Grove Dance Hall featuring Rhythm Rocks music group. Credit: Terry Hoknes, 'Saskatoon History StarPhoenix Index Project'.



Figure A-IV 15. Maple Grove Newspaper Advertisements.

**(LEFT):** Saskatoon StarPhoenix. Printed May 22, 1948, p.4. Newspaper Advertisement for event at Maple Grove. Courtesy of Saskatoon Public Library.

(RIGHT): Saskatoon StarPhoenix. Printed May 15, 1953, p.4. Newspaper Advertisement for event at Maple Grove. Courtesy of Saskatoon Public Library.



Figure A-IV 16. Saskatoon StarPhoenix. Advertisement for trailer space bookings at Leisureland. Printed on October 29, 1960. Credit: Terry Hoknes, 'Saskatoon History StarPhoenix Index Project'.



# NOW OPEN FUNTIME AMUSEMENT PARK

LOCATED AT LEISURELAND — 244-0807 RIVERSIDE DRIVE — WEST OF QUEEN ELIZABETH POWER STATION

### OPEN DAILY

MINIATURE GOLF — 18 HOLE TRAMPOLINES PLAYGROUNDS — SWINGS SLIDES - CLIMBERS SCHOOL PICNICS PICNIC AREA
ADULT AND KIDDIE RIDES
HORSESHOE PITCHES
ORGANIZATION AND GROUP PICNICS

RIDES OPEN 1 P.M. - 9 P.M.

CLIP AND USE THESE TICKETS ON SUNDAY, JUNE 4 FOR

ONE FREE COTTON CANDY JUNE 4, 1972 ONE FREE MERRY GO ROUND JUNE 4, 1972 ONE FREE TRAIN RIDE JUNE 4, 1972

Catering to Banquets — Wedding Receptions

By Reservation 244-5435

Figure A-IV 17. Saskatoon StarPhoenix, 1972. Advertisement Leisureland Funtime Amusement Park. Credit: Terry Hoknes, 'Saskatoon History StarPhoenix Index Project': TH, 06031972.



The Art Department is introducing a new program which will bring to the campus sculpture to be viewed outside. At present, the Department is pleased to present a work by Katie Ohe, a Calgary sculptress. This work will be displayed on the terrace outside Marquis Hall until November 20th.

Saturday, November 13th

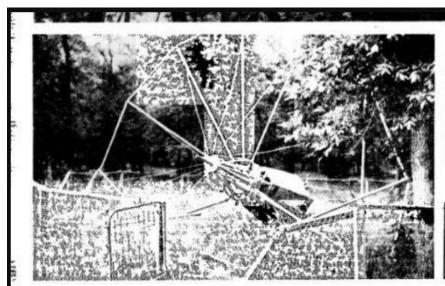
1:30 p.m. The Saskatoon Cricket Association will hold their annual general meeting in Emmanuel College. If interested, phone Victor Allman at 244-7149.

9:00 p.m. Education's "PARISIAN HOLIDAY". Semi-formal held at Leisureland with music by the Shadows. Cost is \$3.00 per couple for members and \$3.50 for non-members.

Sunday, November 14th

7:00 p.m. ISC "International Chit-Chat," a friendly evening featuring a slide show by Milton Orris.

Figure A-IV 18. The Sheaf, 1965. University of Saskatchewan Newspaper. Leisureland Parisian Holiday. Credit: Terry Hoknes, 'Saskatoon History StarPhoenix Index Project': TH, 11131965.



Above: A massive abandoned symbol of former amusement park's glory is the deserted ferris wheel, shhouetted against a cloudy sky. Left: Leisureland rides have been deliberately pushed over by the owner to make them less tempting to visitors and children.

Story by Eric O. Burt Photos by Tammy Tompalski



# Amusement park concept goes to seed

Leisureland is having a "leisure" all its own these days. Service clubs, commercial firms and other groups still have damers in the banquet half or barbecues in the premises out-of-doors, but the tlays of the Sunday pictic when you gave the kuds a dame apiece to role the merry-go-round or the miniature.

train are no more.

Mike Egnatoff, owner of the 85-acre site just outside the southwest Saskatoon limits, wishes the city or some organization would assume responsibility for redevelopment of the

"It's unique," he says as he talks of the plans he once had for the place.

The \$5 acres include 12 acres on an island in the South Saskatchewan River, the main stream of which actually runs down the opposite side of the island from the Leisureland property. Between the island and what used to be a popular amusement park is a broad channel that is more or less a backwater. Egnatoff once had plans for damming both ends of the strip, putting in sluices which would make it possible to centrol the flow and the depth of the water.

"It would be fine for canceing or for those little pedal boats you see at summer resorts and amusement parks," he says.

He concedes the season is short but he had an idea for overcoming that, too. The Queen Elizabeth power elation is close at hard and is continually discharging hot water into the river. Alltife piping could channel some of this into the lagoon so it could be used spring, summer and fall.

The idea never got past the thinking stage, but Egnatoff still thinks it's a possibility for the city or some other developer to carry out.

What did develop during the 17 years since Egisatoff bought the property was a ferris wheel and a number of other thrill rides for the small fry who joined their parents and others for a picnic to the park. But Egastoff's Handicraft Supplies Ltd. In downtown Seskatomoccupies most of his time and attention. He hasn't really got the time to run an amusement park.

He thought he had a solution when he made a deal with a midway operator who catered to small fairs and carnivals to add some of his rides to those already in the park and to operate the whole pince. It worked for a while "but then he went away and digit come back."

Egnatoff says he could pay a man \$35 a day to run the place but is afraid he'd only stay a day or two.

"If he's worked somewhere for eight weeks he can collect pretty hear that much in unemployment insurance, so why should be work?"

So the ferris wheel and all the other rides that used to rock and whiz and whirl their young patrons through space have been pushed over, partly dismantled or otherwise made less tempting to the small fry who visit the place.

The miniature train which once carried visitors along a half

mile scenic route through the trees to the picnic site is booked away in a "roundhusse" that is more straight than round, the station house is reting away and grass is growing up between the rails in much the static way it is doing on all those other abandosed rail lines across the Prairies.

Swings, a roundabout, a mankey puzzle and a couple of slides are there for the benefit of the youngsters of families living in the adjacent trailer park (also owned by Egnatoff) or for those who may still picture in the park.

The site is just off the west end of the Spadina Crescent cycle route and young cyclists also have a brief swing, a slide and a turn or two of the roundabout before heading back to town.

Egnatoff will still see that your banquet or recept ion is catered for. You can use the picule facilities, at a price, and know Egnatoff will see the place is cleaned up afterward.

But Leisureland isn't going to become the "Disneyland of Soskatoon" until the city or some other developer takes over.

Figure A-IV 19. Saskatoon StarPhoenix. Demise of Leisureland amusement park. Printed on August 9, 1977.



Figure A-IV 20. Photo of original 'Playland Express' miniature train ride (later brought to Leisureland). Train photographed while in the possession of original owner, operator, and designer Bob Svbota. Photo courtesy of Loa and Dave Titman.



Figure A-IV 21. Oblique aerial view south along the South Saskatchewan River captured in 1972. The Grand Trunk railway bridge is in the foreground and Yorath Island is in the centre of the photo. [PH-2009-118] courtesy of Saskatoon Public Library.

# YOU TO AN OPEN HOUSE SAT.& SUN.NOV. 21-22 12:00 - 8:00 P.M

# PAINTERS & SCULPTORS



BRYAN LANE
DOUG HUNTER
ED GIENEY
DARLENE HAY
LOUISE COOK

LORENZO DUPUIS
MARGARETE SIMPSON

We cordially invite you to our studio to view recent works by four painters (three landscape & one figurative) and three scultors (multi medium). Completed works and those in progress will be on display. Our location is in a building that overlooks the river at Leisureland, a short distance southwest of the Queen Elizabeth II Power Station. Tea and coffee will be served. Everyone welcome. Bring your friends!



#### LEISURELAND STUDIO

LEISURELAND, RR 3, BOX 105, SASKATOON, SASK, S7K 3J6 PHONE: 382-4411

Figure A-IV 22. Leisureland Artist Studio Invite. Date unknown. Courtesy of Louise Cook (Provided August 2023).



### **OUTSKIRTS AND**

"Please join me for the opening of my exhibition, Outskirts and Acreages.
The paintings I have chosen for this show explore the notion of the urban/rural boundary, whether it be natural, man-made, physical or figurative. It is a concept that even presents itself at my riverbank studio just past the Queen Elizabeth Power Station. These areas are in the twilight, neither city nor country, but balancing precariously between both."

Louise Cook

Opening: Thursday, December 4, 7:00 - 9:00 pm Frances Morrison Library Gallery, Dec. 2, '97 to Jan. 3, '98

Figure A-IV 23. Art Exhibition Promotion, Louise Cook. Dated December 1997 – January 1998. Painting Illustrates acreage adjacent to Maple Grove site. Courtesy of Louise Cook (Provided August 2023).

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### Series B-I: Species Inventory Tables

This section contains comprehensive inventories of species observed and reported at the Maple Grove site and within the broader Maple Grove Yorath Island study region. Data sets contain species observations from a range of databases and report sources with observations temporally scattered (sources detailed in section 5). Species inventory data sets were updated in June of 2022.

Table B-I 1. Wildlife Species Observation Inventory for Maple Grove and Yorath Island region (updated June 2022).

SCIENTIFIC NAME	COMMON NAME	Global Rank	Subnational Rank	COSEWIC	SARA Schedule
Bird Species					
Acanthis flammea	Common Redpoll	G5	S4B,S4N		
Actitis macularius	Spotted Sandpiper	G5	S5B		
Aechmophorus occidentalis	Western Grebe	G5	S3B	Special Concern	Special Concern
Aegolius acadicus	Northern Saw-whet Owl	G5	S5B,S4N		
Agelaius phoeniceus	Red-winged Blackbird	G5	S5B,SUN		
Anas acuta	Northern Pintail	G5	S5B		
Anas platyrhynchos	Mallard	G5	S5B		
Anser albifrons	Greater White-fronted Goose	G5	S5M		
Antigone canadensis	Sandhill Crane	G5	S5B		
Archilochus colubris	Ruby-throated Hummingbird	G5	S5B,S4M		
Ardea herodias	Great Blue Heron	G5	S5B		
Bombycilla cedrorum	Cedar Waxwing	G5	S5B		
Branta canadensis	Canada Goose	G5	S5B		
Bonasa umbellus	Ruffed Grouse	G5	S5		
Bubo virginianus	Great Horned Owl	G5	S4		
Bucephala albeola	Bufflehead	G5	S5B		
Bucephala clangula	Common Goldeneye	G5	S5B		
Buteo regalis	Ferruginous Hawk	G4	S3B	Special Concern	Threatened
Buteo swainsoni	Swainson's Hawk	G5	S4B		
Catharus fuscescens	Veery	G5	S4B		
Catharus ustulatus	Swainson's Thrush	G5	S5B		
Charadrius vociferus	Killdeer	G5	S5B		
Chordeiles minor	Common Nighthawk	G5	S4B	Special Concern	Threatened
Circus hudsonius	Northern Harrier	G5	S4B	Not at Risk	
Colaptes auratus	Northern Flicker	G5	S5B,SUN		
Corvus brachyrhynchos	American Crow	G5	S5B,S4N		
Corvus corax	Common Raven	G5	S5		
Cyanocitta cristata	Blue Jay	G5	S5		
Dryobates pubescens	Downy Woodpecker	G5	S5		
Dryobates villosus	Hairy Woodpecker	G5	S5		



Dumetella carolinensis	Gray Catbird	G5	S5B		
Empidonax alnorum	Alder Flycatcher	G5	S5B		
Empidonax minimus	Least Flycatcher	G5	S5B		
Eremophila alpestris	Horned Lark	G5	S4B,S3N,SUM		
Falco columbarius	Merlin	G5	S5B,S5N	Not at Risk	
Falco sparverius	American Kestrel	G5	S5B,S1N		
Geothlypis trichas	Common Yellowthroat	G5	S5B		
Haemorhous mexicanus	House Finch	G5	S4B		
Haemorhous purpureus	Purple Finch	G5	S5B,S4N		
Hirundo rustica	Barn Swallow	G5	S4B	Special Concern	Threatened
Icterus galbula	Baltimore Oriole	G5	S5B		
Junco hyemalis	Dark-eyed Junco	G5	S5B,S4N		
Larus argentatus	Herring Gull	G5	S5B		
Larus californicus	California Gull	G5	S4B		
Larus delawarensis	Ring-billed Gull	G5	S5B		
Mareca americana	American Wigeon	G5	S5B		
Megaceryle alcyon	Belted Kingfisher	G5	S4B		
Melospiza melodia	Song Sparrow	G5	S5B		
Mergus merganser	Common Merganser	G5	S5B		
Mniotilta varia	Black-and-white Warbler	G5	S5B		
Molothrus ater	Brown-headed Cowbird	G5	S5B,SUN		
Pandion haliaetus	Osprey	G5	S3B		
Passer domesticus	House Sparrow	G5	SNA		
Petrochelidon pyrrhonota	Cliff Swallow	G5	S5B		
Pica hudsonia	Black-billed Magpie	G5	S5		
Pinicola enucleator	Pine Grosbeak	G5	S2B,S4N		
Pipilo maculatus	Spotted Towhee	G5	S5B		
Poecile atricapillus	Black-capped Chickadee	G5	S5		
Pooecetes gramineus	Vesper Sparrow	G5	S5B		
Progne subis	Purple Martin	G5	S5B		
Seiurus aurocapilla	Ovenbird	G5	S5B		
Setophaga coronata	Yellow-rumped Warbler	G5	S5B		
Setophaga magnolia	Magnolia Warbler	G5	S5B		
Setophaga palmarum	Palm Warbler	G5	S5B		
Setophaga petechia	Yellow Warbler	G5	S5B		
Sitta canadensis	Red-breasted Nuthatch	G5	S5B,S5N,S5M		
Sitta carolinensis	White-breasted Nuthatch	G5	S5		
Sphyrapicus varius	Yellow-bellied Sapsucker	G5	S5B		
Spinus tristis	American Goldfinch	G5	S5B		
Spizella pallida	Clay-colored Sparrow	G5	S5B		
Spizella passerina	Chipping Sparrow	G5	S5B		



Spizelloides arborea	American Tree Sparrow	G5	S1B,S5M		
Sterna hirundo	Common Tern	G5	S5B	Not at Risk	
Sturnella neglecta	Western Meadowlark	G5	S5B		
Tachycineta bicolor	Tree Swallow	G5	S5B		
Tringa melanoleuca	Greater Yellowlegs	G5	S5B		
Toxostoma rufum	Brown Thrasher	G5	S5B		
Troglodytes aedon	House Wren	G5	S5B		
Turdus migratorius	American Robin	G5	S5B,SUN		
Tyrannus tyrannus	Eastern Kingbird	G5	S5B		
Vireo gilvus	Warbling Vireo	G5	S5B		
Vireo olivaceus	Red-eyed Vireo	G5	S5B		
Zenaida macroura	Mourning Dove	G5	S5B		
Zonotrichia albicollis	White-throated Sparrow	G5	S5B		
Mammal Species					
Alces alces	Moose	G5	S5		
Canis latrans	Coyote	G5	S5		
Castor canadensis	North American Beaver	G5	S5		
Eptesicus fuscus	Big Brown Bat	G5	S5		
Erethizon dorsatum	North American Porcupine	G5	S4		
Lasionycteris noctivagans	Silver-haired Bat	G3G4	S5B		
Lasiurus cinereus	Hoary Bat	G3G4	S5B		
Lepus americanus	Snowshoe Hare	G5	S5		
Mephitis mephitis	Striped Skunk	G5	S5		
Myotis lucifugus	Little Brown Myotis	G3	S4B,S4N	Endangered	Endangered
Neovison vison	American Mink	G3	S5		
Odocoileus hemionus	Mule Deer	G5	S4		
Odocoileus virginianus	White-tailed Deer	G5	S4		
Tamiasciurus hudsonicus	Red Squirrel	G5	S5		
Thomomys talpoides	Northern Pocket Gopher	G5	S5		
Vulpes vulpes	Red Fox	G5	S5		
Amphibian Species					
Pseudacris maculata	Boreal Chorus Frog	G5	S5	Not at Risk	
Lithobates pipiens	Northern Leopard Frog	G5	S3	Special Concern	Special Concern
Reptile Species					
Thamnophis radix haydenii	Western Plains Gartersnake	G5T5	S5		



Table B-I 2. Plant Species Observa Scientific Name	Common Name	Global Rank	National Rank	Subnational Rank	Invasive
Achillea millefolium	Common Yarrow	G5	NNR	S5	
Actaea rubra	Red Baneberry	G5	N5	S5	
Agrimonia striata	Agrimony	G5	N5	S4	
Agropyron cristatum ssp. pectinatum	Crested Wheatgrass	G5TNR	NNA	SNA	Х
Agropyron repens	Creeping Wild Rye	GNR	NNA	SNA	Х
Agrostis stolonifera	Creeping Bentgrass				Х
Amelanchier alnifolia var. alnifolia	Saskatoon	G5T5	N5	S5	
Anemonastrum canadense	Canada Anemone	G5	N5	S5	
Anemone canadensis	Canada Anemone	G5	N5	S5	
Anemone cylindrica	Long-fruited Anemone	G5	N5	S4	
Anemone multifida var. multifida	Cut-leaved Anemone	G5T5	N5	S4	
Apocynum androsaemifolium	Spreading Dogbane	G5	N5	S4	
Aralia nudicaulis	Wild Sarsaparilla	G5	N5	S5	
Artemisia absinthium	Absinthe	GNR	NNA	SNA	X
Artemisia frigida	Pasture Sage	G5	N5	S5	
Asparagus officinalis	Asparagus	G5?	NNA	SNA	Х
Astragalus cicer	Cicer Milk-vetch	G5	NNA	SNA	Х
Atriplex patula	Orache	G5	NNA	SNA	
Betula occidentalis	River Birch	G5	N5	S4	
Betula papyrifera	Paper Birch	G5	N5	S5	
Bidens cernua	Nodding Beggar-ticks	G5	N5	S4	
Boechera grahamii	Rockcress	G5	N5	S4	
Brassica rapa	Wild Mustard	GNR	NNA	SNA	
Bromus ciliatus	Fringed Brome	G5	N5	S4	
Bromus inermis	Smooth Brome	G5	NNA	SNA	Х
Campanula rapunculoides	Creeping Bellflower	GNR	NNA	SNA	X
Campanula rotundifolia	Harebell	G5	N5	S5	
Caragana arborescens	Common Caragana	GNR	NNA	SNA	Х
Carduus nutans	Nodding Thistle	GNRTNR	NNA	SNA	X
Carex atherodes	Awned Sedge	G5	N5	S4	
Carex aurea	Golden Sedge	G5	N5	S4	
Carex bebbii	Bebb's Sedge	G5	N5	S4	
Carex deweyana var. deweyana	Dewey's Sedge	G5T5	N5	S5	
Carex eburnea	Bristle-leaved Sedge	G5	N5	S3	
Carex lanuginosa	Woolly Sedge	G5	N5	S4	
Carex obtusata	Blunt Sedge	G5	N5	S5	
Carex peckii	White-tinged Sedge	G5	N5	S4	
Carex retrorsa	Turned Sedge	G5	N5	S4	



Carex rostrata	Northwest Territory Sedge	G5	N5	S4	
Carex sartwellii var. sartwellii	Sartwell's Sedge	G5T4T5	NNR	S4	
Carex siccata	Dry-spike Sedge	G5	N5	S4	
Carex sprengelii	Sprengel's Sedge	G5	N5	S4	
Carex vaginata	Sheathed Sedge	G5	N5	S4	
Cirsium arvense	Canada Thistle	G5	NNA	SNA	Х
Conyza canadensis	Horseweed	G5	N5	S4	
Cornus sericea ssp. sericea	Red-osier Dogwood	G5T5	N5	S5	
Crataegus chrysocarpa	Northern Hawthorn	G5	N5	S4	
Crepis tectorum	Annual Hawksbeard	GNR	NNA	SNA	Х
Elaeagnus commutate	Wolf Willow	G5	N5	S4	
Eleocharis palustris	Creeping Spike-rush	G5	N5	S5	
Equisetum arvense	Common Horsetail	G5	N5	S5	
Erigeron asper	Streamside Fleabane	G5T5	N5	S5	
Erigeron canadensis	Horseweed	G5	N5	S4	
Euphorbia esula	Narrow Leafy Spurge	GNRTNR	NNA	SNA	X
Euphorbia helioscopia	Sun Spurge	G5	NNA	SNA	
Fragaria virginiana ssp. glauca	Smooth Wild Strawberry	G5T5	N5	S5	
Fraxinus pennsylvanica	Green Ash	G5	N5	S4	
Galium boreale	Northern Bedstraw	G5	N5	S5	
Galium triflorum	Sweet-scented Bedstraw	G5	N5	S4	
Geum aleppicum	Yellow Avens	G5	N5	S4	
Glechoma hederacea	Ground-ivy	GNR	NNA	SNA	
Glycyrrhiza lepidota	Wild Licorice	G5	N5	S4	
Gypsophila paniculata	Tall Baby's Breath	GNR	NNA	SNA	Х
Hackelia floribunda	Large-flowered Stickseed	G5	N5	S5	
Helenium autumnale	Common Sneezeweed	G5	N5	S4	
Heracleum maximum	Cow Parsnip	G5	N5	S4	
Heuchera richardsonii	Alumroot	G5	N5	S4	
Houstonia longifolia	Long-leaved Bluets	G5	N5	S4	
Juncus balticus	Baltic Rush	G5	N5	S4	
Juncus nodosus	Knotted Rush	G5T5	N5	S4	
Juniperus horizontalis	Creeping Juniper	G5	N5	S5	
Kochia scoparia	Kochia	GNR	NNA	SNA	X
Lactuca serriola	Prickly Lettuce	GNR	NNA	SNA	Х
Lappula echinata	Blue-bur	GNR	NNA	SNA	X
Lathyrus ochroleucus	Cream-coloured Vetchling	G5	N5	S5	
Lathyrus venosus	Wild Peavine	G5	N5	S4	
Linaria vulgaris	Yellow Toad-flax	GNR	NNA	SNA	Х
Lonicera dioica	Wild Honeysuckle	G5	N5	S5	
Lonicera tatarica	Tartarian Honeysuckle	GNR	NNA	SNA	Х



Lycopus americanus	Water-horehound	G5	N5	S4	
Lycopus asper	Western Water-horehound	G5	N4N5	S4	
Lysimachia ciliata	G5	N5	S4		
Lysimachia hybrida	Fringed Loosestrife Lance-leaved Loosestrife	G5	N5?	S5	
Lythrum salicaria	Purple Loosestrife	G5	NNA	SNA	Χ
Maianthemum canadense	Two-leaved Solomon's-seal	G5	N5	S5	
Maianthemum stellatum	Starflower False Solomon's-seal	G5	N5	S4	
Malus sp.	Crabapple				Χ
Medicago lupulina	Black Medic	GNR	NNA	SNA	Х
Medicago sativa ssp. sativa	Alfalfa	GNRTNR	NNA	SNA	Χ
Melilotus alba	White Sweet-clover	G5	NNA	SNA	Χ
Mentha arvensis	Wild Mint	G5	N5	S4	
Moehringia lateriflora	Blunt-leaved Sandwort	G5	N5	S4	
Muhlenbergia racemosa	Bog Muhly	G5	N5	S4	
Oenothera biennis	Hairy Evening-primrose	G5T5?	NNR	S4	
Oryzopsis asperifolia	White-grained Mountain Rice Grass	G5	N5	S4	
Oryzopsis hymenoides	Sand Ricegrass	G5	N5	S4	
Osmorhiza depauperata	Blunt-fruited Sweet-cicely	G5	N5	S4	
Phalaris arundinacea	Reed Canary Grass	G5	N5	S4	
Physostegia ledinghamii	Ledingham's Physostegi	G4G5	N4	S4	
Plantago major	Common Plantain	G5	NNR	SNA	Χ
Poa palustris	Fowl Blue Grass	G5	N5	S4	
Poa pratensis	Kentucky Blue Grass	G5	N5	SNA	Χ
Polygonum lapathifolium	Pale Persicaria	G5	N5	S4	
Populus balsamifera ssp. balsamifera	Balsam Poplar	G5T5	N5	S5	
Populus deltoides ssp. monilifera	Eastern Cottonwood	G5T5	N5	S4	
Potentilla anserina ssp. anserina	Silverweed	G5T5	N5	S4	
Prunus virginiana var. virginiana	Chokecherry	G5T5	N5	S5	
Psoralidium lanceolatum	Lance-leaved Psoralea	G5	N4N5	S4	
Pyrola secunda	One-sided Wintergreen	G5	N5	S5	
Rhamnus cathartica	European Buckthorn	GNR	NNA	SNA	Χ
Rhus aromatica var. aromatica	Fragrant Sumac	G5T5	N5	S5	
Ribes oxyacanthoides var. oxyacanthoides	Bristly Gooseberry	G5T5	N5	S4	
Ribes triste	Northern Red Currant	G4G5	NNA	SNA	
Rosa acicularis ssp. sayi	Prickly Rose	G5T5	N5	S5	
Rosa woodsii var. woodsii	Wood's Rose	G5T5	N5	S5	
Rubus pubescens	Dewberry	G5	N5	S5	
Rumex maritimus	Golden Dock	G5	N5	S5	
Rumex stenophyllus	Narrow-leaved Field Dock	GNR	NNA	SNA	



Salix bebbiana	Long-beaked Willow	<b>G</b> 5	N5	S4	
Salix discolor	Pussy Willow	G5	N5	S4	
Salix famelica	Yellow Willow	G5T5	N5	S4	
Salix interior	Salix interior Sandbar Willow		N5	S4	
Salix lutea	Yellow Willow	G5T5	N5	S4	
Salix monticola	False Mountain Willow	G5	N5	S4	
Salsola kali var. tenuifolia	Russian-thistle	GNR	NNA	SNA	Х
Sanicula marilandica	Black Snakeroot	G5	N5	S4	
Schizachne purpurascens	Purple Oat Grass	G5	N5	S4	
Sisyrinchium montanum var. montanum	Common Blue-eyed-grass	G5T5	N5	S4	
Sium suave	Water Parsnip	G5	N5	S4	
Smilacina stellata	Starflower False Solomon's-seal	G5	N5	S4	
Smilax lasioneura	Herbaceous Greenbrier	G5	N4N5	S4	
Solidago canadensis	Canescent Goldenrod	G5T5	N5	S5	
Solidago graminifolia	Flat-top Goldentop	G5T5	N5	S4	
Solidago missouriensis	Low Goldenrod	G5	N5	S5	
Sonchus arvensis ssp. arvensis	Field Sow-thistle	GNRTNR	NNA	SNA	Х
Sorbus aucuparia	Rowan Tree	G5	NNA	SNA	Х
Spiraea alba var. alba	Narrow-leaved Meadow-sweet	G5T5	N5	S4	
Sporobolus cryptandrus	Sand Dropseed	G5	N5	S4	
Stellaria longifolia	Long-leaved Stitchwort	G5	N5	S4	
Stipa comata	Needle-and-thread Grass	G5T5	N5	S5	
Stipa curtiseta	Porcupine Grass	G5	N5	S5	
Symphoricarpos occidentalis	Western Snowberry	G5	N5	S5	
Symphyotrichum boreale	Northern Aster	G5	N5	S4	
Symphyotrichum lanceolatum var. hesperium	White Panicled American-aster	G5T5	N5	S4	
Tanacetum vulgare	Tansy	GNR	NNA	SNA	Х
Taraxacum officinale ssp. officinale	Common Dandelion	G5T5	NNA	SNA	X
Thalictrum venulosum	Veiny Meadow-rue	G5	N5	S5	
Thermopsis rhombifolia	Golden-bean	G5	N5	S5	
Toxicodendron rydbergii	Poison Ivy	G5	N5	S4	
Tragopogon dubius	Yellow Goat's-beard	GNR	NNA	SNA	
Trifolium pratense	Red Clover	GNR	NNA	SNA	X
Typha latifolia	Common Cattail	G5	N5	S4	
Urtica dioica ssp. gracilis	Stinging Nettle	G5T5	N5	S4	
Viburnum edule	Low Bush-cranberry	G5	N5	S5	
Viburnum opulus var. americanum	High Bush-cranberry	G5T5	N5	S4	
Vicia americana ssp. americana	American Purple Vetch	G5T5	N5	S5	
Viola canadensis var. rugulosa	Western Canada Violet	G5T5	N5	S5	
Xanthium strumarium	Cocklebur	G5	N5	S4	



Zizia aptera	Heart-leaved Alexanders	G5	N5	S4	
Acer negundo var. interius	Manitoba Maple	G5T5	N5	S5	
Andropogon scoparius	Little Bluestem	G5T5	N5	S4	
x Agrohordeum macounii	Macoun's Wild-rye	GNA	NNA	SNA	
Agropyron smithii	Western Wheatgrass	G5	N5	S5	
Agropyron subsecundum	Slender Wheatgrass	G5T5	N5	S5	
Agropyron trachycaulum	Slender Wheatgrass	G5T5	N5	S5	
Agrostis scabra var. scabra	Hair Grass	G5T5	NNR	\$4	
Apocynum cannabinum var. hypericifolium	Hemp Dogbane	G5T5	N5	S4 S4	
Calamagrostis canadensis var. canadensis	Marsh Reedgrass	G5T5	N5	S4	
Carex aquatilis var. aquatilis	Water Sedge	G5T5	N5	S4	
Carex pensylvanica	Sun Sedge	G5T5	N5	S5	
Elaeagnus commutata	Silverberry	G5	N5	S4	
Elymus canadensis var. canadensis	Canada Wild Rye	G5T5	N5	S4	
Equisetum hyemale var. affine	Common Scouring-rush	G5T5	N5	S4	
Erigeron philadelphicus var. philadelphicus	Philadelphia Fleabane	G5T5	N5	S4	
Fragaria virginiana var. glauca	Smooth Wild Strawberry	G5T5	N5	S5	
Gentiana amarella var. acuta;	Autumn Dwarf-gentian	G5T5	N5	S4	
Gaura coccinea	Scarlet Gaura	G5	N4N5	S4	
Helianthus petiolaris ssp. petiolaris	Prairie Sunflower	G5T5	N5	S4	
Hordeum jubatum ssp. jubatum	Fox-tail Barley	G5T5	N5	S5	
Juniperus communis var. depressa	Common Juniper	G5T5	N5	S4	
Monarda fistulosa var. menthifolia	Wild Bergamot	G5T5	NNR	S4	
Piptatherum micranthum?	Little-seed Rice Grass	G5	N5	S4	
Populus deltoides var. occidentalis	Eastern Cottonwood	G5T5	N5	S4	
Populus tremuloides	Trembling Aspen	G5	N5	S5	
Pyrola asarifolia ssp. asarifolia	Pink Wintergreen	G5T5	N5	S5	
Prunus virginiana var. virginiana	Chokecherry	G5T5	N5	S5	
Rhamnus alnifolia	Alder-leaved Buckthorn	G5	N5	S4	
Rhus radicans var. rydbergii	Poison Ivy	G5	N5	S4	
Ribes oxycanthoides	Smooth Gooseberry	G5	N5	S4	
Rorippa palustris ssp. palustris	Bog Yellow-cress	G5T5	NNR	S4	
Sambucus racemosa var. racemosa	Red Elderberry	G5T5	N5	S2	
Spiraea alba var. alba	Narrow-leaved Meadow-sweet	G5T5	N5	S4	



Stachys palustris var. pilosa	Hairy Hedge-nettle	G5T5	N5	S4	
Symphoricarpos albus var. albus	Snowberry	G5T5	N5	S5	
Symphyotrichum laeve var. geyeri	Smooth Blue Aster	G5T5	N5	S5	
Vicia americana ssp. americana	American Purple Vetch	G5T5	N5	S5	
Viola adunca var. adunca	Early Blue Violet	G5T5	N5	S5	
Xanthisma spinulosum var. spinulosum	Spiny Goldenaster	G5T4	N4N5	S4	



### Series B-II: Maple Grove Baseline Survey Data

Tables within this section contain inventory of survey and field assessment data collected to supplement the baseline inventory efforts at Maple Grove. Survey and field assessment monitoring efforts associated with the baseline inventory were conducted between 2019 to 2021. Details on survey activities can be found in section 4.1.2 of the report.

#### **Maple Grove Bird Survey Data**

Haemorhous mexicanus

House Finch

Meewasin initiated a series of nine bird surveys during various seasons of heightened activity across the Maple Grove site. The following table contains a summarized list of the bird species identified.

Table B-II 1. Summary of bird survey species observed at Maple Grove. Surveys conducted by Meewasin between 2020 and 2021 in association with the baseline inventory.

SARA Global Subnational **COSEWIC** SCIENTIFIC NAME **COMMON NAME Observations** Count **National Rank** Rank Rank Schedule Actitis macularius Spotted Sandpiper 1 1 G5 N5B,N3N,N5M S5B Agelaius phoeniceus Red-winged Blackbird 1 1 G5 N5B.N5N.N5M S5B.SUN Anas acuta Northern Pintail G5 N5B.N5N.N5M S5B Anas platyrhynchos Mallard 1 2 G5 N5B,N5N,N5M S<sub>5</sub>B Ruby-throated N5B.N5M S5B.S4M Archilochus colubris 2 G5 Hummingbird 1 Bombvcilla cedrorum Cedar Waxwing 2 5 G5 N5B,N5N,N5M S<sub>5</sub>B Branta canadensis Canada Goose 3 10 G5 N5B,N5N,N5M S<sub>5</sub>B Bubo virginianus **Great Horned Owl** S4 1 1 G5 N5 Bucephala albeola Bufflehead G5 N5B,N5N,N5M S5B 1 1 N5B,N5N,N5M S<sub>5</sub>B Bucephala clangula Common Goldeneve G5 Special Buteo regalis G4 S3B Ferruginous Hawk N3B.N3N.NUM Concern Threatened Swainson's Hawk 1 1 G5 N4N5B.N4N5M S4B Buteo swainsoni Catharus fuscescens Veery 1 4 G5 N5B.N5M S4B Catharus ustulatus Swainson's Thrush 1 1 G5 N5B.N5M S<sub>5</sub>B Colaptes auratus Northern Flicker 3 3 G5 N5B,N5N,N5M S5B.SUN Corvus brachyrhynchos American Crow 3 6 G5 N5B,N5N,N5M S5B.S4N Corvus corax Common Raven 1 2 G5 N5 S5 Cvanocitta cristata 1 1 G5 N5B,N5N,NNRM S5 Blue Jav Dryobates pubescens Downy Woodpecker 4 7 S5 G5 N5 Dumetella carolinensis **Gray Catbird** 5 N5B.N5M S<sub>5</sub>B G5 N5B,N5M Least Flycatcher 2 S<sub>5</sub>B Empidonax minimus 1 G5 N5B.N5N.N5M S5B.S5N Falco columbarius Merlin 1 1 G5 Not at Risk N5B,N5M Geothlypis trichas Common Yellowthroat 1 1 G5 S5B

G5

N5



S4B

Haemorhous purpureus	Purple Finch	1	1	G5	N5B,N5N,N5M	S5B,S4N		
							Special	
Hirundo rustica	Barn Swallow	2	4	G5	N3N4B,N3N4M	S4B	Concern	Threatened
Larus delawarensis	Ring-billed Gull	2	19	G5	N5B,N5N,N5M	S5B		
Megaceryle alcyon	Belted Kingfisher	2	2	G5	N5B,N4N5N,N5M	S4B		
Melospiza melodia	Song Sparrow	3	4	G5	N5B,N5N,N5M	S5B		
Mergus merganser	Common Merganser	1	10	G5	N5B,N5N,N5M	S5B		
Molothrus ater	Brown-headed Cowbird	2	4	G5	N5B,NUN,N5M	S5B,SUN		
Petrochelidon pyrrhonota	Cliff Swallow	1	2	G5	N5B,N5M	S5B		
Pica hudsonia	Black-billed Magpie	1	7	G5	N5	S5		
Pipilo maculatus	Spotted Towhee	4	10	G5	N5B,N5M	S5B		
	Black-capped							
Poecile atricapillus	Chickadee	4	12	G5	N5	S5		
Seiurus aurocapilla	Ovenbird	1	1	G5	N5B,N5M	S5B		
Setophaga coronata	Yellow-rumped Warbler	2	8	G5	N5B,N4N,N5M	S5B		
Setophaga palmarum	Palm Warbler	1	1	G5	N5B,N5M	S5B		
Setophaga petechia	Yellow Warbler	3	8	G5	N5B,N5M	S5B		
Setophaga striata	Blackpoll Warbler	1	1	G5	N5B,N5M	S5B,S4M		
	White-breasted							
Sitta carolinensis	Nuthatch	2	2	G5	N5	S5		
Spinus tristis	American Goldfinch	4	14	G5	N5B,N5N,N5M	S5B		
Spizella pallida	Clay-colored Sparrow	3	7	G5	N5B,N5M	S5B		
Spizella passerina	Chipping Sparrow	1	1	G5	N5B,N5M	S5B		
Sterna hirundo	Common Tern	1	1	G5	N5B,NUN,N5M	S5B	Not at Risk	
Toxostoma rufum	Brown Thrasher	1	1	G5	N5B,NUN,N5M	S5B		
Troglodytes aedon	House Wren	2	4	G5	N5B,N5M	S5B		
Turdus migratorius	American Robin	4	23	G5	N5B,N4N5N,N5M	S5B,SUN		
Tyrannus tyrannus	Eastern Kingbird	1	4	G5	N5B,N5M	S5B		
Vireo gilvus	Warbling Vireo	1	2	G5	N5B,N5M	S5B		
Vireo olivaceus	Red-eyed Vireo	2	4	G5	N5B,N5N,N5M	S5B		
Zenaida macroura	Mourning Dove	3	12	G5	N5B,N5N,N5M	S5B		



#### **Maple Grove Grassland Range Health Assessment Data**

The following tables contain data from grassland range health assessment surveys conducted in the remnant hayfield areas on the Maple Grove site. A series of five range health assessments were performed at each remnant hayfield area (respectively positioned at the northeast and southwest site regions). Survey efforts were initiated by Meewasin on 06/10/2021. Data recorded using the *Saskatchewan Native Grassland and Forest Rangeland Health Assessment Field Workbook* (PCAP, 2008a). The process and results from this data set are discussed in more detail in report sections 4.3.2 and 4.4.2.

Table B-II 2. Saskatchewan Grassland Range Health Assessment Data Collected at Maple Grove Northeast Hayfield. Meewasin. Date: 06/10/2021.

	-· ··						
	Site Name	Maple Grove					
Assessm	ent Type	Saskatchewan Grass	land Range	Health Assessment			
Assessm	nent Date	6/10/2021		Observer(s)	BP, JH, EK (MVA)		
			Q	uadrat Location Information	on		
Transect Locati	ion Description	Northeast hayfield are	ea				
Quad	rat ID	MG-RHA-2021-	Q01	Quadrat GPS Location	13 U 0391112 5780	0537	
Ecore	egion	MG		Ecosite	LM-G		
Soil Ma	ap Unit	Loam Ecosit	е	Soil Type			
			Domi	inant Plant Community Sp	ecies		
Grasses & Grasslil	kes (% Dry Weight)	Forbs (% Dry Wo	eight)	Shrubs (% Cover)	Trees (% Cover	r)	
Crested Whe	at Grass (95)	Alfalfa (5)		NA	NA		
			Range	e Health Assessment Ques	stions		
	Questions			Score	Comments		
No.	To	ppic	Actual	Potential	Comments		
1	Plant Co	ommunity	7	40	Quadrat comprised of only Crested Wheatgralteration from reference community due to la		
2	Expected Vegetat	ion Layers Present	7	10	Grass dominant, only one forb present.		
3	Presence of Invasiv	ve/ Noxious Species	Yes	Yes / No	Invasives species present: Crested Wheat	rass and Alfalfa	
3.1	Invasive / Noxio	us Species Cover	0	5	100% cover of invasive species in sample qu	ıadrat.	
3.2	Invasive / Noxious	Species Distribution	0	5	Area dominated by introduced and invasive p	plant species.	
4.1	Amount of Soil	Erosion Present	10	10	No signs of soil erosion.		
4.2	Amount of Ba	re Soil Present	5	5	No bare soil present.		
5	Amount of L	_itter Present	25	25	High amounts of litter present - lack of natura	al disturbance processes.	
		Gra	ssland Ra	nge Health Assessment So	core Summary		
		Section Su	btotal Scor	res (Question No. Range)	Actual Score	Potential Score	
Healthy 75-100		Section	n A: Vegeta	tion Cover (Questions 1-3)	1-3)		
Problems 50-74%	; Unhealthy <50%	Section B:	Hydrologic	Function & Soil Protection (Questions 4-5)			
To	otal Range Health Sc	ore	Ran	ge Health Condition	General Comme	nts	
Actual Score 54	Potential Score 100	Overall Rating (%) 54%	Hea	althy with Problems	Quadrat area containing mostly invasive vinatural disturbance processes. Site previous		



Table B-II 3. Saskatchewan Grassland Range Health Assessment Data Collected at Maple Grove Northeast Hayfield. Meewasin. Date: 06/10/2021.

00/10/2021.		T				7	
	/ Site Name	Maple Grove					
	ment Type	Saskatchewan Grassla	and Range				
Assess	ment Date	6/10/2021		Observer(s) (Organization)	BP, JH, EK (MVA)		
			Quadra	at Location Information			
Transect Loca	ation Description	Northeast hayfield are	а				
Qua	drat ID	MG-RHA-2021-C	202	Quadrat GPS Location	13 U 0381	625 5771885	
Eco	region	AP		Ecosite	L	M-B	
Soil I	Map Unit	Loam Ecosite		Soil Type			
		[	Dominant	Plant Community Species			
	rasslikes (% Dry eight)	Forbs (% Dry We	ight)	Shrubs (% Cover)	Trees	(% Cover)	
	(95); Kentucky Blue ass (5)	NA		NA		NA	
		R	ange Hea	alth Assessment Questions			
	Questions			Score	0		
No.	Т	opic	Actual	Potential	Con	nments	
1	Plant C	Community	7	40	Significant alteration from to lack of disturbance.	reference community due	
2	Expected Vegeta	ation Layers Present	3	10	Forb layer absent.		
3	Presence of Invas	ive/ Noxious Species	Yes	Yes / No	Invasive species preser Blue Grass	nt: Smooth Brome, Kentucky	
3.1	Invasive / Noxio	ous Species Cover	0	5			
3.2	Invasive / Noxious	Species Distribution	0	5			
4.1	Amount of Soi	I Erosion Present	7	10		ea where historic structure als and signs of excavation (s).	
4.2	Amount of B	are Soil Present	3	5	Bare ground is 100% hur development).		
5	Amount of	Litter Present	25	25			
		Grassland	d Range I	lealth Assessment Score Sumn	nary		
Hoolthy 75 10	00%; Healthy with			I Scores (Question No. Range)	Actual Score	Potential Score	
	%; Unhealthy <50%	Se	ection A: V	/egetation Cover (Questions 1-3)	10	60	
1 100161113 30-14	70, Officiality Coo70	Section B: Hydrologic	Function of	& Soil Protection (Questions 4-5)	<del>4-5)</del> 35 40		
	Total Range Health		F	Range Health Condition		nments	
Actual Score 45	Potential Score 100	Overall Rating (%) 45%		Unhealthy	connected to the former evidence of slumping towal species dominate vegetation	oment and disturbance occurred Artist Studio structure. Some rds adjacent roadway. Invasive in community in immediate area. Crested Wheatgrass also present	



Table B-II 4. Saskatchewan Grassland Range Health Assessment Data Collected at Maple Grove Northeast Hayfield. Meewasin. Date: 06/10/2021

06/10/2021.							
Location	/ Site Name	Maple Grove					
Assess	ment Type	Saskatchewan Grassland Rang	ge Health As	ssessment			
Assess	sment Date	6/10/2021		Observer(s) (Organization)	BP, JH, EK (MVA)		
		Quad	rat Locatio	n Information			
Transect Loca	ation Description	Northeast hayfield area					
Qua	adrat ID	MG-RHA-2021-Q03		Quadrat GPS Location		596 5771890	
	pregion	MG		Ecosite	L	.M-G	
Soil I	Map Unit	Loam Ecosite		Soil Type			
		Dominar	nt Plant Cor	mmunity Species			
W	rasslikes (% Dry leight)	Forbs (% Dry Weight	t)	Shrubs (% Cover)	Trees	(% Cover)	
	me (55); Crested grass (42)	Alfalfa (2)		Highbush Cranberry (1)			
		Range He	ealth Asses	sment Questions			
	Questions			Score	Comi	ments	
No.		Topic	Actual	Potential	Collin	ments	
1	Plar	nt Community	7	40	Significant alteration from reference community due to lack of disturbance.		
2	Expected Veg	etation Layers Present	7	10			
3	Presence of Inv	vasive/ Noxious Species	Yes	Yes / No	Invasive species present: Smooth Brome Crested Wheatgrass, Alfalfa		
3.1	Invasive / No	oxious Species Cover	0	5			
3.2	Invasive / Noxi	ous Species Distribution	0	5			
4.1	Amount of	Soil Erosion Present	7	10	Some signs of soil ero animals).		
4.2	Amount o	f Bare Soil Present	5	5	Pocket Gopher activity bare soil present.	as cause for some	
5	Amount	of Litter Present	25	25			
		Grassland Range	<b>Health Ass</b>	sessment Score Summary			
Hoalthy 75 10	00%; Healthy with	S	ection Sub	total Scores (Question No. Range	e) Actual Score	Potential Score	
	%; Unhealthy <50%			A: Vegetation Cover (Questions 1-3		60	
1 100101113 00-14				tion & Soil Protection (Questions 4-5	37	40	
	Total Range Healt		F	Range Health Condition		ments	
Actual Score	Potential Score	Overall Rating (%)				ty in area. Vegetation	
51	100	51%	,	Healthy with Problems		mostly of introduced / species.	



Table B-II 5. Saskatchewan Grassland Range Health Assessment Data Collected at Maple Grove Northeast Hayfield. Meewasin. Date: 06/10/2021

06/10/2021.						
Location	/ Site Name	Maple Grove				
Assess	ment Type	Saskatchewan Grassland Rang	ge Health As	ssessment		
Assess	sment Date	6/10/2021		Observer(s) (Organization)	BP, JH, EK (MVA)	
		Quad	rat Locatio	n Information		
Transect Loca	ation Description	Northeast hayfield area				
Qua	adrat ID	MG-RHA-2021-Q04		Quadrat GPS Location	13 U 038	1544 5771872
Eco	region	MG		Ecosite	l	_M-G
Soil I	Map Unit	Loam Ecosite		Soil Type		
		Dominar	t Plant Cor	nmunity Species		
	rasslikes (% Dry eight)	Forbs (% Dry Weigh	t)	Shrubs (% Cover)	Trees	(% Cover)
Smooth Brome; I	Kentucky Blue Grass	Canada Thistle				
		Range He	ealth Asses	sment Questions		
	Questions			Score	0	
No.		Topic	Actual	Potential	Com	ments
1	Plan	t Community	7	40	Significant alteration from reference community due to lack of disturbance.	
2	Expected Veg	etation Layers Present	7	10	, , , , , , , , , , , , , , , , , , ,	
3	Presence of Inv	/asive/ Noxious Species	Yes	Yes / No	Invasive species pre Kentucky Blue Grass,	
3.1	Invasive / No	oxious Species Cover	0	5	-	
3.2	Invasive / Noxio	ous Species Distribution	0	5		
4.1	Amount of S	Soil Erosion Present	10	10	No soil erosion preser	nt.
4.2	Amount of	f Bare Soil Present	5	5	No bare soil present.	
5	Amount	of Litter Present	25	25		
				sessment Score Summary		
Healthy 75-10	00%; Healthy with	S		total Scores (Question No. Range		Potential Score
	%; Unhealthy <50%			A: Vegetation Cover (Questions 1-3		60
. 100.0 00 7 1				tion & Soil Protection (Questions 4-5	5) 40	40
	Total Range Healt		F	Range Health Condition		ments
Actual Score	Potential Score	Overall Rating (%)		ļ		d on a mid to gently
54	100	54%		Healthy with Problems	of Canada Thistle ar	sition. Higher coverage and Alfalfa noted in this al area.



Table B-II 6. Saskatchewan Grassland Range Health Assessment Data Collected at Maple Grove Northeast Hayfield. Meewasin. Date: 06/10/2021

06/10/2021.						
Location	n / Site Name	Maple Grove				
	sment Type	Saskatchewan Grassland Rang	ge Health A	ssessment		
Asses	sment Date	6/10/2021		Observer(s) (Organization)	BP, JH, EK (MVA)	
		Quad	rat Locatio	n Information		
Transect Loc	ation Description	Northeast hayfield area				
Qu	adrat ID	MG-RHA-2021-Q05		Quadrat GPS Location	13 U 0381	536 5771831
	oregion	MG		Ecosite	L	M-G
Soil	Map Unit	Loam Ecosite		Soil Type		
		Dominar	nt Plant Cou	mmunity Species		
	Grasslikes (% Dry Veight)	Forbs (% Dry Weigh	t)	Shrubs (% Cover)	Trees	% Cover)
	(60); Kentucky Blue ass (40)					
		Range He	ealth Asses	sment Questions		
	Questions			Score	Come	nanta
No.		Topic	Actual	Potential	Comments	
1	Plar	nt Community	7	40	Significant alteration from reference community due to lack of disturbance.	
2	Expected Veg	etation Layers Present	3	10	Forb layer absent.	
3	Presence of Inv	vasive/ Noxious Species	Yes	Yes / No	Invasive Species Pre- Kentucky Blue Grass	sent: Smooth Brome,
3.1	Invasive / No	oxious Species Cover	0	5		
3.2	Invasive / Noxi	ous Species Distribution	0	5		
4.1	Amount of	Soil Erosion Present	10	10	No soil erosion presen	t.
4.2		f Bare Soil Present	5	5	No bare soil present.	
5	Amount	of Litter Present	25	25		
				sessment Score Summary	,	
Healthy 75-1	00%; Healthy with	S		ototal Scores (Question No. Range		Potential Score
	1%; Unhealthy <50%			A: Vegetation Cover (Questions 1-	,	60
	Trobleme do Tryo, emiliarly 10070		lydrologic Function & Soil Protection (Questions 4-5			40
	Total Range Healt		F	Range Health Condition	Comr	
Actual Score Potential Score Overall Rating (%) 50 100 50%		Overall Rating (%) 50%	Healthy with Problems		Quadrat placed at toe position of mid-grade slope. Heavy litter coverage.	



Table B-II 7. Saskatchewan Grassland Range Health Assessment Data Collected at Maple Grove Southwest Hayfield. Meewasin. Date: 06/10/2021

06/10/2021.						
Location	/ Site Name	Maple Grove				
Assess	sment Type	Saskatchewan Grassland Rang	ge Health As	ssessment		
Assess	sment Date	6/10/2021		Observer(s) (Organization)	BP, JH, EK (MVA)	
		Quad	rat Locatio	n Information		
Transect Loc	ation Description	Southwest hayfield area				
Qua	adrat ID	MG-RHA-2021-Q06		Quadrat GPS Location	52.0813717	7; -106.7349418
Eco	oregion	PEZ		Ecosite	S	UB-B
Soil	Map Unit	Overflow		Soil Type		
		Dominar	nt Plant Cor	mmunity Species		
	irasslikes (% Dry /eight)	Forbs (% Dry Weigh	t)	Shrubs (% Cover)	Trees	(% Cover)
Smooth	Brome (80)	Northern Bedstraw (5); Co Dandelion (5)	mmon	Western Snowberry (10)		
		Range He	ealth Asses	sment Questions		
	Questions	3		Score	Comments	
No.		Topic	Actual	Potential		
1	Plar	nt Community	7	40	Significant alteration from reference community.	
2	Expected Veg	etation Layers Present	7	10	Forb layer consistently reduced.	
3	Presence of Inv	vasive/ Noxious Species	Yes	Yes / No	Invasive Species Present: Smooth Brome, Common Dandelion	
3.1	Invasive / No	oxious Species Cover	0	5		
3.2	Invasive / Noxi	ous Species Distribution	0	5		
4.1		Soil Erosion Present	10	10	No soil erosion preser	nt.
4.2	Amount o	f Bare Soil Present	5	5	No bare soil present.	
5	Amount	of Litter Present	25	25		
				sessment Score Summary		
Healthy 75-1	00%; Healthy with	S		total Scores (Question No. Range	<u> </u>	Potential Score
	1%; Unhealthy <50%			A: Vegetation Cover (Questions 1-		60
		•		tion & Soil Protection (Questions 4-	5) 40	40
	Total Range Healt		F	Range Health Condition		ments
Actual Score	Potential Score	Overall Rating (%)				ner hayfield / sporting
54	100	54%	,	Healthy with Problems		rage of Smooth Brome ada Thistle.



Table B-II 8. Saskatchewan Grassland Range Health Assessment Data Collected at Maple Grove Southwest Hayfield. Meewasin. Date: 06/10/2021.

06/10/2021.							
Location	/ Site Name	Maple Grove					
Assess	ment Type	Saskatchewan Grassland Rang	ge Health As	ssessment			
Assess	ment Date	6/10/2021		Observer(s) (Organization)	BP, JH, EK (MVA)		-
		Quad	rat Locatio	n Information			
Transect Loca	ation Description	Southwest hayfield area					
Qua	adrat ID	MG-RHA-2021-Q07		Quadrat GPS Location	52.0813641	; -106.7354195	
	pregion	PEZ		Ecosite	S	UB-B	
Soil I	Map Unit	Overflow		Soil Type			
		Dominar	t Plant Cor	mmunity Species			
	rasslikes (% Dry eight)	Forbs (% Dry Weigh	•	Shrubs (% Cover)	Trees	(% Cover)	
	(30); Kentucky Blue iss (60)	Canada Thistle (5); Vetch s Northern Bedstraw (2); Con Dandelion (1)		Western Snowberry (2)			
		Range He	ealth Asses	sment Questions			
	Questions Score Comments						
No.		Topic	Actual	Potential	Com	ments	
1	Plan	nt Community	7		Significant alteration from reference community.		
2	Expected Veg	etation Layers Present	7	10	•		
3	Presence of Inv	vasive/ Noxious Species	Yes	Yes / No	Invasive Species Pre Kentucky Blue Grass, Common Dandelion		ne,
3.1	Invasive / No	oxious Species Cover	0	5			
3.2	Invasive / Noxio	ous Species Distribution	0	5			
4.1	Amount of	Soil Erosion Present	10	10	No soil erosion preser	nt.	
4.2	Amount of	f Bare Soil Present	5		No bare soil present.		
5	Amount	of Litter Present	25	25			
		Grassland Range	<b>Health Ass</b>	sessment Score Summary			
Healthy ZE 40	2004 . 1 la althur with	S	ection Sub	total Scores (Question No. Range)	Actual Score	Potential Scor	re
	00%; Healthy with %; Unhealthy <50%		Section	A: Vegetation Cover (Questions 1-3)	14		60
1 100161118 30-74	70, Officiality COU76	Section B: Hydr	ologic Funct	tion & Soil Protection (Questions 4-5)	40		40
	Total Range Healt	h Score	F	Range Health Condition	Com	ments	
Actual Score	Potential Score	Overall Rating (%)				d by exotic grasses	
54	100	54%	,	Healthy with Problems	representing dom	Kentucky Blue Gra stroduced species inant cover in area erally.	,



Table B-II 9. Saskatchewan Grassland Range Health Assessment Data Collected at Maple Grove Southwest Hayfield. Meewasin. Date: 06/10/2021

06/10/2021.						
	/ Site Name	Maple Grove				
Assess	sment Type	Saskatchewan Grassland Rang	ge Health As			
Assess	sment Date	6/10/2021		Observer(s) (Organization)	BP, JH, EK (MVA)	
		Quad	rat Locatio	n Information		
Transect Loc	ation Description	Southwest hayfield area				
Qua	adrat ID	MG-RHA-2021-Q08		Quadrat GPS Location	52.080964	; -106.735734
	oregion	PEZ		Ecosite	S	UB-B
Soil I	Map Unit	Overflow		Soil Type		
		Dominar	nt Plant Cor	mmunity Species		
	rasslikes (% Dry eight)	Forbs (% Dry Weight	t)	Shrubs (% Cover)	Trees	(% Cover)
Smooth	Brome (80)	Vetch spp. (1); Goldenrod sp Canada Thistle (3); Northern I (1)				
		Range He	ealth Asses	sment Questions		
	Questions			Score	Comi	ments
No.		Topic	Actual	Potential		
1	Plar	nt Community	7	40	Significant alteration from reference community.	
2	Expected Veg	getation Layers Present	7	10	•	
3	Presence of Inv	vasive/ Noxious Species	Yes	Yes / No	Invasive Species Present: Smooth Brome, Canada Thistle	
3.1	Invasive / No	oxious Species Cover	0	5		
3.2	Invasive / Noxi	ous Species Distribution	0	5		
4.1		Soil Erosion Present	10	10	No soil erosion presen	t.
4.2		f Bare Soil Present	5	5	No bare soil present.	
5	Amount	t of Litter Present	25	25		
				sessment Score Summary		
Healthy 75-1/	00%; Healthy with	S		total Scores (Question No. Range		Potential Score
	1%; Unhealthy <50%			A: Vegetation Cover (Questions 1-3	_	60
. 100.0 30 11				tion & Soil Protection (Questions 4-5		40
	Total Range Healt		F	Range Health Condition		ments
Actual Score 54	Potential Score	Overall Rating (%) 54%		Healthy with Problems	Mostly Smooth Brome coverage in area.  Quadrat positioned in patch of Solidago	
34	100	J4 /0			(Goldenro	d) species.



Table B-II 10. Saskatchewan Grassland Range Health Assessment Data Collected at Maple Grove Southwest Hayfield. Meewasin. Date: 06/10/2021.

06/10/2021.						
Location	n / Site Name	Maple Grove				
Assess	sment Type	Saskatchewan Grassland Rang	ge Health As			
Assess	sment Date	6/10/2021		Observer(s) (Organization)	BP, JH, EK (MVA)	
		Quad	rat Locatio	n Information		
Transect Loc	ation Description	Southwest hayfield area				
Qua	adrat ID	MG-RHA-2021-Q09		Quadrat GPS Location	52.0806499	; -106.7359358
Eco	oregion	PEZ		Ecosite	S	UB-B
Soil	Map Unit	Overflow		Soil Type		
		Dominan	t Plant Cor	mmunity Species		
	Grasslikes (% Dry Veight)	Forbs (% Dry Weight	t)	Shrubs (% Cover)	Trees	(% Cover)
	(40); Kentucky Blue ass (35)	Solidago sp. (10); Smooth Bl (2); Canada Thistle (1		Western Snowberry (2)		
		Range He	ealth Asses	sment Questions		
	Questions	3		Score	Comments	
No.		Topic	Actual	Potential	Comi	nents
1	Plar	nt Community	7	40	Significant alteration from reference community.	
2	Expected Veg	etation Layers Present	10	10		
3	Presence of Inv	vasive/ Noxious Species	Yes	Yes / No	Invasive Species Pre Kentucky Blue Grass,	
3.1	Invasive / No	oxious Species Cover	0	5	-	
3.2	Invasive / Noxi	ous Species Distribution	0	5		
4.1		Soil Erosion Present	10	10	No soil erosion.	
4.2		f Bare Soil Present	5	5	No bare ground.	
5	Amount	of Litter Present	25	25		
		Grassland Range	Health Ass	sessment Score Summary		
Hoalthy 75 1	00%; Healthy with	S		total Scores (Question No. Range		Potential Score
	1%; Unhealthy <50%			A: Vegetation Cover (Questions 1-3		60
. 100101110 00 14	•		ologic Func	tion & Soil Protection (Questions 4-5	5) 40	40
	Total Range Healt		F	Range Health Condition		ments
Actual Score	Potential Score	Overall Rating (%)		J		d in forb layer in this
57	100	57%		Healthy with Problems	surrounding areas).	(as compared to Position of quadrat in n-covered trench.



Table B-II 11. Saskatchewan Grassland Range Health Assessment Data Collected at Maple Grove Southwest Hayfield. Meewasin. Date: 06/10/2021

06/10/2021.						
Location	/ Site Name	Maple Grove				
Assess	ment Type	Saskatchewan Grassland Rang	ge Health As	ssessment		
Assess	sment Date	6/10/2021		Observer(s) (Organization)	BP, JH, EK (MVA)	
		Quad	rat Locatio	n Information		
Transect Loca	ation Description	Southwest hayfield area				
Qua	adrat ID	MG-RHA-2021-Q10		Quadrat GPS Location	52.0802564	; -106.7365051
Eco	oregion	PEZ		Ecosite	S	UB-B
Soil I	Map Unit	Overflow		Soil Type		
		Dominan	t Plant Cor	nmunity Species		
	rasslikes (% Dry eight)	Forbs (% Dry Weight	t)	Shrubs (% Cover)	Trees	(% Cover)
Crested W	heatgrass (80)	Canada Thistle (5)		Western Snowberry (15)		
		Range He	ealth Asses	sment Questions		
	Questions			Score	Comments	
No.		Topic	Actual	Potential		
1	Plar	nt Community	7	40	Significant alteration from reference community.	
2	Expected Veg	etation Layers Present	7	10	Forb layer reduced.	
3	Presence of Inv	vasive/ Noxious Species	Yes	Yes / No	Invasive Species Present: Crested Wheatgrass, Canada Thistle	
3.1	Invasive / No	oxious Species Cover	0	5		
3.2	Invasive / Noxi	ous Species Distribution	0	5		
4.1	Amount of	Soil Erosion Present	10	10	No soil erosion presen	t.
4.2	Amount o	f Bare Soil Present	5	5	No bare soil present.	
5	Amount	of Litter Present	25	25		
				sessment Score Summary		
Hoalthy 75 10	00%; Healthy with	S		total Scores (Question No. Range	-	Potential Score
	%; Unhealthy <50%			A: Vegetation Cover (Questions 1-3		60
7 100101110 00 14	70, Chilodithy 10070	Section B: Hydro	ologic Funct	tion & Soil Protection (Questions 4-5	5) 40	40
	Total Range Healt		F	Range Health Condition	Com	ments
Actual Score	Potential Score	Overall Rating (%)	Healthy with Problems			n pocket of crested
54	100	54%	'	iloulary with Floorenis	wheatgrass. High litter load in area.	



#### **Maple Grove Forest Range Health Assessment Data**

The following tables contain data from forest health assessment surveys conducted in the forested regions of Maple Grove at permanent monitoring plot locations. Survey efforts were initiated by Meewasin on 09/29/2021. Data recorded mirrors the Saskatchewan Forest Range Health Assessment – Indicator Method field data sheet provided in the Saskatchewan Native Grassland and Forest Rangeland Health Assessment Field Workbook (PCAP, 2008a). The process and results from this data set are discussed in more detail in report sections 4.3.2 and 4.4.2.

Table B-II 12. Saskatchewan Forested Range Health Assessment Data Collected at Maple Grove Permanent Plot Locations. Meewasin. Date: 09/29/2021.

	/ Site Name			Maple Grove		
	ment Type		skatchewar	Forest Range Health Assessment		
Assess	ment Date	9/29/2021		Observer(s) (Organization)	BP	(MVA)
		Quad	rat Locatio	n Information		
Transect Loca	ation Description			Permanent monitoring post location	n	
Qua	ndrat ID	MG-FHA-2021-PP01		Quadrat GPS Location		
	oregion	AP		Ecosite	N	IO-C
Soil I	Map Unit			SK Forest Ecosite		
		Dominar	t Plant Co	nmunity Species		
	rasslikes (% Dry eight)	Forbs (% Dry Weight	t)	Shrubs (% Cover)	Trees	(% Cover)
Smooth	n Brome (5)	Bearberry (5); Goldenrod spp. spp. (1); Canada Thistle (2); I Bedstraw (3); Sweet Clove	Northern	Rose spp. (5); Western Snowberry (15); Red-osier Dogwood (35); Highbush Cranbery (5)		i); Salix spp. (25)
		Forested Range	land Health	Assessment Questions		
	Questions Score					manta
No.		Topic	Actual	Potential	Comments	
1	Plar	nt Community	30	40		
2	Expected Veg	etation Layers Present	10	20		
3	Presence	of Invasive Species	0	10		<b>esent</b> : Canada Thistle, Clover
4.1	Amount of	Soil Erosion Present	3	5	Evidence of	wildlife trails
4.2	Amount o	f Bare Soil Present	10	10		
5	Thickness	of LFH organic layer	15	15		
		Forested Rangelan	d Health As	ssessment Score Summary		
Hoolthy 75 10	00%; Healthy with			Question No. Range)	Actual Score	Potential Score
	%; Unhealthy <50%	Section A: Ve	getation Co	ver (Questions 1-3)	40	70
1 100101113 00-14			Function & S	oil Protection (Questions 4-5)	28	30
	Total Forest Healt		F	Forest Health Condition	Com	ments
Actual Score	Potential Score	Overall Rating (%)		Healthy with Problems		
68	100	68%		ileality with Flobleins		



Table B-II 13. Saskatchewan Forested Range Health Assessment Data Collected at Maple Grove Permanent Plot Locations. Meewasin. Date: 09/29/2021.

Date. 03/23/2021	1 *					
Location	n / Site Name	Maple Grove				
Assess	sment Type	Saskatchewan Forest Range F	lealth Asses	ssment - Indicator Method		
Assess	sment Date	9/29/2021		Observer(s) (Organization)	BP (MVA)	
		Quad	rat Locatio	n Information		
Transect Loc	ation Description	Permanent monitoring post loc	ation			
Qua	adrat ID	MG-FHA-2021-PP02	)	Quadrat GPS Location		
Eco	oregion	AP		Ecosite	N	1O-C
Soil	Map Unit			SK Forest Ecosite		
		Dominar	nt Plant Cor	mmunity Species		
	Grasslikes (% Dry /eight)	Forbs (% Dry Weigh	t)	Shrubs (% Cover)	Trees	(% Cover)
Smooth	n Brome (5)	Sweet clover (2); Columbine (1); Aster spp. (2); Solidago spp. (2); Vetch spp. (1)		Red-osier Dogwood (35); Wolf Willow (10); Western Snowberry (5); Rose spp. (2); Lowbush Cranberry (2)	Salix spp. (20); Eu	ropean Buckthorn (2);
		Forested Range	land Health	Assessment Questions		
	Questions	5		Score	Comi	ments
No.		Topic	Actual	Potential	Com	nents
1	Plar	nt Community	30	40		
2	Expected Veg	getation Layers Present	10	20		
3	Presence	of Invasive Species	0	10	Invasive species pres Buckthorn, Sweet Clov	
4.1	Amount of	Soil Erosion Present	5	5		
4.2		f Bare Soil Present	10	10	Wildlife trails present.	
5	Thickness	of LFH organic layer	15	15		
		Forested Rangelan	d Health As	ssessment Score Summary		
Hoolthy 75 1	000/. Hoolthy with	S	Section Sub	total Scores (Question No. Range	Actual Score	Potential Score
	00%; Healthy with 1%; Unhealthy <50%		Section	A: Vegetation Cover (Questions 1-3	40	70
1100161113 30=74	-70, Officiality Coo76	Section B: Hydr	ologic Func	tion & Soil Protection (Questions 4-5	30	30
	Total Forest Healt		F	orest Health Condition	Comi	ments
Actual Score	Potential Score	Overall Rating (%)		Healthy with Problems		
70	100	70%		ricalary with Froblems		



Table B-II 14. Saskatchewan Forested Range Health Assessment Data Collected at Maple Grove Permanent Plot Locations. Meewasin.

Date: 09/29/2021	1.					
Location	n / Site Name	Maple Grove				
Assess	sment Type	Saskatchewan Forest Range H	lealth Asses	ssment - Indicator Method		
Assess	sment Date	9/29/2021		Observer(s) (Organization)	BP (MVA)	
		Quad	rat Locatio	n Information		
Transect Loc	ation Description	Permanent monitoring post loca	ation			
Qua	adrat ID	MG-FHA-2021-PP03	}	Quadrat GPS Location		
Eco	oregion	AP		Ecosite	N	IC-O
Soil	Map Unit			SK Forest Ecosite		
		Dominar	nt Plant Cor	mmunity Species		
	Grasslikes (% Dry /eight)	Forbs (% Dry Weigh	t)	Shrubs (% Cover)	Trees	(% Cover)
Smooth Brome	(3); Carex spp. (10)	Bearberry (2)		Western Snowberry (5); Chokecherry (5); European Buckthorn		
		Forested Range	land Health	Assessment Questions		
	Questions	3		Score	Com	ments
No.		Topic	Actual	Potential	Com	IIIEIIIS
1	Plar	nt Community	15	40		
2	Expected Veg	getation Layers Present	5	20	Missing low shrubs an	d forb layers.
3	Presence	of Invasive Species	0	10	Invasive species pre Buckthorn.	sent: European
4.1	Amount of	Soil Erosion Present	5	5		
4.2	Amount o	f Bare Soil Present	10	10		
5	Thickness	of LFH organic layer	15	15		
		Forested Rangelan	d Health As	ssessment Score Summary		
Hoolthy 75 4	000/ Lloolthy with	S	Section Sub	ototal Scores (Question No. Range	e) Actual Score	Potential Score
	00%; Healthy with 1%; Unhealthy <50%		Section	A: Vegetation Cover (Questions 1-	3) 20	70
1 100101113 30-74	-70, Officiality Coo76	Section B: Hydr	ologic Func	tion & Soil Protection (Questions 4-	5) 30	30
	Total Forest Healt		F	Forest Health Condition	Com	ments
Actual Score	Potential Score	Overall Rating (%)		Healthy with Problems		
50	100	50%		ricality with Floblettis		



Table B-II 15. Saskatchewan Forested Range Health Assessment Data Collected at Maple Grove Permanent Plot Locations. Meewasin. Date: 09/29/2021.

Date: 09/29/2021	' <u>.                                     </u>					
Location	/ Site Name	Maple Grove				
Assess	sment Type	Saskatchewan Forest Range F	lealth Asses	ssment - Indicator Method		
Assess	sment Date	9/29/2021	9/29/2021 Observer(s) (Organization)		BP (MVA)	
		Quad	rat Locatio	n Information		
Transect Loc	ation Description	Permanent monitoring post loc	ation			
Qua	adrat ID	MG-FHA-2021-PP04	ļ	Quadrat GPS Location		
Eco	oregion	AP		Ecosite	N	IC-O
Soil	Map Unit			SK Forest Ecosite		
		Dominar	nt Plant Cor	nmunity Species		
	irasslikes (% Dry leight)	Forbs (% Dry Weigh	t)	Shrubs (% Cover)	Trees	(% Cover)
Smooth Bro	me; Quackgrass	Thistle; Dandelion; Vet	ch	Rose; European Buckthorn; Snowberry; Chokecherry	Balsam Poplar	
		Forested Range	land Health	Assessment Questions		
Questions				Score	Cama	
No.		Topic	Actual	Potential	Comments	
1	Plar	nt Community	15	40		
2	Expected Veg	etation Layers Present	5	20		
3	Presence	of Invasive Species	0	10	Invasive species pre- European Buckthorn,	
4.1	Amount of	Soil Erosion Present	5	5	•	
4.2	Amount o	f Bare Soil Present	10	10		
5	Thickness	of LFH organic layer	15	15		
				ssessment Score Summary		
Healthy 75 1	00%; Healthy with	S		total Scores (Question No. Range		Potential Score
	1%; Unhealthy <50%			A: Vegetation Cover (Questions 1-3		70
7 100,01110 00 14		·	_ <u> </u>	tion & Soil Protection (Questions 4-5	30	30
	Total Forest Healt		F	Forest Health Condition	Com	ments
Actual Score	Potential Score	Overall Rating (%)		Healthy with Problems		
50	100	50%		ilouidiy widi i iobiciiis		



Table B-II 16. Saskatchewan Forested Range Health Assessment Data Collected at Maple Grove Permanent Plot Locations. Meewasin. Date: 09/29/2021.

Date: 09/29/2021	<u> </u>						
Location	/ Site Name	Maple Grove					
Assess	ment Type	Saskatchewan Forest Range H	lealth Asses	ssment - Indicator Method			
Assess	ment Date	9/29/2021		Observer(s) (Organization)	BP (MVA)		
		Quad	rat Locatio	n Information			
Transect Loca	ation Description	Permanent monitoring post loca	ation				
Qua	adrat ID	MG-FHA-2021-PP05	)	Quadrat GPS Location			
Eco	region	AP		Ecosite	N	IC-O	
Soil I	Map Unit			SK Forest Ecosite			
		Dominar	nt Plant Co	mmunity Species			
	rasslikes (% Dry eight)	Forbs (% Dry Weigh	t)	Shrubs (% Cover)	Trees	(% Cover)	
	ne (10); Western grass (10)	Thistle (5); Asparagus (3); Ve (1); Aster spp. (2); Solidago	etch spp. spp. (2)	Salix spp. (25); Red-osier Dogwood (35); Western Snowberr (10)	/ Balsam Poplar (2)		
		Forested Range	land Health	Assessment Questions			
	Questions			Score	Come	manta	
No.		Topic	Actual	Potential	Colli	Comments	
1	Plar	nt Community	30	40			
2	Expected Veg	etation Layers Present	10	20			
3	Presence	of Invasive Species	0	10	Invasive species pres exotic grasses	sent: Asparagus,	
4.1	Amount of	Soil Erosion Present	5	5	<u> </u>		
4.2	Amount o	f Bare Soil Present	10	10			
5	Thickness	of LFH organic layer	10	15	Deer trails in area - versomewhat compacted.	getation layer	
		Forested Rangelan	d Health A	ssessment Score Summary			
Haalthu ZE 40	2007 . 1 la althur with	S	Section Sub	ototal Scores (Question No. Range	e) Actual Score	Potential Score	
	00%; Healthy with !%; Unhealthy <50%		Section	A: Vegetation Cover (Questions 1-3	3) 40	70	
1 100161113 30-74	-70, Officiality < 50%	Section B: Hydr	ologic Func	tion & Soil Protection (Questions 4-	5) 25	30	
	Total Forest Healt	th Score	F	Forest Health Condition	Comr	nents	
Actual Score	Potential Score	Overall Rating (%)		Hoalthy with Problems			
65	100	65%		Healthy with Problems			



#### **Maple Grove Shoreline Riparian Health Assessment Data**

The following tables contain data from riparian health surveys conducted along the South Saskatchewan River shoreline composing the eastern site margin of Maple Grove. Survey efforts were initiated by Meewasin on 09/28/2021. Data recorded mirrors the Riparian Health Assessment Field Sheet provided in the Saskatchewan Streams and Small Rivers Riparian Health Assessment Field Workbook (PCAP, 2008b). The process and results from this data set are discussed in more detail in report sections 4.3.2 and 4.4.2.

Table B-II 17. Saskatchewan Riparian Health Assessment Data Collected at Maple Grove along South Saskatchewan River eastern site boundary. Dated: 09/28/2021.

Doungary. Dated:	on / Site Name	Maple Grove			
	ssment Type	Saskatchewan Riparian Hea	alth Assessment		
	Assessment Date 9/28/2021			Observer(s) (Organization)	BP, JH (MVA)
		Survey Lo	cation Information		
Transect Lo	cation Description	Eastern site margin (west ba	ank of the South Saskatch	newan River)	
Tra	ansect ID				
Stre	eam / River	South Saskatchewan River		Reach No.	1
		Riparian Health	<b>Assessment Questions</b>		
	Questions			Score	Comments
No.	To	ppic	Actual	Potential	Comments
1	Vegetative Cover of Fl	oodplain & Streambank	4	6	
2.1	Invasive Plant	Species (Cover)	2	3	
2.2	Invasive Plant S	Species (Density)	2	3	
3		Undesirable Herbaceous ecies	3	3	
4	Preferred Tree / Shrub Est	tablishment & Regeneration	6	6	
5	Utilization of Prefe	rred Trees & Shrubs	2	3	
6	Standing Decadent &	Dead Woody Material	2	3	
7	Streambank Roo	ot Mass Protection	4	6	
8	Human-Cause	ed Bare Ground	4	6	
9	Streambank Structurally	Altered by Human Activity	6	6	
10		o Active Lateral Cutting osion)	2	6	
11	Reach Structurally Alt	ered by Human Activity	2	3	
12	Stream Channel Incis	ement (vertical stability)	9	9	
		Riparian Health As	sessment Score Summa	ary	
Healthy 80- 100%; Healthy	Riparian Health Condition	Т	otal Riparian Health Sco	ore	Comments
with Problems		Actual Score	Potential Score	Overall Rating (%)	
60-79%; Unhealthy <60%	Healthy with Problems	48	63	76%	



Table B-II 18. Saskatchewan Riparian Health Assessment Data Collected at Maple Grove along South Saskatchewan River eastern site

boundary. Dated:					
	on / Site Name	Maple Grove			
Asses	ssment Type	Saskatchewan Riparian Hea	alth Assessment		
Asse	Assessment Date 9/28/2021			Observer(s) (Organization)	BP, JH (MVA)
		Survey Lo	cation Information		
Transect Lo	cation Description	Eastern site margin (west ba	ank of the South Saskatch	newan River)	
Tra	ansect ID				
Stre	eam / River	South Saskatchewan River		Reach No.	2
		Riparian Health	<b>Assessment Questions</b>		
	Questions			Score	Comments
No.	To	ppic	Actual	Potential	Comments
1	Vegetative Cover of F	oodplain & Streambank	4	6	
2.1	Invasive Plant	Species (Cover)	2	3	
2.2	Invasive Plant S	Species (Density)	2	3	
3		Undesirable Herbaceous ecies	3	3	
4	Preferred Tree / Shrub Es	tablishment & Regeneration	6	6	
5	Utilization of Prefe	rred Trees & Shrubs	2	3	
6	Standing Decadent 8	Dead Woody Material	2	3	
7	Streambank Roo	ot Mass Protection	4	6	
8	Human-Cause	ed Bare Ground	4	6	
9	Streambank Structurally	Altered by Human Activity	4	6	
10	Streambank Subject to Active Lateral Cutting (erosion)		2	6	
11	Reach Structurally Altered by Human Activity		2	3	
12	Stream Channel Incis	ement (vertical stability)	9	9	
		Riparian Health As	sessment Score Summa	ary	
Healthy 80- 100%; Healthy	Riparian Health Condition	Т	otal Riparian Health Sco	ore	Comments
with Problems		Actual Score	Potential Score	Overall Rating (%)	
60-79%; Unhealthy <60%	Healthy with Problems	46	63	73%	



# Series B-III: Maple Grove Baseline Autonomous Recording Unit Records

## Maple Grove Baseline Bat Survey Records (Wildlife Acoustic Echo Meter Touch Bat Detector ver. 2.8.6)

The following table contains comprehensive record of bat species identified during baseline bat survey initiatives at the Maple Grove site during the fall of 2020 and summer of 2021. These observations were captured using Wildlife Acoustic Echo Meter Touch Bat Detector version 2.8.6 on an Apple iPad Air2.

Table B-III 1. Maple Grove Bat Detection Survey Records. Meewasin. Survey dates 06/23/2021 & 09/24/2020. Wildlife Acoustic Echo Meter Touch Bat Detector version 2.8.6.

Survey Date: June 23, 2021								
Species Abbreviation	Species Name	Time Recording						
MYOLUC	Little Brown Bat (Myotis lucifugus)	10:45 PM						
MYOLUC	Little Brown Bat (Myotis lucifugus)	10:45 PM						
MYOLUC	Little Brown Bat (Myotis lucifugus)	10:44 PM						
EPTFUS	Big Brown Bat (Eptesicus fuscus)	10:41 PM						
LASNOC	Silver-Haired Bat (Lasionycteris noctivagans)	10:40 PM						
EPTFUS	Big Brown Bat (Eptesicus fuscus)	10:39 PM						
MYOLUC	Little Brown Bat (Myotis lucifugus)	10:36 PM						
MYOLUC	Little Brown Bat (Myotis lucifugus)	10:31 PM						
MYOLUC	Little Brown Bat (Myotis lucifugus)	10:29 PM						
EPTFUS	Big Brown Bat (Eptesicus fuscus)	10:24 PM						
MYOLUC	Little Brown Bat (Myotis lucifugus)	10:23 PM						
MYOLUC	Little Brown Bat (Myotis lucifugus)	10:20 PM						
MYOLUC	Little Brown Bat (Myotis lucifugus)	10:17 PM						
Survey Date: September	24, 2020							
Species Abbreviation	Species Name	Time Recording						
EPTFUS	Big Brown Bat (Eptesicus fuscus)	9:43 PM						
EPTFUS	Big Brown Bat (Eptesicus fuscus)	9:42 PM						
EPTFUS	Big Brown Bat (Eptesicus fuscus)	9:41 PM						
LASCIN	Hoary Bat (Lasiurus cinereus)	9:40 PM						
EPTFUS	Big Brown Bat (Eptesicus fuscus)	9:39 PM						
EPTFUS	Big Brown Bat (Eptesicus fuscus)	9:38 PM						
LASNOC	Silver-Haired Bat (Lasionycteris noctivagans)	9:30 PM						
LASCIN	Hoary Bat (Lasiurus cinereus)	9:27 PM						
LASNOC	Silver-Haired Bat (Lasionycteris noctivagans)	9:26 PM						
LASCIN	Hoary Bat (Lasiurus cinereus)	9:25 PM						
LASCIN	Hoary Bat (Lasiurus cinereus)	9:24 PM						
LASCIN	Hoary Bat (Lasiurus cinereus)	9:22 PM						
LASCIN	Hoary Bat (Lasiurus cinereus)	9:20 PM						
EPTFUS	Big Brown Bat (Eptesicus fuscus)	9:17 PM						
LASCIN	Hoary Bat (Lasiurus cinereus)	9:16 PM						
LASCIN	Hoary Bat (Lasiurus cinereus)	9:10 PM						
LASNOC	Silver-Haired Bat (Lasionycteris noctivagans)	9:09 PM						

## Maple Grove Autonomous Acoustic Recording Unit Observations (Acoustic Song Meter SM3)

The following tables contain species observations identified acoustically through the passive capture of audial recordings at the Maple Grove site. Data collected has been processed and verified by Meewasin staff. Data collected within these tables was captured by a stationary acoustic recording device, model Acoustic Song Meter SM3. The device was placed at various positions and recording intervals during the baseline inventory data collection process between May-June of 2021.

Table B-III 2. Species Identified through Passive Acoustic Data Capture (Song Meter SM3BAT Unit) at Maple Grove. Southwest Hayfield Position. Meewasin. Dates: 06/15/2021-07/27/2021

	outhwest Hayfield Position. Meewasin. Dates: 06/15/2021-07/27/20	021.					
Unit	Wildlife Acoustics Song Meter SM3BAT						
Unit ID Code	Maple Grove_BAT3Accoustic Recorder_2021						
Site Location	Maple Grove Ballfield (Southwest Hayfield Area – remnant batting cage)						
Device Placement Period	06/15/2021 – 07/14/2021						
Recording Date	Species ID	Total Species ID Count					
6/15/2021	Clay-coloured Sparrow; Spotted Towhee; Mourning Dove; Yellow Warbler; Tree Swallow; Black-billed Magpie; Canada Goose; Cowbird; Purple Martin; Vesper Sparrow; American Crow	11					
6/16/2021	Clay-coloured Sparrow; American Robin; Spotted Towhee; Mourning Dove; Vesper Sparrow; Tree Swallow; American Crow; Spotted Towhee; Red-eyed Vireo; Cedar Waxwing; Yellow Warbler	11					
6/17/2021	Clay-coloured Sparrow; American Robin; Spotted Towhee; Red-eyed Vireo; Vesper Sparrow; Yellow Warbler; Mourning Dove; American Crow; Black-capped Chickadee	9					
6/18/2021	American Robin; Clay-coloured Sparrow; Spotted Towhee; Vesper Sparrow; Tree Swallow; Duck sp; American Crow; Red-eyed Vireo; Yellow Warbler; Mourning Dove	10					
6/19/2021	Clay-coloured Sparrow; Common Nighthawk; Gray Catbird; Spotted Towhee	4					
6/20/2021	American Robin; Tree Swallow; Spotted Towhee; Yellow Warbler; Clay-coloured Sparrow; American Crow; Vesper Sparrow; House Wren	8					
6/21/2021	American Robin; Tree Swallow; Spotted Towhee; Clay-coloured Sparrow; American Crow; Vesper Sparrow; Red-eyed Vireo; Duck sp - Mallard?	8					
6/22/2021	Vesper Sparrow; American Robin; Tree Swallow; Clay-coloured Sparrow; Spotted Towhee; American Crow; Yelow Warbler	7					
6/23/2021	Spotted Towhee; Clay-coloured Sparrow; American Robin; Yellow Warbler; American Crow; Tree Swallow; Vesper Sparrow	7					
6/24/2021	Clay-coloured Sparrow; American Robin; Tree Swallow; Spotted Towhee; Yellow Warbler; American Crow; Vesper Sparrow; House Wren; American Redstart	9					
6/25/2021	American Robin; Spotted Towhee; Vesper Sparrow; Tree Swallow; Clay-coloured Sparrow; House Wren; American Redstart; American Crow; Yellow Warbler	9					
6/26/2021	Clay-coloured Sparrow; American Robin; Spotted Towhee; American Crow; Vesper Sparrow; Red-eyed Vireo; Yellow Warbler; Tree Swallow	8					
6/27/2021	American Robin; Clay-coloured Sparrow; Spotted Towhee; Veery; Purple Martin; Yellow Warbler; Vesper Sparrow; Tree Swallow; American Crow; Red-eyed Vireo	10					



Table B-III 3. Species Identified through Passive Acoustic Data Capture (Song Meter SM3BAT Unit) at Maple Grove, Permanent Plot Post Positions PP01, PP02, PP04. Meewasin. Dates: 05/19/2021-06/14/2021.

06/14/2021.					
Unit	Wildlife Acoustics Song Meter SM3BAT				
Unit ID Code	Maple Grove_BAT3Accoustic Recorder_2021				
Site Location	Maple Grove Permanent Plot Locations: PP01, PP02, PP04 (Rotational Basis)				
ARU Placement Period	05/19/2021 – 06/14/2021				
Recording Date	Species ID	Total Species ID Count			
5/19/2021	American Robin; Veery; Canada Goose; Duck sp Mallard ?; Clay-coloured Sparrow; Vesper Sparrow; Mourning Dove; Gray Catbird; Yellow Warbler; Black-capped Chickadee; Woodpecker sp	11			
5/20/2021	American Robin; Spotted Towhee; Magpie; Clay-coloured Sparrow; Yellow Narbler; Canada Goose; American Crow				
5/21/2021	American Robin; Clay-coloured Sparrow; Vesper Sparrow; American Crow; Black-capped Chickadee; Yellow Warbler; Canada Goose; Gray Catbird; Magpie; Spotted Towhee; Duck sp mallard?	11			
5/22/2021	American Robin; Clay-coloured Sparrow; Mourning Dove; Spotted Towhee; Veery; Yellow Warbler; Black-capped Chickadee; Gray Catbird; Canada Goose; Magpie; American Crow	11			
5/23/2021	American Robin; Duck sp; Spotted Towhee; Clay-coloured Sparrow; Mourning Dove; Canada Goose; Gray Catbird; American Crow; Yellow Warbler; Black-capped Chickadee; American Goldfinch; Magpie	12			
5/24/2021	NA NA	0			
5/25/2021	NA	0			
5/26/2021	Spotted Towhee; Clay-coloured Sparrow; Canada Goose; American Crow; American Robin; Common Nighthawk; Mourning Dove; Duck sp mallard?; White-throated Sparrow; House Wren; Yellow Warbler; Magpie; American Goldfinch; Western Meadowlark; Tree Swallow; Cowbird  **coyotes also heard (not included in species count)	16			
5/27/2021	Clay-coloured Sparrow; Spotted Towhee; American Robin; Mourning Dove; House Wren; Yellow Warbler; Canada Goose; American Crow; White-throated Sparrow; Cowbird; Black-billed Magpie; Black-capped Chickadee; Duck sp Mallard?; Baltimore Oriole; Veery; American Goldfinch; House Sparrow; Redwinged Blackbird  **coyotes also heard (not included in species count)	18			
5/28/2021	American Robin; Gray Catbird; Spotted Towhee; House Wren; Black-billed Magpie; Clay-coloured Sparrow; Cowbird; Yellow Warbler	8			
5/29/2021	American Robin; Gray Catbird; Spotted Towhee; House Wren; Black-billed Magpie; Clay-coloured Sparrow; Cowbird; Yellow Warbler; Mourning Dove; American Goldfinch; Canada Goose; Least Flycatcher; Black and White Warbler	13			
5/30/2021	American Robin; Gray Catbird; Clay-coloured Sparrow; Yellow Warbler; House Wren; American Crow; Black-billed Magpie; Canada Goose; Mourning Dove; Black-capped Chickadee; Cowbird; Spotted Towhee; American Goldfinch; Black and White Warbler	14			
5/31/2021	Clay-coloured Sparrow; American Robin; Tree Swallow; Mourning Dove; Gray Catbird; Spotted Towhee; Canada Goose; Yellow Warbler; House Wren; Cowbird; Black and White Warbler; American Goldfinch; Veery; Black-capped Chickadee; Red-eyed Vireo; Black-billed Magpie  ** coyotes also heard (not included in species count)	16			
6/1/2021	Clay-coloured Sparrow; Gray Catbird; Yellow Warbler; American Robin; Mourning Dove; Black and White Warbler; Spotted Towhee; Vesper Sparrow; House Sparrow; Red-eyed Vireo; Black-billed Magpie; American Goldfinch; Canada Goose; Cowbird; Warbling Vireo; Black-capped Chickadee; House Wren	17			
6/2/2021	Canada Goose; House Sparrow; Gray Catbird; American Robin; Spotted Towhee; Yellow Warbler; Mourning Dove; House Wren; Brown Thrasher; American Crow; Veery  **Boreal Chorus Frog also heard (not included in species count)	11			



6/3/2021	Gray Catbird; House Sparrow; Yellow Warbler; Mourning Dove; Spotted Towhee; Canada Goose; American Robin; House Wren; American Crow; American Goldfinch; Alder Flycatcher; Yellow-rumped Warbler; Black-capped Chickadee  **Coyotes also heard (not included in species count)	13
6/4/2021	Gray Catbird; House Sparrow; American Robin; Spotted Towhee; Yellow Warbler; Mourning Dove; American Crow; Vesper Sparrow; American Goldfinch; Red-eyed Vireo	10
6/5/2021	Canada Goose; Gray Catbird; Yellow Warbler; American Robin; House Sparrow; Spotted Towhee; Mourning Dove; American Crow; Brown Thrasher; Black-billed Magpie; American Goldfinch; Red-eyed Vireo  **Coyotes also heard (not included in species count)	12
6/6/2021	Gray Catbird; House Sparrow; Yellow Warbler; Spotted Towhee; Mourning Dove; American Crow; Canada Goose; American Goldfinch; Veery; Black-capped Chickadee; Brown Thrasher	11
6/7/2021	American Robin; Gray Catbird; House Sparrow; Spotted Towhee; Yellow Warbler; Mourning Dove; Clay-coloured Sparrow; American Crow; American Goldfinch; Black-billed Magpie  **Coyotes also heard (not included in species count)	10
6/8/2021	Gray Catbird; American Robin; American Crow; Mourning Dove; Yellow Warbler; Spotted Towhee; Canada Goose; Purple Martin; House Sparrow; American Goldfinch; Cowbird; Woodpecker sp; Veery  **Coyotes also heard (not included in species count)	13
6/9/2021	House Sparrow; Yellow Warbler; Spotted Towhee; Mourning Dove; Purple Martin; American Crow; American Goldfinch; Blue Jay; American Robin; Clay-coloured Sparrow	10
6/10/2021	House Sparrow; Yellow Warbler; American Crow; Spotted Towhee; Mourning Dove	5
6/11/2021	Spotted Towhee; House Sparrow; Yellow Warbler; American Robin; Mourning Dove; American Crow; Clay-coloured Sparrow; Cowbird; Waxwing	9
6/12/2021	Gray Catbird; American Robin; Spotted Towhee; Mourning Dove; Yellow Warbler; American Goldfinch; American Crow	7
6/13/2021	House Sparrow; Spotted Towhee; American Robin; Yellow Warbler; American Crow; Purple Martin; Clay-coloured Sparrow; American Goldfinch; Woodpecker sp; American Goldfinch	10
6/14/2021	House Sparrow; Spotted Towhee; Yellow Warbler; American Robin; Mourning Dove; Canada Goose	6



## Maple Grove Maple Grove Wildlife Camera Observation Records (Browning Dark OPS HD 26LC Units)

The following series of tables contain identified wildlife species observations captured at the Maple Grove site by wildlife camera devices between 2020 and 2021 during the baseline inventory data collection period. The wildlife camera model in use was the Browning Dark OPS HD 26LC. This series of tables summarizes the Meewasin inventory of data passively collected by wildlife camera units set at various positions and time periods on the Maple Grove site. Identified species observations have been confirmed by Meewasin staff. Some records have been highlighted to illustrate discrepancies and potential errors in the data set.

Table B-III 4. Maple Grove Wildlife Camera Records. Meewasin. Recorded Jun-Sept 2020. Browning Dark OPS HD 26LC Units.

Camera ID	Date	Time	Temp.	Species			
			(°C)	Туре	Sex	No.	Comments
	06/29/2020			WT Deer	Female	1	Says "wrong dates"
	06/29/2020		17	WT Deer	Male	1	Young buck
	06/29/2020		16	WT Deer	Female	1	
	06/29/2020		22	WT Deer	Female	1	
	Aug 20,2020	2:40pm	31	WT Deer	Female	1	
	Aug 26, 2020	9:35pm	14	WT Deer	Female	1	
	Aug 27, 2020	5:44am	7	WT Deer	Female	2	Female with fawn
	Sept.1, 2020	5:53am	13	WT Deer	Female	1	
	Sept.1, 2020	4:46pm	23	WT Deer	Female	1	
	Sept.2, 2020	8:50pm	10	WT Deer	Female	1	
	Sept.4, 2020	3:46am	5	WT Deer	Female	2	
	Sept 4, 2020	8:04am	6	WT Deer	Female	1	
	Sept 6, 2020	1:37am	11	WT Deer	Female	1	
	June 30, 2020	5:27am	14	WT Deer	Male	1	
	July 2, 2020	4:46am	13	WT Deer	Male	1	
	July 4, 2020	11:38am	27	Deer	Fawn	1	
	July 6, 2020	12:48am	12	WT Deer	Female	1	
MG 2	June 13, 2020	8:33pm	27	WT Deer	Female	1	
	June 13, 2020	11:17pm	25	WT Deer	Unknown	1	
	June 13, 2020	8:33pm	27	WT Deer	Female	1	
	June 14, 2020	5:18am	21	WT Deer	Female	1	
	June 14, 2020	5:34pm	17	WT Deer	Female	1	
	June 14, 2020	8:32pm	15	WT Deer	Male	1	Young buck
	June 14, 2020	9:11pm	14	WT Deer	Female	1	i can ig a aren
	June 14, 2020	9:18pm	14	WT Deer	Male	1	Young buck
	June 15, 2020	11:03am	15	WT Deer	Male	1	. cang sach
	June 15, 2020	5:54pm	25	WT Deer	Female	1	
	June 17, 2020	11:21pm	8	WT Deer	Female	1	
	June 18, 2020	5:09am	6	WT Deer	Female	1	
	June 18, 2020	9:24am	9	WT Deer	Female	1	
	June 18, 2020	12:59pm	21	WT Deer	Female	1	
	June 18, 2020	6:29pm	21	WT Deer	Male	1	
	June 18, 2020	8:09pm	14	WT Deer	Female	1	
	June 19, 2020	10:58pm	8	WT Deer	Female	1	
	June 20, 2020	5:08am	7	Mule Deer	Male	2	
	June 20, 2020	6:13am	7	WT Deer	Male	1	
	June 20, 2020	6:39pm	20	WT Deer	Female	1	
	June 20, 2020	7:01pm	18	WT Deer	Male	1 1	Young buck
	June 20, 2020	8:21pm	14	WT Deer	Male/Female	3	I July Duck
	June 20, 2020	8:57pm	12	WT Deer	Male	1	Young buck
	June 20, 2020	9:24pm	12	WT Deer	Female	2	I during buck
	June 21, 2020	4:57am	3	WT Deer	Female	1	
	June 21, 2020	3:31pm	25	WT Deer	Female	2	
	June 21, 2020 June 21, 2020	5:10pm	26	WT Deer	Female	1	+
	June 21, 2020	5:49pm	3	WT Deer	Female	1	+
	June 22, 2020	9:57pm	16	WT Deer	Female	2	



Table B-III 5. Maple Grove Wildlife Camera Records. Meewasin. Recorded Jun-July 2020. Browning Dark OPS HD 26LC Units.

Camera ID	Date	Time	Temperature		Species			
			(°C)	Туре	Gender	Numb er	Comments	
	June 23, 2020	6:54am	11	WT Deer	Male	2	Young buck	
	June 23, 2020	8:55pm	24	WT Deer	Female	1		
	June 24, 2020	11:36am	27	WT Deer	Female	1		
	June 24, 2020	4:18pm	27	WT Deer	Female	1		
	June 25, 2020	6:43am	14	Mule Deer	Female	1		
	June 26, 2020	10:08am	25	WT Deer	Male	1		
	June 27, 2020	8:18am	15	WT Deer	Male	2		
	June 27, 2020	10:46pm	13	WT Deer	Female	1		
	June 29, 2020	2:21pm	26	WT Deer	Female	1		
	June 30, 2020	5:22am	14	WT Deer	Female	1		
	June 30, 2020	12:39pm	19	WT Deer	Male	1		
	July 1, 2020	10:34am	18	WT Deer	Male	1		
	July 1, 2020	12:45pm	26	WT Deer	Male	1		
	July 4, 2020	10:11pm	19	WT Deer	Male	1		
	July 5, 2020	4:55am	13	WT Deer	Male	1	Young buck	
	July 5, 2020	8:21pm	20	WT Deer	Male	2	Young buck	
101MFCAM	July 7, 2020	6:47pm	26	Mule Deer	Female	1		
	July 7, 2020	11:34pm	21	WT Deer	Male	1	Young buck	
	July 8, 2020	1:30am	19	WT Deer	Female	2	Doe with fawn	
	July 9, 2020	9:02am	17	Coyote	unknown			
	July 11, 2020	2:19am	10	WT Deer	Female	1		
	July 11, 2020	5:31am	9	WT Deer	Male	2		
	July 11, 2020	8:06pm	25	Raven	Unknow n	1		
	July 11, 2020	8:19pm	24	WT Deer	Male	1	Young buck	
	July 12, 2020	3:04am	13	WT Deer	Female	1		
	July 12, 2020	5:32pm	28	WT Deer	Male	1	Young buck	
	July 13, 2020	5:30am	10	WT Deer	Female	2	Female with fawn	
	July 14, 2020	10:33pm	15	WT Deer	Female	1		
	July 15, 2020	2:49am	14	WT Deer	Female	2	Female with fawn	
	July 15, 2020	7:29am	13	WT Deer	Female and Male	2		
	July 15, 2020	9:54am	22	Bird	unknown	1		
102MFCAM	July 15, 2020	9:50pm	17	WT Deer	Female			
	July 18, 2020	4:39am	10	WT Deer	Female	2	Female with fawn	
	July 19, 2020	6:03am	10	Deer		1	Fawn	
	July 19, 2020	6:07am	10	WT Deer	Female	1		
	July 22, 2020	5:33am	13	WT Deer	Male	1	Young buck	
	July 22, 2020	7:20am	16	WT Deer	Female	2	Female with fawn	
	July 22, 2020	8:18pm	28	WT Deer	Female	1		
	July 23, 2020	2:10am	23	WT Deer	Female	1		
	July 27, 2020	4:30am	9	WT Deer	Female	1		
	July 28, 2020	5:39am	10	WT Deer	Male	1	Young buck	

Table B-III 6. Maple Grove Wildlife Camera Records. Meewasin. Recorded Various 2020. Browning Dark OPS HD 26LC Units.

Camera	Date	Time	Temperature		Sı	pecies			
ID			(°C)	Туре	Gender	Number	Comments		
	July 28, 2020	8:18pm	27	WT Deer	Female	1			
	July 29, 2020	5:31am	14	WT Deer	Female	1			
	July 29, 2020	5:32am	14	WT Deer	Male	1			
	July 29, 2020	6:49am	15	WT Deer	Female	2	Female with Fawn		
	July 29, 2020	7:39pm	29	WT Deer	Male	1			
	July 29, 2020	8:15pm	28	WT Deer	Male and	2			
		·			Female				
	July 30, 2020	9:56am	26	WT Deer	Female	1			
	Aug 3, 2020	5:11am	15	WT Deer	Female	1			
Test 3	Feb 18, 2020	3:57am	22	WT Deer	Female	1	Date programming issue		
	Feb 18, 2020	7:37pm	17	WT Deer	Female	1			
	Feb 18, 2020	9:39pm	14	WT Deer	Female	1			
	Feb 19, 2020	8:51pm	18	WT Deer	Male	1	Young buck		
	Feb 20, 2020	5:50am	8	WT Deer	Male	1	Young buck		
	Feb 21, 2020	2:31am	12	WT Deer	Female	1			
	Feb 21, 2020	8:31pm	10	WT Deer	Unknown	1	Blurry running image		
	Feb 22, 2020	11:41am	14	WT Deer	Male	1	Young buck		
	Feb 22, 2020	3:45pm	18	WT Deer	Male	1	Young buck		
	Feb 22, 2020	11:53pm	5	WT Deer	Female	1			
	Feb 23, 2020	7:50am	12	WT Deer	Male	1	Young buck		
	Feb 23, 2020	6:31pm	13	WT Deer	Female	1			
	Feb 24, 2020	5:12am	6	WT Deer	Male	1	Young buck		
	Feb 24, 2020	6:34am	7	WT Deer	Female	1			
	Feb 25, 2020	8:05am	21	WT Deer	Male	1			
	Feb 26, 2020	7:08am	12	WT Deer	Female	1			
	Feb 26, 2020	11:58am	26	WT Deer	Male	1			
	Feb 26, 2020	9:10pm	20	WT Deer	Male	1	Young buck		
	Feb 26, 2020	11:15pm	12	WT Deer	Female	1			
	Feb 27, 2020	1:23am	10	WT Deer	Female	1			
	Feb 27, 2020	2:28am	9	WT Deer	Female	1			
	Feb 27, 2020	8:17pm	27	WT Deer	Female	1			
	Feb 27, 2020	9:33pm	23	WT Deer	Male	1			
	Feb 28, 2020	3:42pm	27	WT Deer	Female	1			
	Feb 29, 2020	3:39am	16	WT Deer	Female	1			
	Feb 29, 2020	5:07am	15	WT Deer	Male	1	Young buck		
	Feb 29, 2020	5:37am	15	Mule Deer	Female	1	J		
	Feb 29, 2020	9:14pm	21	Mule Deer	unknown	1	Just the butt end on camera		

Table B-III 7. Maple Grove Wildlife Camera Records. Meewasin. Recorded Various 2020. Browning Dark OPS HD 26LC Units.

Camera ID	Date	Time	Temperatur		5	Species	
			e (ºC)	Туре	Gender	Number	Comments
	Mar2, 2020	1:39am	18	Deer	Female	1	Dark
	Mar2, 2020	11:37am	1	WT Deer	Male	2	Young bucks
	Mar2, 2020	10:00pm	14	WT Deer	Female	1	
	June 30, 2020	2:52pm	20	Mule Deer	unknown	1	Head down
I01MFCAM	July 6, 2020	9:00pm	21	WT Deer	Female	1	
	July 8, 2020	5:48am	16	Deer	Female	1	
	July 8, 2020	11:02pm	16	WT Deer	Female	1	
	July 9, 2020	6:25am	14	WT Deer	Male	1	Young buck
	July 9, 2020	1:32pm	24	WT Deer	Female	1	
	July 11, 2020	6:42am	13	Deer	Female	1	
	July 11, 2020	7:18am	15	WT Deer	Female	2	
	July 11, 2020	7:52am	21	WT Deer	Male	1	
	July 11, 2020	3:26pm	27	Deer	unknown	1	Fawn
	July 11, 2020	8:54pm	23	WT Deer	Female	1	
	July 12, 2020	8:54pm	21	WT Deer	Female	1	
	July 13, 2020	2:08am	12	WT Deer	Female	1	
	July 14, 2020	4:33am	10	WT Deer	Female	1	
	July 17, 2020	4:43am	16	WT Deer	Unknown	1	Head down
	July 17, 2020	8:22am	26	WT Deer	Male	1	Young buck
	July 17, 2020	1:22pm	26	WT Deer	Male	1	
	July 19, 2020	7:39am	16	WT Deer	Male	1	
	July 20, 2020	4:56am	13	unknown	unknown	1	Dark, blurry
	July 20, 2020	7:16pm	25	WT Deer	Female	1	
	July 20, 2020	9:38pm	19	WT Deer	Female	1	
02MFCAM	July 22, 2020	7:42pm	29	WT Deer	Male	1	
	July 23, 2020	3:14am	21	WT Deer	Female	1	
	July 24, 2020	10:39pm	18	WT Deer	Female	1	
	July 25, 2020	9:10am	21	WT Deer	Male	1	
	July 26, 2020	1:06am	12	WT Deer	Female	1	
	July 26, 2020	5:13am	11	WT Deer	Male	1	
	July 27, 2020	9:08pm	22	WT Deer	Female	1	
	July 28, 2020	5:19am	9	WT Deer	Male	1	
	July 28, 2020	5:54am	9	WT Deer	Female	1	
	July 28, 2020	6:36am	11	WT Deer	Female	2	
	July 29, 2020	4:19am	14	WT Deer	Female	1	
	July 30, 2020	6:46pm	28	WT Deer	Male	1	

Table B-III 8. Maple Grove Wildlife Camera Records. Meewasin. Recorded Jul-Aug 2020. Browning Dark OPS HD 26LC Units.

Camera ID	Date	Date Time Temp		perature Species			
			(°C)	Туре	Gender	Number	Comments
	July 30, 2020	11:34pm	21	WT Deer	Female	1	
	July 31, 2020	5:27am	15	WT Deer	Male	1	
	July 31, 2020	5:55am	14	WT Deer	Male	1	
	July 31, 2020	6:34am	15	WT Deer	Female	1	
	August 2, 2020	5:08am	11	WT Deer	Female	1	
	August 2, 2020	10:32pm	22	WT Deer	Male	1	
	August 4, 2020	2:10am	18	WT Deer	Male	1	
	August 4, 2020	5:38am	17	WT Deer	Male	1	
	August 4, 2020	6:11am	15	WT Deer	Female	1	
	August 4, 2020	11:30am	26	WT Deer	Male	1	
	August 4, 2020	11:45am	26	WT Deer	Male	1	Young buck
	August 4, 2020	7:34pm	25	WT Deer	Male	1	Ğ
	August 4, 2020	8:35pm	22	WT Deer	Female	1	
	August 4, 2020	9:35pm	15	WT Deer	Female	1	
	August 5, 2020	8:17pm	25	WT Deer	Male	1	
	August 5, 2020	8:26pm	24	WT Deer	Female	1	
	August 7, 2020	5:03am	19	WT Deer	Female	1	
	August 8, 2020	5:25am	13	WT Deer	Male	1	
	August 8, 2020	1:12pm	26	WT Deer	Unknown	1	Unknown, shot hindquarters
	August 8, 2020	6:07pm	26	WT Deer	Female	1	•
	August 8, 2020	6:53pm	25	WT Deer	Male	1	Young buck
	August 9, 2020	8:57am	14	WT Deer	Male	1	Young buck
	August 9, 2020	9:08am	14	WT Deer	Male	1	Young buck
	August 9, 2020	6:09pm	22	WT Deer	Male	2	· ·
	August 10, 2020	5:53am	8	WT Deer	Female	2	Doe and fawn
	August 10, 2020	5:55am	8	WT Deer	Female	1	
	August 10, 2020	5:56am	8	WT Deer	Fawn	1	
	August 10, 2020	6:39am	9	WT Deer	Female	1	
	August 10, 2020	9:14am	20	WT Deer	Female	1	
	August 10, 2020	11:49am	26	WT Deer	Female	1	
	August 10, 2020	1:33pm	25	WT Deer	unknown	1	Unknown, shot hindquarters
	August 10, 2020	8:23pm	21	WT Deer	Male	1	Young buck
	August 10, 2020	9:15pm	17	WT Deer	Female	1	J
	August 10, 2020	9:15pm	17	WT Deer	Fawn	1	
	August 10, 2020	9:30pm	15	WT Deer	Female	1	
	August 11, 2020	5:27am	11	WT Deer	Male	1	

Table B-III 9. Maple Grove Wildlife Camera Records. Meewasin. Recorded Aug-Oct 2020. Browning Dark OPS HD 26LC Units.

Camera	Date	Time	Temper			ecies	
ID			ature (°C)	Туре	Gender	Number	Comments
	August 11, 2020	5:44am	11	WT Deer	Male	1	
	August 12, 2020	8:34pm	20	WT Deer	Unknown	1	
	August 12, 2020	8:46pm	19	WT Deer	Female	1	
	August 12, 2020	11:49pm	15	WT Deer	Male	1	
	August 14, 2020	5:00am	11	WT Deer	Female	1	
	August 14, 2020	6:40am	9	WT Deer	Male	1	
	August 14, 2020	6:41am	9	WT Deer	Female	1	
	August 14, 2020	6:41am	9	WT Deer	Male	1	
	August 14, 2020	8:48pm	14	WT Deer	Female	1	
	August 15, 2020	3:59am	7	WT Deer	Female	1	
	August 15, 2020	5:17am	6	WT Deer	Female	1	
	August 15, 2020	7:28am	9	WT Deer	Female	1	
	August 15, 2020	7:43am	12	WT Deer	Male	1	
	August 15, 2020	8:04am	15	WT Deer	Female	1	
	August 15, 2020	8:30am	17	WT Deer	Female	1	
	August 16, 2020	12:22am	10	WT Deer	Female	1	
	August 17, 2020	7:24pm	26	WT Deer	Female	1	
	August 18, 2020	7:28am	13	WT Deer	Female	1	
Plot 1	October 16, 2020	12:24pm	7	Mule Deer	Female	1	
	October 16, 2020	7:24am	-13	Mule Deer	Female	2	
	October 17, 2020	4:31pm	-2	WT Deer	Female	1	
	October 19, 2020	5:26am	-8	Coyote	Unknown	1	
	October 19, 2020	6:06	-8	Coyote	Unknown	1	
	October 19, 2020	7:51am	-9	Coyote			
	October 19, 2020	7:55am	-8	Mule Deer	Female	1	
	October 20, 2020	7:29am	-7	WT Deer	Female	1	
	October 20, 2020	3:49pm	-2	Coyote	unknown	1	
	October 20, 2020	4:04pm	-2	coyote	Unknown	1	
	October 20, 2020	4:41pm	-2	Mule Deer	Female	2	
	October 20, 2020	5:49pm	-3	Mule Deer	Female	3	
	October 21, 2020	2:09pm	2	Mule Deer	Female	3	
	October 21, 2020	4:06pm	0	Mule Deer	Female	3	
	October 21, 2020	4:51pm	-1	Mule Deer	Female	1	
	October 21, 2020	5:42pm	-2	Coyote	unknon	1	
	October 22, 2020	4:05pm	-3	Mule Deer	Female	1	
	October 22, 2020	4:19pm	-3	Mule Deer	Female	3	

Table B-III 10. Maple Grove Wildlife Camera Records. Meewasin. Recorded Oct-Nov 2020. Browning Dark OPS HD 26LC Units.

Camera	Date	Time	Temperatur		Spe	cies		
ID			e (°C)	Туре	Gender	Number	Comme	ents
	October 22, 2020	4:25pm	-3	Mule Deer	Female	3		
	October 23, 2020	4:59am	-16	coyote	unknown	1	Blurry plus but sha a coyote	pe of
	October 23, 2020	8:28am	-19	WT Deer	Female			
	October 24, 2020	6:23am	-8	Deer	female	1		
	October 24, 2020	8:16am	-8	Mule Deer	Female	1		
	October 24, 2020	8:17am	-8	Mule Deer	Two young			
	October 24, 2020	9:41am	-7	Mule Deer	female	3		
	October 24, 2020	4:03pm	-4	Mule deer	Female	1		
	October 24, 2020	6:50pm	-7	Deer	Female	1		
	October 24, 2020	8:41pm	-7	Coyote	Unknown	1	Dark burry	and
	October 25, 2020	7:40am	-7	coyote	unknown	1	Dark blurry	and
	October 25, 2020	10:26p m	-12	coyote	Unknown	1		
	October 26, 2020	7:54am	-12	Coyote	Unknown	1		
	October 26, 2020	12:30p m	0	Magpie	Unknown	1		
	October 26, 2020	5:07pm	1	Bird	Unknown	1		
	October 27, 2020	1:37am	-5	Deer	Female	1		
	October 27, 2020	7:47 am	2	Deer	female	1		
	October 28, 2020	7:46am	-1	Deer	female	3		
	October 28, 2020	8:35am	1	Deer	Male	1		
	October 30, 2020	7:14pm	4	Deer	Female	1		
	November 1, 2020	6:54am	-11	Coyote	Unknown	1		
	November 1, 2020	5:21pm	11	WT Deer	Female	2		
	November 2, 2020	4:36am	-5	Coyote	Unknown	1		
	November 2, 2020	9:58pm	0	Coyote	Unknown	1		
	November 4,2020	1:57am	-2	Coyote	Unknown	1		
	November 6, 2020	5:54pm	2	WT Deer	Male	1		
	November 7, 2020	5:11pm	-2	Deer	Female	1		
	November 11, 2020	1:01pm	-9	Mule Deer	Female	3	With young	two
	November 11, 2020	7:02pm	-15	Mule Deer	Female	2		
	November 12, 2020	9:06am	-24	WT Deer	Female	1		
	November 12, 2020	9:07am	-24	WT Deer	Male	1		
	November 12, 2020	1:22pm	-10	Deer	Female			
	November 12, 2020	6:07pm	-15	Deer	Female	1		
	November 12, 2020	6:15pm	-15	WT Deer	Male	1		
	November 12, 2020	6:40	-15	WT Deer	Male and Female	2		
	November 12, 2020	7:04	-14	WT Deer	Female	1		

Table B-III 11. Maple Grove Wildlife Camera Records. Meewasin. Recorded Nov-Dec 2020. Browning Dark OPS HD 26LC Units.

Camera	Date	Time	Temperature		Sp	ecies		
D			(°C)	Туре	Gender	Number	Comment	ts
	November 12, 2020	7:07pm	-15	WT Deer	Male	1		
	November 13, 2020	2:59am	-20	WT Deer	Female	1		
	November 13, 2020	8:15am	-17	WT Deer	Male	1		
	November 13, 2020	1:36pm	1	WT Deer	Female	1		
	November 13, 2020	3:37pm	1	WT Deer	Female	1		
	November 13, 2020	4:27pm	1	WT Deer	Female	1		
	November 13, 2020	4:30pm	-2	Mule Deer	Female	3		
	November 14, 2020	12:39	-5	Deer	Female	1		
	November 14, 2020	11:58am	-3	WT Deer	Female	1		
	November 14, 2020	5:30pm	-6	WT Deer	Female			
	November 15, 2020	4:47am	-8	WT Deer	Male	1		
	November 15, 2020	5:04am	-8	WT Deer	Male and	2		
					Female			
	November 15, 2020	6:32am	-8	Mule Deer	Male	1		
	November 15, 2020	10:45am	-7	WT Deer	Female	2		
	November 15, 2020	10:51am	-7	WT Deer	Male	1		
	November 15, 2020	2:36pm	-4	Mule Deer	Male	1		
	November 15, 2020	7:57pm	-9	Coyote	unknown	1		
	November 16, 2020	6:45am	-8	Coyote	Unknown	1		
	November 16, 2020	12:54pm	-5	Mule Deer	Female	1		
	November 16, 2020	10:16pm	-8	Mule Deer	Male	1		
	November 17, 2020	8:41am	-8	Coyote	Unknown	1		
	November 18, 2020	9:27am	-1	Deer	Female	1		
	November 18, 2020	10:01pm	-5	WT Deer	Male	1		
	November 19, 2020	6:58am	-7	WT Deer	Female	1		
	November 20, 2020	9:11pm	-19	WT Deer	Male	1		
	November 24, 2020	10:05am	-6	Magpie	Unknown	1		
	November 25, 2020	7:46pm	-2	Coyote	Unknown	1		
	November 28, 2020	1:47pm	-1	Magpie	unknown			
	December 1, 2020	4:30pm	0	Deer	Female	1		
	December 1, 2020	4:33pm	0	Mule Deer	Male	1		
	December 2, 2020	9:31am	-15	Mule Deer	Male	1		
	December 2, 2020	4:29pm	-4	Deer	Female	1		
	December 4, 2020	4:22am	-12	Deer	Male	1		
	December 6, 2020	11:55pm	-14	Fox or coyote?	Unknown	1	Blurry dark	an
	December 8, 2020	2:43pm	1	Mule Deer	Female	1		
	December 12, 2020	11:29pm		Fox or coyote	Unknown	1		

Table B-III 12. Maple Grove Wildlife Camera Records. Meewasin. Recorded Dec-Feb 2021. Browning Dark OPS HD 26LC Units.

Camera	Date	Time	Temperatu		Sp	ecies	
D			re (°C)	Туре	Gender	Number	Comments
	December 14, 2020	5:37pm	-18	coyote	Unknown	1	
	December 15, 2020	7:11am	-22	Coyote?	Unknown	1	dark
	December 17, 2020	10:58am	-10	Coyote	Unknown	1	
	December 19, 2020	10:31pm	-14	Coyote?	Unknown	1	dark
	December 21, 2020	6:01pm	-9	Coyote	Unknown	1	
	December 22, 2020	10:19pm	-15	Coyote	Unknown	1	
	December 23, 2020	10:49pm	-12	Coyote	Unknown	1	
	December 24, 2020	12:44pm	-3	Coyote	Unknown	1	
	December 24, 2020	11:47pm	-13	Coyote	Unknown	1	
	December 28, 2020	11:08pm	-10	Magpie	Unknown	1	
	December 29, 2020	2:18am	-17	Coyote	Unknown	1	
	December 29, 2020	7:37pm	-10	Coyote	unknown	1	
	December 31, 2020	2:06pm	-11	Magpie	Unknown	1	
	January 1, 2020	2:52am	-18	Coyote	Unknown	1	
	January 1, 2020	5:05am	-19	Coyote	Unknown	1	
	January 1, 2020	8:41am	-19	coyote	unknown	1	
	January 1, 2020	9:15pm	-14	coyote	Unknown	1	
	January 2, 2020	5:39pm	-4	Coyote	Unknown	1	
	January 5, 2020	12:46am	-14	Coyote	unknown	1	
	January 6, 2020	7:46pm	-8	Coyote	Unknown	1	
	January 7, 2020	5:23pm	-10	fox	Unknown	1	
	January 8, 2021	12:14	-10	Magpie	Unknown	1	
	January 9, 2021	7:11am	-20	Coyote?	Unknown	1	dark
	January 11, 2021	7:21am	-19	Coyote	Unknown	1	
	January 12, 2021	12:08am	-14	Coyote	Unknown	1	
	January 12, 2021	8:10am	-17	Coyote?	Unknown	1	dark
	January 15, 2021	7:40am	-19	Fox?	Unknown	1	dark
	January 16, 2021	6:53pm	-7	Coyote?	Unknown	1	dark
	January 21, 2021	7:37pm	-10	Coyote?	Unknown	1	dark
	January 21, 2021	9:23pm	-10	Coyote?	Unknown	1	dark
	January 26, 2021	6:08am	-30	Coyote?	Unknown	1	dark
	January 31, 2021	4:02am	-13	Coyote?	Unknown	1	dark
	February 3, 2021	10:22pm	-20	Coyote?	Unknown	1	Dark
	February 4, 2021	6:56am	-19	Coyote?	Unknown	1	dark
	February 4, 2021	11:24am	-14	Fox	Unknown	1	
	February 4, 2021	12:21pm	-14	Fox	Unknown	1	

Table B-III 13. Maple Grove Wildlife Camera Records. Meewasin. Recorded Feb-Aug 2021. Browning Dark OPS HD 26LC Units.

Camera	Date	Time		mper			Species		
ID			atu (ºC	ıre	Туре		Gender	Numb er	Comments
	February 11, 2021		5		Snowshoe I	Hare	unknown	1	
	February 13, 202	21 8:12am	5		Snowshoe I	Hare	unknown	1	
	February 13, 2021	6:05pm	-31		Fox		Unknown	1	
	February 14, 2021		-21		Snowshoe I	Hare	unknown	1	
	February 14, 2021		-28		coyote		unknown	1	
	February 17, 2021		-21		Coyote?		Unknown	1	dark
	February 19, 2021		-31		Coyote?		Unknown	1	dark
	February 20, 2021		-13	1	Coyote?		Unknown	1	dark
	February 21, 2021		1		coyote		Unknown	1	
	February 22, 2021				Coyote?	1	Unknown	1	dark
	February 24, 2021		-9		Snowshoe I	наге	Unknown	1	
	February 25, 2021		3 n -5		Coyote Snowshoe I	loro	unknown Unknown	1	
	February 25, 2021					наге	Unknown	1	No ontlore
	February 26, 2021 March 1, 2021	11:57pn 4:31am	n -19		Moose Fox?		unknown	1	No antlers dark
	March 1, 2021	5:17am	-14		Fox?			1	
	March 5, 2021	2:36am	-14		Snowshoe I		unknown Unknown	1	dark
	March 5, 2021	4:06am	-10	1	Coyote	iait	Unknown	1	
	March 5, 2021	7:25am	-13		Covote		Unknown	3	
	March 7, 2021	8:59pm	-4	<u>'</u>	Fox		Unknown	1	
	March 12, 2021	10:49pn			Snowshoe I	Hare	unknown	'	
	March 13, 2021	5:52am	-10	)	Snowshoe I		Unknown	1	
	March 25, 2021	6:00am	-1		Fox?	laro	Unknown	1	dark
	March 25, 2021	6:02am	-1		WT Deer		Female	2	dank
	March 26, 2021	2:32am	-12	)	Fox?		Unknown	1	dark
	March 27, 2021	4:51am	-14		Fox?		unknown	1	Blurry, dark
	March 27, 2021	8:09pm	-2		coyote		Unknown	1	
	March 28, 2021	5:11am	1		WT Deer		Female	1	
	March 28, 2021	1:44pm	22		Coyote		Unknown	1	
	March 28, 2021	6:35pm	14		Coyote		Unknown	1	
	March 28, 2021	10:05pn	n 8		WT Deer		Female	1	
	March 29, 2021	6:40am	2		WT Deer		Female	2	
	March 30, 2021	8:46pm	-15	;	Coyote		Unknown	1	
	March 31, 2021	9:02am	-2		coyote		Unknown	1	
	April 2, 2021	2:32am	2		Coyote		Unknown	1	
	April 2, 2021	6:31am	-2		Coyote		unknown	1	
Camera	Date	Time	Tempe				Species		
ID			ature	T;	/pe	Gender	Number	Comme	ents
	April 2, 2024	6:18am	(°C)	14	T Deer	Male ar	nd 2		
	April 3, 2021	6. roam	3	l vv	i Deei	female	nd 2		
	April 3, 2021	6:49am	1	F.	OX	Unknown	1		
	A 'I 4 0004	7:18am				Unknown	1		
	April 4, 2021 April 6, 2021	1:15pm	20		yote T Deer	Female	2		
	May 19, 2021	10:42	7		T Deer	Unknown	1	Head no	ot in photo
	May 20, 2021	9:08	2		)X	Unknown	1	. iouu iii	o prioto
	May 21, 2021	5:59pm	8		T Deer	Female	1		
	May 22, 2021	9:51pm	10		T Deer	Female	<del>                                     </del>		
	May 23, 2021	4:26am	7		ule Deer	Female	1		
	May 23, 2021	7:09am	9		T Deer	Female	1		
	May 25, 2021	5:03pm	9		ule Deer	Female	4		
	May 26, 2021	8:07am	16		T Deer	Female	1		
	May 27, 2021	7:30am	17		T Deer	Female	1		
	May 27, 2021	6:15pm	24		ule Deer	Female	1		
	May 28, 2021	8:07pm	17		T Deer	Female	1		
		9:05pm	15		T Deer	Female	1		
	May 28, 2021	9.05pm					1	İ	
	May 28, 2021 June 1, 2021	5:01pm	29	W	T Deer	Female			
			29 15		T Deer byote	Unknown	1		
	June 1, 2021	5:01pm		С					
	June 1, 2021 June 1, 2021	5:01pm 11:24pm	15	C W	oyote	Unknown	1		



June 11, 2021   11:56pm   11   Deer   female   1   June 13, 2021   9:03am   25   WT Deer   female   1   June 14, 2021   7:33pm   29   WT Deer   Female   1   June 14, 2021   8:25pm   29   WT Deer   Female   1   June 14, 2021   8:25pm   29   WT Deer   Female   1   June 14, 2021   8:25pm   29   WT Deer   Female   1   June 17, 2021   2:22am   7   WT Deer   Female   1   June 17, 2021   12:05pm   25   Coyote   Unknown   1   June 17, 2021   12:05pm   25   Coyote   Unknown   1   June 17, 2021   1:53am   10   WT Deer   Female   1   June 20, 2021   1:53am   10   WT Deer   Female   1   June 20, 2021   1:53am   10   WT Deer   Female   1   June 22, 2021   8:55am   25   WT Deer   Female   1   June 24, 2021   10:32pm   14   Fox/coyote?   Unknown   1   Dark/l June 25, 2021   5:13am   6   WT Deer   Male   1   June 26, 2021   8:19pm   25   WT Deer   Male   1   June 26, 2021   8:19pm   25   WT Deer   Male   1   June 29, 2021   8:17pm   29   WT Deer   Male   1   June 30, 2021   5:08am   14   Mule Deer   Female   1   June 30, 2021   5:08am   14   Mule Deer   Female   1   June 30, 2021   10:22am   34   WT Deer   Male   1   June 30, 2021   10:22am   27   WT Deer   Male   1   July 3, 2021   10:22am   27   WT Deer   Male   1   July 3, 2021   10:22am   27   WT Deer   Female   1   July 3, 2021   12:10am   27   WT Deer   Female   1   July 4, 2021   12:46am   27   WT Deer   Female   1   July 5, 2021   12:46am   17   WT Deer   Female   1   July 5, 2021   12:46am   17   WT Deer   Female   1   July 5, 2021   10:246am   20   WT Deer   Female   1   July 6, 2021   10:40am   16   WT Deer   Female   1   July 6, 2021   10:38pm   28   WT Deer   Female   1   July 6, 2021   10:38pm   28   WT Deer   Female   1   July 6, 2021   10:38pm   28   WT Deer   Female   1   July 6, 2021   10:38pm   28   WT Deer   Female   1   July 7, 2021   10:38pm   28   WT Deer   Female   1   July 7, 2021   10:38pm   28   WT Deer   Female   1   July 7, 2021   10:38pm   28   WT Deer   Female   1   July 7, 2021   10:38pm   28   WT Deer   Female   1   July 7, 2021   10:38pm   2	not in shot
June 6, 2021   9:34pm   13	
June 7, 2021   8:57am   17    WT Deer	
June 8, 2021   3:00am   3   WT Deer   Female   1	
June 8, 2021   11:23am   25   Deer   Famale   1	
June 8, 2021   5:38pm   25   WT Deer   Female   1     June 8, 2021   8:01pm   20   WT Deer   Female   1     June 10, 2021   8:45am   17   WT Deer   Female   1     June 10, 2021   8:45am   17   WT Deer   Female   1     June 11, 2021   11:56pm   11   Deer   Female   1     June 13, 2021   9:03am   25   WT Deer   female   1     June 14, 2021   7:33pm   29   WT Deer   Female   1     June 14, 2021   8:25pm   29   WT Deer   Female   1     June 14, 2021   8:25pm   29   WT Deer   Female   1     June 17, 2021   8:25pm   29   WT Deer   Female   1     June 17, 2021   12:05pm   25   Coyote   Unknown   1     June 17, 2021   12:05pm   25   Coyote   Unknown   1     June 17, 2021   3:25pm   25   WT Deer   Female   1     June 20, 2021   1:53am   10   WT Deer   Female   1     June 20, 2021   1:53am   10   WT Deer   Female   1     June 23, 2021   9:33pm   18   WT Deer   Female   1     June 24, 2021   10:32pm   14   Fox/coyote?   Unknown   1     June 26, 2021   8:19pm   25   WT Deer   Female   1     June 27, 2021   8:19pm   25   WT Deer   Female   1     June 28, 2021   8:17pm   29   WT Deer   Female   1     June 29, 2021   8:17pm   29   WT Deer   Female   1     June 29, 2021   10:32pm   14   Fox/coyote?   Unknown   1     June 29, 2021   10:22am   34   WT Deer   Female   1     June 30, 2021   5:08am   14   Mule Deer   Female   1     June 30, 2021   5:08am   14   Mule Deer   Female   1     June 30, 2021   10:02am   34   WT Deer   Male   1     June 30, 2021   10:02am   34   WT Deer   Male   1     June 30, 2021   10:02am   34   WT Deer   Female   1     July 3, 2021   10:02pm   23   WT Deer   Female   1     July 4, 2021   12:46am   17   WT Deer   Female   1     July 5, 2021   10:10pm   26   WT Deer   Female   1     July 5, 2021   10:10pm   26   WT Deer   Female   1     July 6, 2021   10:38am   10   WT Deer   Female   1     July 6, 2021   10:38am   10   WT Deer   Female   1     July 6, 2021   10:38am   10   WT Deer   Female   1     July 6, 2021   10:38am   10   WT Deer   Female   1     July 6, 2021   10:38am   20   WT Deer   Female   1	
June 8, 2021   9:20pm   17   WT Deer   Female   1   June 10, 2021   8:01pm   20   WT Deer   Male   1   June 10, 2021   5:01pm   22   WT Deer   Female   1   Head   June 11, 2021   11:56pm   11   Deer   female   1   June 13, 2021   9:03am   25   WT Deer   female   1   June 13, 2021   9:03am   25   WT Deer   female   1   June 14, 2021   8:25pm   29   WT Deer   Female   1   June 14, 2021   8:25pm   29   WT Deer   Female   1   June 17, 2021   8:25pm   29   WT Deer   Female   1   June 17, 2021   12:05pm   25   Coyote   Unknown   1   June 17, 2021   6:06pm   23   WT Deer   Female   1   June 17, 2021   3:25pm   25   WT Deer   Female   1   June 17, 2021   3:25pm   25   WT Deer   Female   1   June 22, 2021   8:53am   10   WT Deer   Female   1   June 23, 2021   9:33pm   18   WT Deer   Female   1   June 24, 2021   10:32pm   14   FoxCoyote? Unknown   1   Dark/I June 26, 2021   5:13am   6   WT Deer   Male   1   June 26, 2021   10:39pm   25   WT Deer   Male   1   June 26, 2021   10:39pm   25   WT Deer   Male   1   June 26, 2021   10:39pm   21   WT Deer   Male   1   June 28, 2021   5:08am   13   WT Deer   Female   1   June 29, 2021   5:08am   13   WT Deer   Female   1   June 30, 2021   5:08am   13   WT Deer   Female   1   June 30, 2021   5:08am   13   WT Deer   Female   1   June 30, 2021   5:08am   14   Mule Deer   Female   1   June 30, 2021   5:08am   14   Mule Deer   Female   1   Juny 3, 2021   10:22am   34   WT Deer   Male   1   Juny 3, 2021   10:22am   34   WT Deer   Female   1   July 4, 2021   4:06am   17   WT Deer   Female   1   July 5, 2021   4:06am   17   WT Deer   Female   1   July 5, 2021   4:06am   17   WT Deer   Female   1   July 5, 2021   4:06am   17   WT Deer   Female   1   July 5, 2021   4:06am   17   WT Deer   Female   1   July 6, 2021   4:06am   17   WT Deer   Female   1   July 6, 2021   4:06am   12   WT Deer   Female   1   July 6, 2021   4:05am   12   WT Deer   Female   1   July 6, 2021   4:05am   12   WT Deer   Female   1   July 6, 2021   4:05am   12   WT Deer   Female   1   July 6, 2021   4:05am   12   WT	
June 10, 2021   8:01pm   20   WT Deer   Male   1   June 10, 2021   5:01pm   22   WT Deer   Female   1   June 10, 2021   5:01pm   22   WT Deer   Unknown   1   Head   June 11, 2021   11:56pm   11   Deer   female   1   June 13, 2021   9:03am   25   WT Deer   female   1   June 14, 2021   7:33pm   29   WT Deer   female   1   June 14, 2021   7:33pm   29   WT Deer   female   1   June 14, 2021   8:25pm   29   WT Deer   female   1   June 17, 2021   8:25pm   29   WT Deer   female   1   June 17, 2021   12:05pm   25   Coyote   Unknown   1   June 17, 2021   12:05pm   25   Coyote   Unknown   1   June 17, 2021   3:25pm   25   WT Deer   female   1   June 17, 2021   3:25pm   25   WT Deer   female   1   June 20, 2021   3:53am   10   WT Deer   female   1   June 20, 2021   8:55am   25   WT Deer   female   1   June 22, 2021   8:55am   25   WT Deer   female   1   June 22, 2021   8:55am   25   WT Deer   female   1   June 24, 2021   10:32pm   14   Foxcoyote? Unknown   1   Dark/l June 26, 2021   8:19pm   25   WT Deer   Male   1   June 26, 2021   8:19pm   25   WT Deer   Male   1   June 28, 2021   8:17pm   29   WT Deer   Male   1   June 29, 2021   8:17pm   21   WT Deer   Male   1   June 30, 2021   5:06am   13   WT Deer   Female   1   June 30, 2021   5:06am   13   WT Deer   Male   1   June 30, 2021   5:06am   13   WT Deer   Male   1   June 30, 2021   5:06am   14   Mule Deer   Female   1   June 30, 2021   5:06am   14   Mule Deer   Female   1   June 30, 2021   10:02pm   23   WT Deer   Male   1   June 30, 2021   10:02pm   23   WT Deer   Male   1   July 3, 2021   10:02pm   23   WT Deer   Male   1   July 5, 2021   12:0am   27   WT Deer   Male   1   July 5, 2021   12:46am   17   WT Deer   Female   1   July 5, 2021   4:05am   20   WT Deer   Female   1   July 5, 2021   4:05am   20   WT Deer   Female   1   July 5, 2021   4:05am   20   WT Deer   Female   1   July 6, 2021   4:05am   20   WT Deer   Female   1   July 6, 2021   4:05am   20   WT Deer   Female   1   July 6, 2021   4:05am   20   WT Deer   Female   1   July 6, 2021   4:05am   20   WT Dee	
June 10, 2021   8:01pm   20   WT Deer   Male   1   June 10, 2021   5:01pm   22   WT Deer   Female   1   June 10, 2021   5:01pm   22   WT Deer   Unknown   1   Head   June 11, 2021   11:56pm   11   Deer   female   1   June 13, 2021   9:03am   25   WT Deer   female   1   June 14, 2021   7:33pm   29   WT Deer   Female   1   June 14, 2021   7:33pm   29   WT Deer   Female   1   June 14, 2021   8:25pm   29   WT Deer   Female   1   June 17, 2021   8:25pm   29   WT Deer   Female   1   June 17, 2021   12:05pm   25   Coyote   Unknown   1   June 17, 2021   12:05pm   25   Coyote   Unknown   1   June 17, 2021   3:25pm   25   WT Deer   Female   1   June 17, 2021   3:25pm   25   WT Deer   Female   1   June 20, 2021   1:53am   10   WT Deer   Female   1   June 22, 2021   8:55am   25   WT Deer   Female   1   June 22, 2021   8:55am   25   WT Deer   Female   1   June 22, 2021   8:55am   25   WT Deer   Female   1   June 24, 2021   10:32pm   14   Foxcoyote? Unknown   1   Dark/l June 26, 2021   8:19pm   25   WT Deer   Male   1   June 26, 2021   8:19pm   21   WT Deer   Male   1   June 29, 2021   8:19pm   21   WT Deer   Male   1   June 30, 2021   5:06am   13   WT Deer   Female   1   June 30, 2021   5:06am   13   WT Deer   Female   1   June 30, 2021   5:06am   13   WT Deer   Female   1   June 30, 2021   5:06am   13   WT Deer   Female   1   June 30, 2021   5:06am   13   WT Deer   Female   1   June 30, 2021   5:06am   13   WT Deer   Female   1   June 30, 2021   5:06am   13   WT Deer   Female   1   June 30, 2021   5:06am   13   WT Deer   Female   1   July 3, 2021   10:02pm   23   WT Deer   Female   1   July 3, 2021   10:02pm   23   WT Deer   Female   1   July 3, 2021   10:02pm   23   WT Deer   Female   1   July 3, 2021   10:02pm   23   WT Deer   Female   1   July 4, 2021   8:49pm   23   WT Deer   Female   1   July 5, 2021   4:06am   17   WT Deer   Female   1   July 5, 2021   4:06am   17   WT Deer   Female   1   July 5, 2021   4:06am   17   WT Deer   Female   1   July 5, 2021   4:05am   20   WT Deer   Female   1   July 6, 2021   8:31pm   2	
June 10, 2021   8:45am   17   WT Deer   Female   1   June 10, 2021   5:01pm   22   WT Deer   Unknown   1   Head   June 11, 2021   9:03am   25   WT Deer   female   1   June 14, 2021   7:33pm   29   WT Deer   Female   1   June 14, 2021   8:25pm   29   WT Deer   Female   1   June 14, 2021   8:25pm   29   WT Deer   Female   1   June 14, 2021   8:25pm   29   WT Deer   Female   1   June 17, 2021   12:05pm   25   Coyote   Unknown   1   June 17, 2021   3:25pm   25   WT Deer   Female   1   June 17, 2021   3:25pm   25   WT Deer   Female   1   June 17, 2021   3:25pm   25   WT Deer   Female   1   June 20, 2021   1:53am   10   WT Deer   Female   1   June 22, 2021   8:55am   25   WT Deer   Female   1   June 24, 2021   10:32pm   14   Fox/coyote?   Unknown   1   Dark/l June 25, 2021   8:13am   6   WT Deer   Male   1   June 26, 2021   10:32pm   14   Fox/coyote?   Unknown   1   Dark/l June 26, 2021   10:32pm   25   WT Deer   Male   1   June 29, 2021   8:17pm   25   WT Deer   Male   1   June 29, 2021   5:06am   13   WT Deer   Male   1   June 30, 2021   5:06am   13   WT Deer   Female   1   June 30, 2021   5:06am   13   WT Deer   Male   1   June 30, 2021   5:06am   14   Mule Deer   Female   1   June 30, 2021   5:08am   14   Mule Deer   Female   1   Juny 3, 2021   10:22am   27   WT Deer   Male   1   Juny 3, 2021   10:22am   27   WT Deer   Male   1   Juny 3, 2021   10:02pm   23   WT Deer   Female   1   Juny 3, 2021   10:02pm   23   WT Deer   Female   1   Juny 3, 2021   10:02pm   23   WT Deer   Female   1   Juny 4, 2021   4:06am   27   WT Deer   Female   1   Juny 5, 2021   4:06am   27   WT Deer   Female   1   Juny 5, 2021   4:06am   12   WT Deer   Female   1   Juny 5, 2021   4:05am   20   WT Deer   Female   1   Juny 6, 2021   4:05am   12   WT Deer   Female   1   Juny 6, 2021   4:05am   12   WT Deer   Female   1   Juny 6, 2021   4:05am   12   WT Deer   Female   1   Juny 6, 2021   4:05am   12   WT Deer   Female   1   Juny 6, 2021   4:05am   12   WT Deer   Female   1   Juny 6, 2021   4:05am   12   WT Deer   Female   1   Juny 6, 2021	
June 10, 2021   5:01pm   22   WT Deer   Unknown   1   Head	
June 11, 2021	nents
June 13, 2021   9:03am   25   WT Deer   female   1   June 14, 2021   7:33pm   29   WT Deer   Female   1   June 14, 2021   8:25pm   29   WT Deer   Female   1   June 14, 2021   8:25pm   29   WT Deer   Female   1   June 17, 2021   2:22am   7   WT Deer   Female   1   June 17, 2021   12:05pm   25   Coyote   Unknown   1   June 17, 2021   3:25pm   25   WT Deer   Female   1   June 17, 2021   3:25pm   25   WT Deer   Female   1   June 17, 2021   3:25pm   25   WT Deer   Female   1   June 20, 2021   1:53am   10   WT Deer   Female   1   June 22, 2021   8:55am   25   WT Deer   Female   1   June 23, 2021   9:33pm   18   WT Deer   Female   1   June 24, 2021   10:32pm   14   Fox/coyote? Unknown   1   Dark/l June 25, 2021   8:19pm   25   WT Deer   Male   1   June 26, 2021   8:19pm   25   WT Deer   Male   1   June 26, 2021   8:17pm   29   WT Deer   Male   1   June 29, 2021   8:17pm   29   WT Deer   Male   1   June 30, 2021   5:08am   13   WT Deer   Female   1   June 30, 2021   5:08am   14   Mule Deer   Female   1   June 30, 2021   5:08am   14   Mule Deer   Female   1   June 30, 2021   10:22am   34   WT Deer   Male   1   June 30, 2021   10:22am   34   WT Deer   Male   1   June 30, 2021   10:22am   34   WT Deer   Female   1   June 30, 2021   10:22am   34   WT Deer   Female   1   June 30, 2021   10:22am   34   WT Deer   Female   1   June 30, 2021   10:22am   34   WT Deer   Female   1   June 30, 2021   10:22am   34   WT Deer   Female   1   June 30, 2021   10:22am   34   WT Deer   Female   1   June 30, 2021   10:22am   34   WT Deer   Female   1   June 30, 2021   10:22am   34   WT Deer   Female   1   June 30, 2021   10:22am   34   WT Deer   Female   1   June 30, 2021   10:22am   34   WT Deer   Female   1   June 30, 2021   10:22am   34   WT Deer   Female   1   June 30, 2021   10:22am   34   WT Deer   Female   1   June 30, 2021   10:22am   34   WT Deer   Female   1   June 30, 2021   10:22am   20   WT Deer   Female   1   June 30, 2021   10:22am   20   WT Deer   Female   1   June 30, 2021   10:22am   20   WT Deer   Female   1   June 30,	nents
June 14, 2021	nents
June 14, 2021	ients
Date   Time   Temper ature (°C)   Type   Gender   Number   Common	ients
June 17, 2021   2:22am   7   WT Deer   Female   1   June 17, 2021   12:05pm   25   Coyote   Unknown   1   June 17, 2021   3:25pm   25   WT Deer   Female   1   June 17, 2021   3:25pm   25   WT Deer   Female   1   June 20, 2021   1:53am   10   WT Deer   Female   1   June 22, 2021   8:55am   25   WT Deer   Female   1   June 22, 2021   8:55am   25   WT Deer   Female   1   June 23, 2021   9:33pm   18   WT Deer   Female   1   June 24, 2021   10:32pm   14   Fox/coyote? Unknown   1   Dark/t June 26, 2021   5:13am   6   WT Deer   Male   1   June 26, 2021   8:19pm   25   WT Deer   Male   1   June 29, 2021   8:19pm   25   WT Deer   Female   1   June 29, 2021   8:17pm   29   WT Deer   Female   1   June 30, 2021   5:08am   13   WT Deer   Male   1   June 30, 2021   5:08am   14   Mule Deer   Female   1   July 2, 2021   10:22am   34   WT Deer   Female   1   July 3, 2021   10:22am   34   WT Deer   Male   1   July 3, 2021   12:10am   27   WT Deer   Male   1   July 3, 2021   12:10am   27   WT Deer   Male   1   July 4, 2021   8:49pm   23   WT Deer   Female   1   July 5, 2021   12:46am   17   WT Deer   Female   1   July 5, 2021   4:06am   16   WT Deer   Female   1   July 5, 2021   6:37am   20   WT Deer   Female   1   July 5, 2021   4:05am   12   WT Deer   Female   1   July 5, 2021   4:05am   12   WT Deer   Female   1   July 6, 2021   4:05am   12   WT Deer   Female   1   July 6, 2021   8:31pm   20   WT Deer   Female   1   July 6, 2021   8:31pm   20   WT Deer   Female   1   July 6, 2021   5:38am   13   WT Deer   Female   1   July 7, 2021   5:38am   13   WT Deer   Female   1   July 7, 2021   5:38am   13   WT Deer   Female   1   July 7, 2021   7:40pm   28   WT Deer   Female   1   July 7, 2021   7:40pm   28   WT Deer   Female   1   July 7, 2021   7:40pm   28   WT Deer   Female   1   July 7, 2021   7:40pm   28   WT Deer   Female   1   July 7, 2021   7:40pm   28   WT Deer   Female   1   July 7, 2021   7:40pm   28   WT Deer   Female   1   July 7, 2021   7:40pm   28   WT Deer   Female   1   July 7, 2021   7:40pm   28   WT Deer   Female	nents
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June 22, 2021         8:55am         25         WT Deer         female           June 23, 2021         9:33pm         18         WT Deer         Female         1           June 24, 2021         10:32pm         14         Fox/coyote?         Unknown         1         Dark/II           June 25, 2021         5:13am         6         WT Deer         Male         1           June 26, 2021         8:19pm         25         WT Deer         Male         1           June 26, 2021         10:39pm         21         WT Deer         female         1           June 29, 2021         8:17pm         29         WT Deer         Female         1           June 30, 2021         5:06am         13         WT Deer         Male         1         young           June 30, 2021         5:08am         14         Mule Deer         Female         1         young           June 30, 2021         10:22am         34         WT Deer         Female         1         young           July 2, 2021         11:51pm         27         WT Deer         Female         1         July         1         July         2         July         July         1         July         2	
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July 4, 2021         8:49pm         23         WT Deer         Female         1           July 5, 2021         12:46am         17         WT Deer         Female         1           July 5, 2021         4:00am         16         WT Deer         Female         1           July 5, 2021         6:37am         20         WT Deer         Mom and Fawns         3           July 5, 2021         1:01pm         26         WT Deer         Male         1           July 6, 2021         4:05am         12         WT Deer         Female         1           July 6, 2021         8:31pm         20         WT Deer         Female         1           July 7, 2021         5:38am         13         WT Deer         Female and fawn         2           July 7, 2021         7:38pm         28         WT Deer         Female and fawn         2           July 7, 2021         7:40pm         28         WT Deer         Female and fawn         2	
July 5, 2021       12:46am       17       WT Deer       Female       1         July 5, 2021       4:00am       16       WT Deer       Female       1         July 5, 2021       6:37am       20       WT Deer       Mom and Fawns         July 5, 2021       1:01pm       26       WT Deer       Male       1         July 6, 2021       4:05am       12       WT Deer       Female       1         July 6, 2021       8:31pm       20       WT Deer       Female       1         July 7, 2021       5:38am       13       WT Deer       Female and fawn       2         July 7, 2021       7:38pm       28       WT Deer       Female       1         July 7, 2021       7:40pm       28       WT Deer       Female and fawn       2	
July 5, 2021       4:00am       16       WT Deer       Female       1         July 5, 2021       6:37am       20       WT Deer       Mom and 3 Fawns         July 5, 2021       1:01pm       26       WT Deer       Male       1         July 6, 2021       4:05am       12       WT Deer       Female       1         July 6, 2021       8:31pm       20       WT Deer       Female       1         July 7, 2021       5:38am       13       WT Deer       Female and 2 fawn         July 7, 2021       7:38pm       28       WT Deer       Female       1         July 7, 2021       7:40pm       28       WT Deer       Female and 2 fawn	
July 5, 2021       6:37am       20       WT Deer       Mom and Fawns       3         July 5, 2021       1:01pm       26       WT Deer       Male       1         July 6, 2021       4:05am       12       WT Deer       Female       1         July 6, 2021       8:31pm       20       WT Deer       Female       1         July 7, 2021       5:38am       13       WT Deer       Female and fawn       2         July 7, 2021       7:38pm       28       WT Deer       Female       1         July 7, 2021       7:40pm       28       WT Deer       Female and fawn       2	
Fawns	
July 6, 2021       4:05am       12       WT Deer       Female       1         July 6, 2021       8:31pm       20       WT Deer       Female       1         July 7, 2021       5:38am       13       WT Deer       Female and fawn       2         July 7, 2021       7:38pm       28       WT Deer       Female       1         July 7, 2021       7:40pm       28       WT Deer       Female and fawn       2	
July 6, 2021       8:31pm       20       WT Deer       Female       1         July 7, 2021       5:38am       13       WT Deer       Female and fawn         July 7, 2021       7:38pm       28       WT Deer       Female       1         July 7, 2021       7:40pm       28       WT Deer       Female and fawn       2	
July 7, 2021       5:38am       13       WT Deer       Female and fawn       2         July 7, 2021       7:38pm       28       WT Deer       Female       1         July 7, 2021       7:40pm       28       WT Deer       Female and fawn       2	
Second	
July 7, 2021         7:38pm         28         WT Deer         Female         1           July 7, 2021         7:40pm         28         WT Deer         Female and fawn         2	
July 7, 2021 7:40pm 28 WT Deer Female and 2 fawn	
July 7, 2021 9:09pm 25 WT Deer Female 1	
July 7, 2021         9:27pm         25         Coyote         Unknown         1           July 8, 2021         5:42cm         41         WT Door         Female         4	
July 8, 2021 5:12am 11 WT Deer Female 1	
July 8, 2021         9:41am         28         WT Deer         Female         1           July 8, 2021         5:23am         44         WT Deer         Mele         4	
July 9, 2021 5:33am 11 WT Deer Male 1	
July 9, 2021         6:21am         16         WT Deer         Male         1           July 10, 2021         9:37am         29         WT Deer         Male         1	
5 a. j . c j 2 d 2	
Camera   Date   Time   Temper ature (°C)   Type   Gender   Number   Common comm	
July 10, 2021 8:34pm 29 WT Deer Female 1	ients
July 10, 2021 9:45pm 25 WT Deer Female 1	ients
July 11, 2021 8:02pm 25 WT Deer Female 1	nents
July 12, 2021 11:23pm 14 WT Deer Female 1	nents
July 13, 2021 8:51pm 25 WT Deer Female 1	nents
July 14, 2021 5:36am 10 WT Deer Female and 2	nents
Fawn	nents



1			1,,,,,,,			
July 15,		11	WT Deer	Female	1	
July 15,		16	WT Deer	Female	1	
July 15,	2021 8:44pm	28	WT Deer	Female	1	
July 16,	2021 1:30pm	29	WT Deer	Female and Fawn	2	
July 17,	2021 2:18am	19	WT Deer	Female	1	
July 17,	2021 10:51am	28	WT Deer	Female and Fawn	2	
July 17,	2021 11:02pm	22	WT Deer	Female	1	
July 20,	2021 3:15am	15	WT Deer	Female	1	
July 21,	2021 4:15am	15	Coyote	Unknown	1	
July 21,	2021 4:50	14	WT Deer	Female	1	
July 23,	2021 8:35am	22	WT Deer	Unknown	1	Head not in shot
July 23,	2021 9:24pm	23	WT Deer	Female	1	
July 24,	2021 6:02am	10	WT Deer	Female	1	
July 25,	2021 11:02am	27	WT Deer	Female and Fawn	2	
July 26,	2021 6:31am	13	WT Deer	Female	1	
July 26,	2021 7:34pm	27	Coyote	Unknown	1	
July 27,	2021 3:41am	11	Coyote?	unknown	1	Dark and blurry
July 27,	2021 9:52am	27	WT Deer	Female	1	
July 28,	2021 2:45am	14	Coyote	Unknown	1	
July 28,	2021 6:07am	12	WT Deer	Female	1	
July 28,	2021 9:39pm	20	Moose	Female	1	
July 30,	2021 8:19am	25	WT Deer	Female	1	
July 31,	2021 6:04am	9	WT Deer	Female	2	
Aug 1, 2	021 3:26am	11	Coyote	Unknown	1	
Aug 1, 2	021 11:43pm	17	WT Deer	Female	1	
Aug 3, 2	021 12:48am	20	WT Deer	Female	1	
Aug 5, 2	021 6:59am	11	WT Deer	Female	1	
Aug 5, 2	021 7:02am	12	WT Deer	Fawns	2	
Aug 9, 2	021 3:53am	15	WT Deer	Female	1	
Aug 10,	2021 12:28am	10	Covote?	Unknown	1	



Table B-III 14. Maple Grove Wildlife Camera Records. Meewasin. Recorded Various 2020, 2021.

Browning Da			1				
Camera ID	Date	Time	Temperature (°C)			ecies	1
	10.0001			Туре	Gender	Number	Comments
	Aug 10, 2021	7:53pm	23	WT Deer	Female	1	<del> </del>
	Aug 11, 2021	1:47am	12	WT Deer	Unknown	1	No head in
		2.10		11/7-5	L		shot
	Aug 11, 2021	8:10pm	20	WT Deer	Female	1	
	Aug 11, 2021	8:56pm	17	WT Deer	Female and	2	
					Fawn		
	Aug 13, 2021	5:29	8	WT Deer	Female and	2	
	10.0001			11/7-5	Fawn		
	Aug 13, 2021	7:17AM	10	WT Deer	Female	1	
	Aug 13, 2021	9:40pm	19	Coyote	Unknown	1	
	Aug 15, 2021	1:50am	14	WT Deer	Female	1	
	Aug 16, 2021	1:13am	15	WT Deer	Female	1	
	Aug 17, 2021	4:22am	14	WT Deer	Female	1	
	Aug 18, 2021	7:25pm	20	Fawn	unknown	1	
	Aug 19, 2021	3:21am	7	Coyote?	unknown	1	Dark and
							blurry
	Aug 19, 2021	6:41am	6	WT Deer	Female	1	
	Aug 19, 2021	6:09pm	24	WT Deer	Female	1	
	Aug 20, 2021	9:27am	14	WT Deer	Female and	2	
					Fawn		
	Aug 21, 2021	8:01am	11	WT Deer	Female	1	
	Aug 23, 2021	5:47am	6	Fawn		1	
	Aug 25, 2021	6:58am	4	WT Deer	Female and	2	
					Fawn		
	Aug 26, 2021	5:15am	4	WT Deer	Female	1	
	Aug 26, 2021	5:38am	4	WT Deer	Female	1	
	Aug 28, 2021	6:17pm	22	WT Deer	Female	1	
	Aug 28, 2021	11:41pm	9	Coyote	Unknown	1	
	Aug 30, 2021	1:24am	8	Coyote	Unknown	1	
	Aug 30, 2021	6:27am	7	WT Deer	Female	1	
	Aug 31, 2021	12:49pm	29	WT Deer	Female and	2	
	Aug 31, 2021	12.49pm	29	W I Deel	Fawn	2	
	Aug 31, 2021	8:32pm	15	Coyote	Unknown	1	
	Sept 1, 2021	6:50am	9	WT Deer	Female	1	
	Sept 1, 2021	7:11am	9	WT Deer	Male	1	
	Sept 1, 2021	7:25pm	19	WT Deer	Male	1	
	Sept 3, 2021	6:20pm	21	WT Deer	Female and	2	
	0 10 0001			11/7-5	Fawn		
	Sept 3, 2021	6:21pm	21	WT Deer	Female	1	
	Sept 3, 2021	6:22pm	22	WT Deer	Fawn	1	
	Sept 5, 2021	12:40am	7	Moose	male	1	
	Sept 5, 2021	6:05pm	27	Fawn	Unknown	1	
	Sept 8, 2021	7:42am	4	WT Deer	Female	1	
	Sept 8, 2021	8:02am	6	WT Deer	Female and	2	
					Fawn		
Camera ID	Date	Time	Temperature (°C)			ecies	
				Туре	Gender	Number	Comments
	Sept 9, 2021	11:29am	24	WT Deer	Fawn	1	1
	Sept 9, 2021	6:05pm	27	WT Deer	Female	2	
	Sept 11,2021	8:32am	6	WT Deer	Male	1	
	Sept 11, 2021	10:07am	10	Coyotes	Unknown	2	
	Sept 13, 2021	4:02am	10	WT Deer	Female	1	
	Sept 17, 2021	7:06am	-4	WT Deer	Female	1	
	Sept 17, 2021	8:35am	3	WT Deer	Female	1	
	Sept 17, 2021	4:21pm	19	WT Deer	Female	2	1
	Sept 19, 2021	12:26pm	21	Coyote	Unknown	1	1
	Sept 19, 2021	10:44pm	6	Coyote	Unknown	1	
	Sept 19, 2021	8:27am	5	WT Deer	Female	1	
		9:23am	6	WT Deer	Female	1	1
	Sept 21, 2021 Sept 21, 2021	9:24am	7	WT Deer	Female	1	+
l	Jept 21, 2021					l l	
	Jan 3, 2017	11:41pm	21	WT Deer	Female	1	*wrong dates



DI-14 40 45	In 7 0047	2.40	140	WT Dee		14	Na basal is
Plot1_10_15 2020	Jan 7, 2017	3:42pm	13	WT Dee	Unknown	1	No head in shot
	Jan7, 2017	5:01pm	18	WT Dee	r Female	1	0.101
	Jan 7, 2017	6:57pm	20	WT Dee		1	
	Jan 8, 2017	3:13am	25	WT Dee		1	
	Jan 8, 2017	4:15am	21	WT Dee	r Female	1	
	Jan 8, 2017	4:39pm	11	WT Dee		1	
	Jan 9, 2017	12:22pm	6	WT Dee	r Male	1	
	Jan 10, 2017	12:41am	13	WT Dee	r Male	1	
	Jan 11, 2017	4:13am	17	WT Dee	r Female	1	
	Jan 12, 2017	5:33am	14	WT Dee	r Female	1	
	Jan 14, 2017	3:44am	16	WT Dee		2	
					female		
	Jan 15, 2017	7:19am	11	WT Dee		1	
	Jan15, 2017	6:25pm	10	WT Dee		2	
	Jan, 16, 2017	1:12am	16	WT Dee		1	
	Jan 17, 2017	2:02am	21	WT Dee		1	
	Jan 17, 2017	5:24pm	10	WT Dee		1	
	Jan 18, 2017	4:50pm	11	WT Dee		2	
					fawn	_	
	Jan 21, 2017	4:18pm	-4	WT Dee		2	
	lon 04 0047	7:07:55	10	WITD	Fawn	1	
	Jan 21, 2017 Jan 29, 2017	7:07pm 4:44pm	9	WT Dee		1	
	Jan 29, 2017 Jan 29, 2017	5:04pm	4	WT Dee			
	Jan 29, 2017	5.04pm	4	WIDEE	fawn	3	
	Jan 31, 2017	4:14pm	-1	WT Dee		1	
Camera ID	Date	Time	Temperature	WIBCC	Spe		
			(°C)	Туре	Gender	Number	Comments
	Feb 1, 2017	4:29pm	5	WT Deer	Female	1	
	Feb 1, 2017	8:39pm	26	Magpie	Unknown	1	
	Feb 4, 2017	2:33am	22	WT Deer	Unknown	1	
	Feb 5, 2017	1:55pm	9	WT Deer	Female	1	
		40.50	0.5				
	Feb 5, 2017	10:52pm	25	WT Deer	Male	1	
	Feb 10, 2017	2:25pm	-1	WT Deer	Female	2	
	Feb 10, 2017 Feb 11, 2017	2:25pm 3:15am	-1 21	WT Deer WT Deer	Female Female	2	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017	2:25pm 3:15am 4:20pm	-1 21 -6	WT Deer WT Deer WT Deer	Female Female Female	2 1 2	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 17, 2017	2:25pm 3:15am 4:20pm 3:28am	-1 21 -6 18	WT Deer WT Deer WT Deer WT Deer	Female Female Female Female	2 1 2 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017	2:25pm 3:15am 4:20pm 3:28am 2:18pm	-1 21 -6 18 7	WT Deer WT Deer WT Deer WT Deer WT Deer	Female Female Female Female Female	2 1 2 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am	-1 21 -6 18 7	WT Deer	Female Female Female Female Female Female	2 1 2 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am	-1 21 -6 18 7 10	WT Deer	Female Female Female Female Female Female Female Female	2 1 2 1 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am	-1 21 -6 18 7 10 14 9	WT Deer	Female Female Female Female Female Female Female Female Female	2 1 2 1 1 1 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am	-1 21 -6 18 7 10 14 9	WT Deer Mule Deer	Female Female Female Female Female Female Female Female Female Male	2 1 2 1 1 1 1 1 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 22, 2017	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm	-1 21 -6 18 7 10 14 9 4 2	WT Deer Mule Deer WT Deer	Female Male Female	2 1 2 1 1 1 1 1 1 1 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 22, 2017 Feb 24, 2017	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm 8:48am	-1 21 -6 18 7 10 14 9 4 2	WT Deer Mule Deer WT Deer WT Deer	Female Male Female Female	2 1 2 1 1 1 1 1 1 1 1 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 22, 2017	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm	-1 21 -6 18 7 10 14 9 4 2	WT Deer Mule Deer WT Deer	Female	2 1 2 1 1 1 1 1 1 1 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 22, 2017 Feb 24, 2017 Feb 24, 2017	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm 8:48am 12:01pm	-1 21 -6 18 7 10 14 9 4 2 1	WT Deer	Female Female Female Female Female Female Female Female Female Male Female Female Female Female Female Female Female	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 22, 2017 Feb 24, 2017 Feb 24, 2017 Feb 24, 2017	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm 8:48am 12:01pm	-1 21 -6 18 7 10 14 9 4 2	WT Deer Mule Deer WT Deer WT Deer WT Deer WT Deer WT Deer WT Deer	Female Male Female	2 1 2 1 1 1 1 1 1 1 1 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 24, 2017 Feb 24, 2017 Feb 24, 2017 Feb 24, 2017 Feb 25, 2017	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm 8:48am 12:01pm	-1 21 -6 18 7 10 14 9 4 2 1 -1	WT Deer	Female Female Female Female Female Female Female Female Female Male Female Female Female Female Female Female Female	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 22, 2017 Feb 24, 2017 Feb 24, 2017 Feb 24, 2017	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm 8:48am 12:01pm	-1 21 -6 18 7 10 14 9 4 2 1 -1	WT Deer Mule Deer WT Deer	Female Female Female Female Female Female Female Female Female Male Female	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 13, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 24, 2017 Feb 24, 2017 Feb 24, 2017 Feb 24, 2017 Feb 25, 2017 Feb 26, 2017	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm 8:48am 12:01pm 12:58pm 3:32pm 2:38am	-1 21 -6 18 7 10 14 9 4 2 1 -1	WT Deer	Female Female Female Female Female Female Female Female Female Male Female Female with young Male Female	2 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 13, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 24, 2017 Feb 24, 2017 Feb 24, 2017 Feb 25, 2017 Feb 26, 2017 Feb 26, 2017	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm 8:48am 12:01pm 12:58pm 3:32pm 2:38am 6:33am	-1 21 -6 18 7 10 14 9 4 2 1 -1 -2 0 7	WT Deer	Female Male Female	2 1 2 1 1 1 1 1 1 1 1 1 1 2	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 24, 2017 Feb 24, 2017 Feb 25, 2017 Feb 26, 2017 Feb 26, 2017 Feb 26, 2017 Feb 27, 2017	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm 8:48am 12:01pm 12:58pm 3:32pm 2:38am 6:33am 11:01pm	-1 21 -6 18 7 10 14 9 4 2 1 -1 -2 0 7	WT Deer Coyote	Female Male Female Female Female Female Female Female Female With young Male Female Female Female Female Female Female Female Female Female	2 1 2 1 1 1 1 1 1 1 1 1 1 2	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 13, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 24, 2017 Feb 24, 2017 Feb 24, 2017 Feb 25, 2017 Feb 26, 2017 Feb 26, 2017 Feb 26, 2017 Feb 27, 2017	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm 8:48am 12:01pm 12:58pm 3:32pm 2:38am 6:33am 11:01pm 2:57am	-1 21 -6 18 7 10 14 9 4 2 1 -1 -2 0 7 1	WT Deer	Female Unknown Male	2 1 2 1 1 1 1 1 1 1 1 1 2	
Plot 2 5/18	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 24, 2017 Feb 24, 2017 Feb 25, 2017 Feb 26, 2017 Feb 26, 2017 Feb 26, 2017 Feb 27, 2017	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm 8:48am 12:01pm 12:58pm 3:32pm 2:38am 6:33am 11:01pm 2:57am 1:31pm 4:37pm 10:03am	-1 21 -6 18 7 10 14 9 4 2 1 -1 -2 0 7 1 1 1	WT Deer	Female Unknown Male Female Female	2 1 2 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1	
Plot 2 5/18 2021	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 24, 2017 Feb 24, 2017 Feb 25, 2017 Feb 26, 2017 Feb 26, 2017 Feb 27, 2017	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm 8:48am 12:01pm 12:58pm 3:32pm 2:38am 6:33am 11:01pm 2:57am 1:31pm 4:37pm 10:03am 3:52pm	-1 21 -6 18 7 10 14 9 4 2 1 -1 -2 0 7 1 1 1 -7 -5 -4 3	WT Deer	Female Unknown Male Female	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 24, 2017 Feb 24, 2017 Feb 25, 2017 Feb 26, 2017 Feb 26, 2017 Feb 27, 2017 Feb 27, 2017 Feb 27, 2017 Feb 27, 2017 Oct 19 2020 Oct 19 2020 Oct 22 2020	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm 8:48am 12:01pm 12:58pm 3:32pm 2:38am 6:33am 11:01pm 2:57am 1:31pm 4:37pm 10:03am 3:52pm 7:09am	-1 21 -6 18 7 10 14 9 4 2 1 -1 -2 0 7 1 1 1 -7 -5 -4 3 -16	WT Deer	Female Unknown Male Female	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 24, 2017 Feb 24, 2017 Feb 25, 2017 Feb 26, 2017 Feb 26, 2017 Feb 27, 2017 Feb 27, 2017 Feb 27, 2017 Feb 27, 2017 Oct 19 2020 Oct 19 2020 Oct 22 2020 Oct 23 2020	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm 8:48am 12:01pm 12:58pm 3:32pm 2:38am 6:33am 11:01pm 2:57am 1:31pm 4:37pm 10:03am 3:52pm 7:09am 4:56am	-1 21 -6 18 7 10 14 9 4 2 1 -1 -2 0 7 1 1 1 -7 -5 -4 3 -16 -16	WT Deer	Female Vith young Male Female	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 24, 2017 Feb 24, 2017 Feb 25, 2017 Feb 26, 2017 Feb 26, 2017 Feb 27, 2017 Oct 19 2020 Oct 19 2020 Oct 23 2020 Oct 23 2020	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm 8:48am 12:01pm 12:58pm 3:32pm 2:38am 6:33am 11:01pm 2:57am 1:31pm 4:37pm 10:03am 3:52pm 7:09am 4:56am 1:52pm	-1 21 -6 18 7 10 14 9 4 2 1 -1 -2 0 7 1 1 1 -7 -5 -4 3 -16 -16 -2	WT Deer	Female Vith young Male Female Female Female Female Female Female Female Unknown Male Female	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 24, 2017 Feb 24, 2017 Feb 25, 2017 Feb 26, 2017 Feb 26, 2017 Feb 27, 2017 Oct 19 2020 Oct 23 2020 Oct 23 2020 Oct 23 2020 Oct 23 2020	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm 8:48am 12:01pm  12:58pm 2:38am 6:33am 11:01pm 2:57am 1:31pm 4:37pm 10:03am 3:52pm 7:09am 4:56am 1:52pm 9:23pm	-1 21 -6 18 7 10 14 9 4 2 1 -1 -2 0 7 1 1 1 1 -7 -5 -4 3 -16 -16 -2 -8	WT Deer Coyote WT Deer WT Deer WT Deer WT Deer Coyote WT Deer WT Deer WT Deer WT Deer WT Deer Coyote	Female Vith young Male Female Female Female Female Female Female Unknown Male Female Unknown	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 22, 2017 Feb 24, 2017 Feb 24, 2017 Feb 24, 2017 Feb 25, 2017 Feb 26, 2017 Feb 26, 2017 Feb 27, 2017 Oct 19 2020 Oct 22 2020 Oct 23 2020 Oct 23 2020 Oct 24 2020	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm 8:48am 12:01pm  12:58pm 2:38am 6:33am 11:01pm 2:57am 1:31pm 4:37pm 10:03am 3:52pm 7:09am 4:56am 1:52pm 9:23pm 8:50am	-1 21 -6 18 7 10 14 9 4 2 1 -1 -2 0 7 1 1 1 -7 -5 -4 3 -16 -16 -2 -8 -8	WT Deer Coyote WT Deer Coyote WT Deer Coyote	Female With young Male Female Female Female Female Female Unknown Male Female	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 24, 2017 Feb 24, 2017 Feb 24, 2017 Feb 25, 2017 Feb 26, 2017 Feb 26, 2017 Feb 26, 2017 Feb 27, 2017 Oct 19 2020 Oct 22 2020 Oct 23 2020 Oct 23 2020 Oct 24 2020 Oct 25 2020	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm 8:48am 12:01pm  12:58pm 3:32pm 2:38am 6:33am 11:01pm 2:57am 1:31pm 4:37pm 10:03am 3:52pm 7:09am 4:56am 1:52pm 9:23pm 8:50am 8:32am	-1 21 -6 18 7 10 14 9 4 2 1 -1 -1 -2 0 7 1 1 1 -7 -5 -4 3 -16 -16 -2 -8 -8 -7	WT Deer Coyote WT Deer Coyote WT Deer Coyote WT Deer Coyote	Female Male Female With young Male Female Female Female Female Female Female Unknown Male Female Unknown Female Unknown	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 13, 2017 Feb 18, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 24, 2017 Feb 24, 2017 Feb 24, 2017 Feb 25, 2017 Feb 26, 2017 Feb 26, 2017 Feb 26, 2017 Feb 27, 2017 Oct 19 2020 Oct 22 2020 Oct 23 2020 Oct 23 2020 Oct 24 2020 Oct 25 2020 Oct 25 2020 Oct 27 2020	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm 8:48am 12:01pm  12:58pm 3:32pm 2:38am 6:33am 11:01pm 2:57am 1:31pm 4:37pm 10:03am 3:52pm 7:09am 4:56am 1:52pm 9:23pm 8:50am 8:32am 7:15am	-1 21 -6 18 7 10 14 9 4 2 1 -1 -1 -2 0 7 1 1 1 -7 -5 -4 3 -16 -16 -2 -8 -8 -7 2	WT Deer Coyote WT Deer WT Deer WT Deer WT Deer Coyote WT Deer WT Deer WT Deer WT Deer WT Deer Coyote WT Deer WT Deer WT Deer WT Deer Coyote WT Deer Coyote WT Deer Coyote Deer	Female Male Female Female with young Male Female Female Female Female Female Female Unknown Male Female Unknown Female Unknown Female Unknown Female	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Feb 10, 2017 Feb 11, 2017 Feb 13, 2017 Feb 13, 2017 Feb 17, 2017 Feb 18, 2017 Feb 19, 2017 Feb 21, 2017 Feb 22, 2017 Feb 22, 2017 Feb 24, 2017 Feb 24, 2017 Feb 24, 2017 Feb 25, 2017 Feb 26, 2017 Feb 26, 2017 Feb 26, 2017 Feb 27, 2017 Oct 19 2020 Oct 22 2020 Oct 23 2020 Oct 23 2020 Oct 24 2020 Oct 25 2020	2:25pm 3:15am 4:20pm 3:28am 2:18pm 4:29am 3:42am 2:02am 3:05am 3:46pm 8:48am 12:01pm  12:58pm 3:32pm 2:38am 6:33am 11:01pm 2:57am 1:31pm 4:37pm 10:03am 3:52pm 7:09am 4:56am 1:52pm 9:23pm 8:50am 8:32am	-1 21 -6 18 7 10 14 9 4 2 1 -1 -1 -2 0 7 1 1 1 -7 -5 -4 3 -16 -16 -2 -8 -8 -7	WT Deer Coyote WT Deer Coyote WT Deer Coyote WT Deer Coyote	Female Male Female With young Male Female Female Female Female Female Female Unknown Male Female Unknown Female Unknown	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	young



Table B-III 15. Maple Grove Wildlife Camera Records. Meewasin. Recorded Aug2020-Jun2021. Browning Dark OPS HD 26LC Units.

Camera	Dark OPS H	Time	Temperature			Species	
ID	2000	1	(°C)	Туре	Gender	Number	Comments
	Oct 30 2020	5:39	-1	WT Deer	Male	1	One antler missing
	Oct 30 2020	4:43pm	8	WT Deer	Female	1	
	Oct 30 2020	11:18pm	-1	WT Deer	Male	1	
	Oct 31 2020	11:22am	1	WT Deer	Female	2	
	Nov 2 2020	4:08am	-4	WT Deer	Male	1	young
	Nov 4 2020	2:31am	-2	Coyote	Unknown	1	
	Nov 5 2020	7:32am	1	WT Deer	Male	1	
	Nov 6 2020	2:54am	0	WT Deer	Male	1	
	Nov 8 2020	7:04am	-8	WT Deer	Female	1	
	Nov 8 2020	2:07pm	-8	Mule Deer	Female	1	
	Nov 10 2020	11:34am	-6	Mule Deer	Male	1	
	Nov 11 2020	2:00am	-9 -5	Mule Deer	Male	1	One antler
	Nov 14 2020	6:30am		Mule Deer WT Deer	Male	1	
	Nov 15 2020	5:16pm	-8 -5		Male Male	1	One ontlor
	Nov 17 2020 Nov 18 2020	4:50pm 4:32pm	-3 -3	Mule Deer Mule Deer	Male	1	One antler
	Nov 19 2020	2:44am	-5 -6	WT Deer	Female	1	
	Nov 25 2020	5:52pm	-2	WT Deer	Female	2	
	Nov 27 2020	3:07pm	11	Mule Deer	Male	1	
	Dec 02 2020	6:00am	-13	Mule Deer	Male	1	
	Dec 8 2020	10:02am	-3	Mule Deer	Male	1	
	Jan 3 2021	9:35pm	-7	Fox	Unknown	1	dark
	Feb 4 2021	8:30am	-20	Fox	Unknown	1	
	Feb 4 2021	10:11am	-15	Fox	Unknown	1	
Plot 2	May 19 2021	5:40am		WT Deer	Female	2	
9/21	May 19 2021	11:28am	7	WT Deer	Female	3	
2021	May 19 2021	3:30pm	26	WT Deer	Female	2	
	May 20 2021	8:58am	2	WT Deer	Female	1	
	May 20 2021	9:33pm	2	WT Deer	Female	1	
	May 21 2021	4:49am	0	WT Deer	Female	4	
	May 21 2021	3:17pm	12	WT Deer	Female	3	
	May 22 2021	7:51pm	12	WT Deer	Male	2	
	May 22 2021	10:13pm	11	WT Deer	Male	1	
	May 23 2021	6:47am	9	WT Deer	Female	1	
	May 24 2021	3:26pm	10 9	WT Deer WT Deer	Female	1	
Comoro	May 24 2021 Date	9:47pm Time	Temperatu	W i Deei	Female	pecies	
Camera ID	Date	Tille	re (°C)	Туре	Gender	Number	Comments
שו	May 25 2021	4:42am	8	WT Deer	Female	1	Comments
	May 25 2021	7:57pm	9	WT Deer	Female	1	
	May 26 2021	9:53pm	7	WT Deer	Female	1	
	May 27 2021	5:25am	-1	WT Deer	Female	1	
	May 27 2021	6:34am	0	Coyote	Unknown	1	
	May 28 2021	5:42am	8	WT Deer	Female	1	
	May 28 2021	10:22am	8	WT Deer	Male	1	
	May 28 2021	8:07pm	16	WT Deer	Male	1	
	May 30 2021	12:12am	8	WT Deer	Female	2	
	May 30 2021	5:32am	-1	WT Deer	Male	1	
	May 30 2021	8:08am	11	WT Deer	Female	1	
	May 30 2021	7:11pm	26	WT Deer	Female	3	
	May 31 2021	10:52pm	15	WT Deer	Female	2	
	Jun 1 2021	4:50am	6	WT Deer	Female	1	
	Jun 1 2021	8:12am	18	WT Deer	Female	1	
	Jun 1 2021	8:18am	20	WT Deer	Female	2	
	Jun 1 2021	5:12pm	29	WT Deer	Male	1	
	Jun 1 2021	5:19pm	29	WT Deer	Female	1	
	Jun 1 2021	9:05pm	25	WT Deer	Female unknown	1	
	Jun 2 2021 Jun 2 2021	1:08am 4:03am	13 10	Skunk WT Deer	Male	1	
	Jun 2 2021 Jun 2 2021	9:29pm	25	WT Deer	Female	1	
	Jun 3 2021	12:43am	15	WT Deer	Female	1	
	Juli J ZUZ I	14.40aiii	10	** 1 DCCI	i Gillale	1 1	I .

	Jun 3 2021	7:41am	16	WT Deer	Male	1	
	Jun 3 2021	7:41am 7:27pm	32	Crow	Unknown	4	
	Jun 3 2021	8:07pm	31	covote	Unknown	1	
	Jun 4 2021	5:41pm	33	WT Deer	Female	1	
	Jun 4 2021	8:23pm	25	WT Deer	Female	3	
	Jun 5 2021	4:17am	18	WT Deer	Female	1	
	Jun 5 2021	7:39am	18	WT Deer	Female	1	
	Jun 5 2021	8:38pm	16	WT Deer	Male	1	
	Jun 6 2021	11:31am	25	WT Deer	Male	2	
	Jun 6 2021	7:22pm	21	WT Deer	Female	2	
	Jun 7 2021	7:22pm	22	WT Deer	Female	1	
	Jun 8 2021	5:51am	4	WT Deer	Female	1	
	Jun 8 2021	7:29am	9	WT Deer	Female	2	
Camera	Date	Time	Temperatu	WIDEE		pecies	
ID	Date	Time	re (°C)	Туре	Gender	Number	Comments
	Jun 8 2021	6:54pm	21	WT Deer	Female	2	Comments
	Jun 9 2021	4:39pm	22	WT Deer	Female	1	
	Jun 9 2021	6:09pm	21	WT Deer	Male	1	
	Jun 9 2021	7:00pm	20	WT Deer	Female	1	
	Jun 9 2021	7:23pm	20	WT Deer	Male	1	
	Jun 10 2021	12:11am	16	WT Deer	Female	1	
	Jun 10 2021	10:53am	22	WT Deer	Male	1	
	Jun 10 2021	8:24pm	16	WT Deer	Female	1	
	Jun 10 2021	9:03pm	16	WT Deer	Female and	2	
	Juli 10 2021	J.00piii		VV I DOG!	fawn	_	
	Jun 10 2021	9:47pm	16	WT Deer	Female	1	
	Jun 10 2021	10:24pm	16	WT Deer	Female	1	
	Jun 11 2021	4:47am	15	WT Deer	Female	1	
	Jun 12 2021	12:05am	10	WT Deer	Female	1	
	Jun 12 2021	5:20am	6	WT Deer	Male	2	
	Jun 12 2021	6:08am	6	WT Deer	Female	1	
	Jun 12 2021	8:01pm	23	WT Deer	Male	1	
	Jun 13 2021	7:08am	8	Snowshoe	Unknown	1	
	0011 10 2021	7.000111		Hare	Officiowit	'	
	Jun 13 2021	11:57pm	15	WT Deer	Female	1	
	Jun 14 2021	12:52am	16	WT Deer	Female and	2	
	0011 14 2021	12.024111	10	WI Booi	Fawn	_	
•					1 am.		
	Jun 14 2021	1:01am	17	WT Deer	Male	1	
Plot 2	Jun 14 2021 Aug 19 2020	1:01am 6:31pm	17 31	WT Deer WT Deer	Male Male	1	
Plot 2 10 15-	Aug 19 2020	6:31pm	31	WT Deer	Male	1	
Plot 2 10_15- 2020							
10_15-	Aug 19 2020 Aug 20 2020	6:31pm 7:34pm	31 27	WT Deer WT Deer	Male Female and fawn	2	
10_15-	Aug 19 2020	6:31pm	31	WT Deer	Male Female and	1	
10_15-	Aug 19 2020 Aug 20 2020 Aug 21 2020	6:31pm 7:34pm 10:43am	31 27 26	WT Deer WT Deer	Male Female and fawn Male	1 2	
10_15-	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020 Aug 25, 2020	6:31pm 7:34pm 10:43am	31 27 26	WT Deer WT Deer	Male Female and fawn Male Female and	1 2	
10_15-	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020	6:31pm 7:34pm 10:43am 8:00pm	31 27 26 21	WT Deer WT Deer WT Deer WT Deer	Male Female and fawn Male Female and fawn	1 2 2	
10_15-	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020 Aug 25, 2020	6:31pm 7:34pm 10:43am 8:00pm 6:43am	31 27 26 21	WT Deer WT Deer WT Deer WT Deer WT Deer Black-capped Chickadee	Male Female and fawn Male Female and fawn Female and fawn	1 2 1 2	
10_15-	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020 Aug 25, 2020 Aug 25, 2020 Aug 26 2020	6:31pm 7:34pm 10:43am 8:00pm 6:43am	31 27 26 21	WT Deer WT Deer WT Deer WT Deer WT Deer Black-capped Chickadee WT Deer	Male Female and fawn Male Female and fawn Female and fawn	1 2 1 2	
10_15-	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020 Aug 25, 2020 Aug 25, 2020 Aug 26 2020 Aug 26 2020	6:31pm 7:34pm 10:43am 8:00pm 6:43am 5:52pm	31 27 26 21 13 28	WT Deer WT Deer WT Deer WT Deer WT Deer Black-capped Chickadee WT Deer WT Deer	Male Female and fawn Male Female and fawn Female Unknown	1 2 1 2 1 1	
10_15-	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020 Aug 25, 2020 Aug 25, 2020 Aug 26 2020 Aug 26 2020 Aug 27 2020	6:31pm 7:34pm 10:43am 8:00pm 6:43am 5:52pm 4:03am 6:31am 3:55pm	31 27 26 21 13 28	WT Deer WT Deer WT Deer WT Deer WT Deer Black-capped Chickadee WT Deer WT Deer WT Deer WT Deer	Male Female and fawn Male Female and fawn Female Unknown Female Female Female Male	1 2 1 1 1 1 1 2 2 1 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1	
10_15-	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020 Aug 25, 2020 Aug 25, 2020 Aug 26 2020 Aug 26 2020 Aug 27 2020 Aug 27 2020	6:31pm 7:34pm 10:43am 8:00pm 6:43am 5:52pm 4:03am 6:31am	31 27 26 21 13 28 9	WT Deer WT Deer WT Deer WT Deer WT Deer Black-capped Chickadee WT Deer WT Deer WT Deer WT Deer WT Deer	Male Female and fawn Male Female and fawn Female Unknown Female Female Female Female	1 2 1 2 1 1 1	
10_15-	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020 Aug 25, 2020 Aug 25, 2020 Aug 26 2020 Aug 26 2020 Aug 27 2020 Aug 27 2020 Aug 28 2020 Aug 28 2020	6:31pm 7:34pm 10:43am 8:00pm 6:43am 5:52pm 4:03am 6:31am 3:55pm 8:11pm 5:41am	31 27 26 21 13 28 9 9 15 11	WT Deer WT Deer WT Deer WT Deer Black-capped Chickadee WT Deer	Male Female and fawn Male Female and fawn Female Unknown Female Female Male Female Male Male	1 2 1 1 1 1 1 2 3 3 1 1	
10_15-	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020 Aug 25, 2020 Aug 25, 2020 Aug 26 2020 Aug 27 2020 Aug 27 2020 Aug 28 2020 Aug 29 2020	6:31pm 7:34pm 10:43am 8:00pm 6:43am 5:52pm 4:03am 6:31am 3:55pm 8:11pm 5:41am 5:35pm	31 27 26 21 13 28 9 9 9	WT Deer WT Deer WT Deer WT Deer Black-capped Chickadee WT Deer	Male Female and fawn Male Female and fawn Female Unknown  Female Female Female Male Female Male Female	1 2 1 1 1 1 1 2 3 1 1 1 1	
10_15-	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020 Aug 25, 2020 Aug 25, 2020 Aug 26 2020 Aug 26 2020 Aug 27 2020 Aug 27 2020 Aug 28 2020 Aug 28 2020	6:31pm 7:34pm 10:43am 8:00pm 6:43am 5:52pm 4:03am 6:31am 3:55pm 8:11pm 5:41am	31 27 26 21 13 28 9 9 15 11	WT Deer WT Deer WT Deer WT Deer Black-capped Chickadee WT Deer	Male Female and fawn Male Female and fawn Female Unknown  Female Female Male Female Male Female Male Female Female Male Female Female Male Female Female	1 2 1 1 1 1 1 2 3 3 1 1	
10_15-	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020 Aug 25, 2020 Aug 25, 2020 Aug 26 2020 Aug 26 2020 Aug 27 2020 Aug 27 2020 Aug 28 2020 Aug 29 2020 Aug 30 2020	6:31pm 7:34pm 10:43am 8:00pm 6:43am 5:52pm 4:03am 6:31am 3:55pm 8:11pm 5:41am 5:35pm 5:48am	31 27 26 21 13 28 9 9 15 11 5 25 6	WT Deer WT Deer WT Deer WT Deer WT Deer Black-capped Chickadee WT Deer	Male Female and fawn Male Female and fawn Female Unknown  Female Female Male Female Male Female Female Male Female Female Male Female Female Male Female Female	1 2 1 1 1 1 1 2 3 3 1 1 1 4	
10_15-	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020 Aug 25, 2020 Aug 25, 2020 Aug 26 2020 Aug 27 2020 Aug 27 2020 Aug 28 2020 Aug 29 2020	6:31pm 7:34pm 10:43am 8:00pm 6:43am 5:52pm 4:03am 6:31am 3:55pm 8:11pm 5:41am 5:35pm	31 27 26 21 13 28 9 9 15 11 5	WT Deer WT Deer WT Deer WT Deer Black-capped Chickadee WT Deer	Male Female and fawn Male Female and fawn Female Unknown  Female Female Male Female Male Female Female Male Female	1 2 1 1 1 1 1 2 3 1 1 1 1	
10_15-	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020 Aug 25, 2020 Aug 25, 2020 Aug 26 2020 Aug 26 2020 Aug 27 2020 Aug 27 2020 Aug 28 2020 Aug 29 2020 Aug 30 2020 Aug 30 2020	6:31pm 7:34pm 10:43am 8:00pm 6:43am 5:52pm 4:03am 6:31am 3:55pm 8:11pm 5:41am 5:35pm 5:48am	31 27 26 21 13 28 9 9 9 15 11 5 25 6	WT Deer WT Deer WT Deer WT Deer WT Deer Black-capped Chickadee WT Deer	Male Female and fawn Male Female and fawn Female Unknown  Female Female Male Female Male Female Female Male Female Female Female Female Male Female Female Adde Female	1 2 1 1 1 1 1 2 3 3 1 1 1 4 2 2	
10_15-	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020 Aug 25, 2020 Aug 25, 2020 Aug 26 2020 Aug 26 2020 Aug 27 2020 Aug 27 2020 Aug 28 2020 Aug 29 2020 Aug 30 2020	6:31pm 7:34pm 10:43am 8:00pm 6:43am 5:52pm 4:03am 6:31am 3:55pm 8:11pm 5:41am 5:35pm 5:48am	31 27 26 21 13 28 9 9 15 11 5 25 6	WT Deer WT Deer WT Deer WT Deer WT Deer Black-capped Chickadee WT Deer	Male Female and fawn Male Female and fawn Female Unknown  Female Female Male Female Male Female Female Male Female	1 2 1 1 1 1 1 2 3 3 1 1 1 4	
10_15- 2020	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020 Aug 25, 2020 Aug 25, 2020 Aug 26 2020 Aug 26 2020 Aug 27 2020 Aug 27 2020 Aug 28 2020 Aug 29 2020 Aug 30 2020 Aug 30 2020 Aug 2020	6:31pm 7:34pm 10:43am 8:00pm 6:43am 5:52pm 4:03am 6:31am 3:55pm 8:11pm 5:41am 5:35pm 5:48am 5:09pm	31 27 26 21 13 28 9 9 9 15 11 5 25 6	WT Deer WT Deer WT Deer WT Deer WT Deer Black-capped Chickadee WT Deer	Male Female and fawn Male Female and fawn Female Unknown Female Female Male Female Male Female	1 2 1 1 1 1 1 2 3 3 1 1 1 4 2 2 2	
10_15- 2020	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020 Aug 25, 2020 Aug 25, 2020 Aug 26 2020 Aug 26 2020 Aug 27 2020 Aug 27 2020 Aug 28 2020 Aug 29 2020 Aug 30 2020 Aug 30 2020	6:31pm 7:34pm 10:43am 8:00pm 6:43am 5:52pm 4:03am 6:31am 3:55pm 8:11pm 5:41am 5:35pm 5:48am	31 27 26 21 13 28 9 9 9 15 11 5 25 6	WT Deer WT Deer WT Deer WT Deer WT Deer Black-capped Chickadee WT Deer	Male Female and fawn Male Female and fawn Female and fawn Female Unknown  Female Female Male Female Male Female	1 2 1 2 1 1 1 1 2 3 3 1 1 1 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Comments
10_15- 2020	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020 Aug 25, 2020 Aug 25, 2020 Aug 26 2020 Aug 26 2020 Aug 27 2020 Aug 27 2020 Aug 28 2020 Aug 29 2020 Aug 30 2020 Aug 30 2020 Aug 30 2020 Aug 2020	6:31pm 7:34pm 10:43am 8:00pm 6:43am 5:52pm 4:03am 6:31am 3:55pm 8:11pm 5:41am 5:35pm 5:48am 5:09pm 3:10am	31 27 26 21 13 28 9 9 15 11 5 25 6 19 6 Temperature (°C)	WT Deer WT Deer WT Deer WT Deer WT Deer Black-capped Chickadee WT Deer	Male Female and fawn Male Female and fawn Female and fawn Female Unknown  Female Female Male Female Male Females and male Female and fawn Female and fawn Female Female	1 2 1 2 1 1 1 1 1 2 3 3 1 1 1 4 4 2 2 2 2 Decies Number	Comments
10_15- 2020	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020 Aug 25, 2020 Aug 25, 2020 Aug 26 2020 Aug 26 2020 Aug 27 2020 Aug 27 2020 Aug 28 2020 Aug 29 2020 Aug 30 2020 Aug 30 2020  Aug 2020  Date  Sept 2 2020	6:31pm 7:34pm 10:43am 8:00pm 6:43am 5:52pm 4:03am 6:31am 3:55pm 8:11pm 5:41am 5:35pm 5:48am 5:09pm 3:10am	31 27 26 21 13 28 9 9 15 11 5 25 6 19 6 Temperature (°C)	WT Deer WT Deer WT Deer WT Deer WT Deer Black-capped Chickadee WT Deer	Male Female and fawn Male Female and fawn Female and fawn Female Unknown  Female Female Male Female Male Females and male Female and fawn Female Signature Female Male Female Signature Female	1 2 1 2 1 1 1 1 1 2 3 3 1 1 1 4 2 2 2 2 Decies Number 2	Comments
10_15- 2020	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020 Aug 25, 2020 Aug 25, 2020 Aug 26 2020 Aug 26 2020 Aug 27 2020 Aug 27 2020 Aug 28 2020 Aug 29 2020 Aug 30 2020 Aug 30 2020  Aug 2020  Date  Sept 2 2020 Sept 2 2020	6:31pm 7:34pm 10:43am 8:00pm 6:43am 5:52pm 4:03am 6:31am 3:55pm 8:11pm 5:41am 5:35pm 5:48am 5:09pm 3:10am Time 8:57am 7:04pm	31 27 26 21 13 28 9 9 15 11 5 25 6 19 6 Temperature (°C) 9 16	WT Deer WT Deer WT Deer WT Deer WT Deer Black-capped Chickadee WT Deer	Male Female and fawn Male Female and fawn Female and fawn Female Unknown Female Female Male Female Female Male Females and male Female and fawn Female and fawn Female Male Female and fawn Female Male	1 2 1 2 1 1 1 1 1 2 3 3 1 1 1 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1	Comments
10_15- 2020	Aug 19 2020 Aug 20 2020 Aug 21 2020 Aug 21 2020 Aug 25, 2020 Aug 25, 2020 Aug 26 2020 Aug 26 2020 Aug 27 2020 Aug 27 2020 Aug 28 2020 Aug 29 2020 Aug 30 2020 Aug 30 2020  Date  Sept 2 2020 Sept 3 2020 Sept 3 2020	6:31pm 7:34pm 10:43am 8:00pm 6:43am 5:52pm 4:03am 6:31am 3:55pm 8:11pm 5:41am 5:35pm 5:48am 5:09pm 3:10am Time 8:57am 7:04pm 5:26am	31 27 26 21 13 28 9 9 15 11 5 25 6 19 6 Temperature (°C) 9 16 5	WT Deer WT Deer WT Deer WT Deer WT Deer Black-capped Chickadee WT Deer	Male Female and fawn Male Female and fawn Female and fawn Female Unknown Female Female Male Female Male Female and fawn Females and male Female and fawn Female Male Female Female Female Female Female fawn Female Female Female	1 2 1 2 1 1 1 1 1 2 3 3 1 1 1 4 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1	Comments
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Mar 5 2021   3:11pm   12   Magpie   Unknown   1     Mar 13 2021   6:37pm   2   Magpie   Unknown   1     Mar 16 2021   11:21am   0   Magpie   Unknown   1     Apr 5 2021   5:00pm   18   Magpie   Unknown   1     Plot	Plot 4 5_18-21	Oct 7 2020  Date  Oct 10 2020  Oct 11 2020  Oct 11 2020  Oct 13 2020  Oct 29 2020  Nov 13 2020  Nov 23 2020  Nov 28 2020	4:44pm Time 6:40am 5:05pm 6:44pm 7:09am 3:15pm 4:55am 2:32pm 4:09pm 4:44pm	22 Temperatu re (°C)  1 9 7 0 5 -22 -2 -3 -4	Type WT Deer WT Deer WT Deer WT Deer WT Deer Magpie WT Deer Magpie Magpie Magpie	Male Male Male Male Sp Gender Male Male Female Female Unknown Male Unknown Unknown	1 Decies Number 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Comments
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June 11 2021         5:13am         15         WT Deer         Female           June 14 2021         2:53am         13         WT Deer         Female	Plot 4 5_18-21 (100)  Plot 4 6_14 21  Plot 4	Oct 7 2020  Date  Oct 10 2020 Oct 11 2020 Oct 11 2020 Oct 13 2020 Oct 13 2020 Nov 13 2020 Nov 23 2020 Nov 28 2020 Dec 7 2020 Feb 10 2021 Mar 1 2021 Mar 15 2021 Mar 16 2021 Apr 5 2021 Apr 23 June 1 2021 June 11 2021 June 6 2021	4:44pm Time 6:40am 5:05pm 6:44pm 7:09am 3:15pm 4:55am 2:32pm 4:09pm 1:15pm 3:11pm 6:37pm 11:21am 5:00pm 11:26am 9:45pm 12:30pm 12:49pm 6:20am 8:38am 1:55pm 7:45pm	22 Temperature (°C)  1 9 7 0 5 -22 -2 -3 -4 -25 3 112 2 0 18 20 17 18 22 10 13 14	WT Deer  Type WT Deer WT Deer WT Deer WT Deer WT Deer Magpie WT Deer Magpie WT Deer	Male Male Male Male Male Male Male Male	1 Decies Number 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Comments
June 14 2021 2:53am 13 WT Deer Female	Plot 4 5_18-21 (100)  Plot 4 6_14 21  Plot 4	Oct 7 2020  Date  Oct 10 2020 Oct 11 2020 Oct 11 2020 Oct 13 2020 Oct 13 2020 Nov 13 2020 Nov 23 2020 Nov 28 2020 Dec 7 2020 Feb 10 2021 Mar 1 2021 Mar 15 2021 Mar 16 2021 Apr 5 2021 Apr 23 June 1 2021 June 11 2021 June 6 2021 June 8 2021	4:44pm Time 6:40am 5:05pm 6:44pm 7:09am 3:15pm 4:55am 2:32pm 4:09pm 4:44pm 1:00pm 1:15pm 3:11pm 6:37pm 11:21am 5:00pm 11:26am 9:45pm 12:30pm 12:49pm 6:20am 8:38am 1:55pm 7:45pm 9:53pm	22 Temperature (°C)  1 9 7 0 5 -22 -2 -3 -4 -25 3 12 2 0 18 20 17 18 22 10 13 14 17	WT Deer  Type WT Deer WT Deer WT Deer WT Deer WT Deer Magpie Wagpie Magpie WT Deer	Male Male Male Male Male Male Male Male	1 Decies Number 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Comments
	Plot 4 5_18-21 (100)  Plot 4 6_14 21  Plot 4	Oct 7 2020  Date  Oct 10 2020 Oct 11 2020 Oct 11 2020 Oct 13 2020 Oct 13 2020 Oct 29 2020 Nov 13 2020 Nov 23 2020 Nov 28 2020 Dec 7 2020 Feb 10 2021 Mar 1 2021 Mar 5 2021 Mar 15 2021 Apr 5 2021 Apr 5 2021 June 1 2021 June 1 2021 June 6 2021 June 6 2021 June 6 2021 June 6 2021 June 8 2021 June 8 2021 June 8 2021 June 10 2021	4:44pm Time 6:40am 5:05pm 6:44pm 7:09am 3:15pm 4:55am 2:32pm 4:09pm 4:44pm 1:00pm 1:15pm 3:11pm 6:37pm 11:21am 5:00pm 11:26am 9:45pm 12:30pm 12:49pm 6:20am 8:38am 1:55pm 7:45pm 9:53pm 2:30pm	22     Temperature (°C)     1     9     7     0     5     -22     -2     -3     -4     -25     3     12     2     0     18     20     17     18     22     10     13     14     17     15     23	WT Deer  Type WT Deer WT Deer WT Deer WT Deer Magpie WT Deer Magpie WT Deer	Male Male Male Male Male Male Male Male	1 Decies Number 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Comments
I I June 17 2021   2:49am   8     Deer     Female     1	Plot 4 5_18-21 (100)  Plot 4 6_14 21  Plot 4	Oct 7 2020  Date  Oct 10 2020 Oct 11 2020 Oct 11 2020 Oct 13 2020 Oct 13 2020 Oct 29 2020 Nov 13 2020 Nov 23 2020 Nov 28 2020 Dec 7 2020 Feb 10 2021 Mar 1 2021 Mar 5 2021 Mar 13 2021 Mar 16 2021 Apr 5 2021 Apr 5 2021 June 1 2021 June 6 2021 June 8 2021 June 8 2021 June 10 2021 June 10 2021 June 10 2021 June 11 2021 June 8 2021 June 10 2021 June 11 2021 June 10 2021 June 11 2021	4:44pm Time 6:40am 5:05pm 6:44pm 7:09am 3:15pm 4:55am 2:32pm 4:09pm 4:44pm 1:00pm 1:15pm 3:11pm 6:37pm 11:21am 5:00pm 11:26am 9:45pm 12:30pm 12:49pm 6:20am 8:38am 1:55pm 7:45pm 9:53pm 2:30pm 5:13am	22 Temperature (°C)  1 9 7 0 5 -22 -2 -3 -4 -25 3 12 2 0 18 20 17 18 22 10 13 14 17 15 23 15	Type WT Deer WT Deer WT Deer WT Deer WT Deer Magpie WT Deer Magpie WT Deer	Male Male Male Male Male Male Male Male	1 Decies Number 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Comments
	Plot 4 5_18-21 (100)  Plot 4 6_14 21  Plot 4	Oct 7 2020  Date  Oct 10 2020 Oct 11 2020 Oct 11 2020 Oct 13 2020 Oct 29 2020 Nov 13 2020 Nov 23 2020 Nov 28 2020 Dec 7 2020 Feb 10 2021 Mar 1 2021 Mar 1 2021 Mar 16 2021 Apr 5 2021 Apr 23 June 1 2021 June 6 2021 June 6 2021 June 6 2021 June 6 2021 June 8 2021 June 10 2021 June 11 2021 June 10 2021 June 11 2021	4:44pm Time 6:40am 5:05pm 6:44pm 7:09am 3:15pm 4:55am 2:32pm 4:09pm 4:44pm 1:00pm 1:15pm 3:11pm 6:37pm 11:21am 5:00pm 11:26am 9:45pm 12:30pm 12:49pm 6:20am 8:38am 1:55pm 7:45pm 9:53pm 2:30pm 5:13am 2:53am	22 Temperature (°C)  1 9 7 0 5 -22 -2 -3 -4 -25 3 12 2 0 18 20 17 18 22 10 13 14 17 15 23 15 13	Type WT Deer WT Deer WT Deer WT Deer WT Deer Magpie WT Deer Magpie WT Deer	Male Male Male Male Male Male Male Male	1 Decies Number 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Comments
June 17 2021         8:56am         28         Mule Deer         Female         1	Plot 4 5_18-21 (100)  Plot 4 6_14 21  Plot 4	Oct 7 2020  Date  Oct 10 2020 Oct 11 2020 Oct 11 2020 Oct 13 2020 Oct 13 2020 Oct 29 2020 Nov 13 2020 Nov 28 2020 Nov 28 2020 Dec 7 2020 Feb 10 2021 Mar 1 2021 Mar 1 2021 Mar 16 2021 Apr 5 2021 Apr 5 2021 Apr 23 June 1 2021 June 11 2021 June 6 2021 June 8 2021 June 8 2021 June 10 2021 June 11 2021 June 11 2021 June 11 2021 June 10 2021 June 11 2021	4:44pm Time 6:40am 5:05pm 6:44pm 7:09am 3:15pm 4:55am 2:32pm 4:09pm 4:44pm 1:00pm 1:15pm 3:11pm 6:37pm 11:21am 5:00pm 11:26am 9:45pm 12:30pm 12:49pm 6:20am 8:38am 1:55pm 7:45pm 9:53pm 2:30pm 5:13am 2:53am 2:49am	22 Temperature (°C)  1 9 7 0 5 -22 -2 -3 -4 -25 3 12 2 0 18 20 17 18 22 10 13 14 17 15 23 15 13 8	WT Deer  Type WT Deer WT Deer WT Deer WT Deer WT Deer Magpie WT Deer Magpie WT Deer	Male Male Male Male Male Male Male Male	1 Decies Number 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Comments



	June 17 2021	8:15 pm	19	WT Deer	Female	1	
	June 19 2021	4:34pm	23	WT Deer	Female	1	
	June 20 2021	6:24am	12	WT Deer	Male	1	
Plot 4	May 23 2021	11:26am	20	Magpie	Unknown	1	
9_21 21	June 11 2021	12:30	18	Deer	Female	2	
Plot 5	April 9 2021	5:51am	-9	Coyote	Unknown	1	
5/18	,						
100							
101	Oct 18 2020	2:04am	-7	WT Deer	Female	1	
Camera	Date	Time	Temperatu		Sp	pecies	
ID			re (°C)	Туре	Gender	Number	Comments
	Oct 18 2020	5:31am	-7	Weasel?	Unknown	1	
	Oct 21 2020	11:33pm	-6	WT Deer	Female	1	
	Oct 24 2020	8:43pm	-9	Red Fox	Unknown	1	
	Oct 25 2020	8:34am	-9	Red Fox	Unknown	1	
	Oct 26 2020	11:07am	-5	WT Deer	Female	1	
	Oct 26 2020	5:55pm	-4	WT Deer	Female	1	
	Oct 27 2020	6:19pm	5	WT Deer	Female	1	
	Oct 27 2020	8:18pm	2	WT Deer	Female	4	
	Oct 30 2020	7:24pm	1	Fox?	Unknown	1	
	Apr 10 2020	1:31pm	16	Red Fox	Unknown	1	
	Nov 2 2020	7:26pm	3	WT Deer	Female	2	
	Nov 3 2020	11:27	6	WT Deer	Unknown	1	Unknown, shot of hindquarters
	Nov 3 2020	11:13pm	0	WT Deer	Male	1	
	Nov 5 2020	4:54am	-1	WT Deer	Female	2	
	Nov 5 2020	2:44pm	2	Red Fox	Unknown	1	
	Nov 6 2020	5:43pm	0	Red Fox	Unknown	1	
	Nov 7 2020	7:19am	-2	Red Fox	Unknown	1	
	Nov 7 2020	9:35pm	-4	WT Deer	Male	1	
	Nov 12 2020	8:44pm	-17	Red Fox	Unknown	1	
	Nov 13 2020	4:47am	-17	WT Deer	Male	1	
	Nov 20 2020	6:32pm	-16	Red Fox	Unknown	1	
	Nov 26 2020	12:19am	-11	Red Fox	Unknown	1	
	Nov 29 2020	9:04pm	-11	Red Fox	Unknown	1	
	Dec 3 2020	10:40am	-10	Magpie	Unknown	1	
	Dec 5 2020	9:36am	-11	Magpie	Unknown	1	
	Feb 1 2021	8:58pm	-14	Porcupine	Unknown	1	
	Feb 2 2021	9:47pm	-11	Red Fox	Unknown	1	
	Feb 4 2021	11:17am	-16	Red Fox	Unknown	1	
	Feb 11 2021	3:54pm	-27	Red Fox	Unknown	1	
	Feb 20 2021	2:23am	-12	Red Fox	Unknown	1	
	Mar 9 2021	12:20am	-5	Snowshoe Hare	Unknown	1	
	Mar 11 2021	10:43pm	-14	Red Fox	Unknown	1	
	Mar 12 2021	6:29am	-16	Red Fox	Unknown	1	
	Mar 16 2021	10:42	-3	Red Fox	Unknown	1	
	Mar 28 2021	4:18am	-1	Red Fox	Unknown	1	
	Mar 30 2021	8:38pm	-15	Coyote	Unknown	1	



## Series B-IV: External Report References

This section contains table summaries of relevant external report reference materials that support various discussion points in the baseline inventory report.

## **Meewasin-Affiliated Relevant Maple Grove Background Documents**

The following table contains a summary of Meewasin-affiliated background documents and studies cited within the contents of this report which reference the Maple Grove and Yorath Island properties.

Table B-IV 1. Summary of Meewasin-affiliated background studies relevant to the Maple Grove site region.

Study Title	Year	Credited Author(s)	Document's Purpose & Major Findings (Related to Maple Grove)
The Meewasin Valley Project	1978	Raymond Moriyama Architects and Planners	Purpose: 100 year conceptual master plan of the South Saskatchewan River Environment in the Rural Municipality of Corman Park and the City of Saskatoon.  Yorath Island and Maple Grove identified as significant areas – highlighted for ecology and situated within the 'Sand Dune and Islands Node'.
Yorath Island Working Paper	1980	Meewasin	Purpose: initiate a discussion on the potential use and development of the area.  The study suggests facilities for picnicking and day camping, an interpretive centre, overnight camping areas, and support facilities at Maple Grove. The document suggests developing a link from Maple Grove to Yorath Island and the implementation of various nature trails for low-impact exploration. (See Appendix C for proposal map).
Meewasin Valley Archaeological Resource Management Project	1987	Ernest G. Walker, David L. Kelly, & Richard Gorre (USask)	Purpose: document all known archaeological resources in and around the Meewasin Valley.  Establish a regional archaeological resource database with an associated model for assessing heritage potential given specific environmental parameters.  Archaeological assessment and findings documented for the Maple Grove property and surrounding area have been summarized in Section 2.1.
Meewasin Valley Trail System Plan	1990	HILDERMAN WITTY CROSBY HANNA & ASSOCIATES Landscape Architects and Planners	Purpose: summarize evaluation of existing Meewasin trail system, define an ideal model trail system for Meewasin, and propose guidelines and recommendations for future area planning. The Trail System Plan proposes a new major entry in the vicinity of Yorath Island at the terminus of a proposed southerly extension of the primary trail. The entry would include parking, washrooms / shelter, bicycle racks, drinking fountain, picnicking areas and trail information.
West Bank Development South Study: Strategic Concept Development Plan	1992	UMA Engineering Ltd.	Purpose: identification of constraints, opportunities, and fundamental principles associated with the southwest bank region of the South Saskatchewan River within the Meewasin Valley Authority area.  The study highlights opportunities for recreation and interpretation activities on Yorath Island and the adjacent west bank mainland. Various river channel-crossing structures are noted as potential construction options for facilitating access onto Yorath Island from the west bank mainland area.
Complete Summary Appraisal of Leisureland	1996	Johnson Appraisals LTD.	Purpose: provide unbiased estimate of market value for the subject Maple Grove property.



Property in the			Assessment and inventory of land parcel, buildings, and improvements on site area. Includes
Rural Municipality			details on the condition of amenities found at the site at time of survey and ascribes associated
of Corman Park			cost value estimates.
#344 Province of			
Saskatchewan			
Vegetation and Wildlife Survey of Maple Grove and Yorath Island	2000	Luc Delanoy (Meewasin)	Purpose: provide quantitative inventory on vegetation and qualitative information of the general ecology for Maple Grove and Yorath Island.  Detailed vegetation inventories associated with this study have been used to inform this baseline inventory. Data from this report has been mapped and discussed in Section 4.4.
Environmental Site Assessment: Leisure Land Sewage Lagoon	2002	AMEC Earth & Environmental Limited	Purpose: environmental site assessment of the existing 'Sewage Lagoon' at the Leisureland Trailer Court, authorized by Meewasin on July 29, 2002. Report to describe subsurface soil profile and groundwater conditions with respect to risks associated with operating the lagoon.  Test holes drilled at locations surrounding the sewage waste disposal area to determine soil conditions and groundwater level. Monitors installed for long-term groundwater monitoring and samples sent for laboratory analysis to determine constituents in the water that may indicate
Near Saskatoon, Saskatchewan			impacts from the lagoon. Based on available data, the report deemed level of impact from the lagoon to be negligible. Findings suggest small horizontal hydraulic gradients, presence of groundwater recharge and radial flow patterns in immediate lagoon facility. Report noted that the lagoon may have impacted the quality of groundwater in the shallow sand horizon. (See Appendix B Figure 4 for 'Sewage Lagoon' location map).
			Purpose: Final project report associated with University of Saskatchewan's Environmental Science 992 course offered in the School of Environment and Sustainability's Master of Sustainable Environmental Management program. Conducted under faculty advisory Dr. Vladimir Kricsfalusy.
Low Input Food Forest Design and Case Study	2021	Lynnae Ylioja (University of Saskatchewan, Master of Sustainable Environmental Management Program)	Report explores the possibilities and logistics associated with the potential implementation of a low-input food forest design. The remnant hayfields at the Maple Grove site are used as a hypothetical case study location for a food forest design with in the report. Various field work and desktop surveying was conducted in associated with the Maple Grove site and the southwest hayfield location for this project. On-site Maple Grove field work activities included forest health assessment, forest vegetation inventory, soil sampling and soil pit classification. A set of recommended design considerations and management activities for food forest implementation was submitted through the project report. (See Appendix B Figures 5 & 6 for Maple grove hayfield CSSC soil pit classification field work data).



## Maple Grove Land Cover Vegetation Type Comparative Analysis Full Results

The following table contains the full results from the comparative land cover vegetation type data analysis described in section 4.4 of the report. This table contains data from the 2014-2018 Meewasin State of the Valley Report Land Cover Land Use Classification (Hooey, 2021) and the comprehensive 2000 Meewasin Wildlife and Vegetation Inventory Survey conducted at Maple Grove and Yorath Island (Delanoy, 2000). Information from these respective datasets has been dissolved to the boundaries of the Maple Grove mainland site area.

Table B-IV 2. Maple Grove Land Cover Changes identified between 2000 Vegetation Type (Delanoy, 2000) and the 2018 State of the Valley

Land Use Land Cover Classifications (Hooey, 2021)	Land	Use	Land	Cover	Classifications	(Hooey,	2021	)_
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2000 Maple Grove Vegetation Community	The state of the s	,	ver Classifications (Hoo	pey, 2021)			Land Cove Change	
Classification Type (Delanoy, 2000)	2018 Category	2018 Sub1	2018 Sub2	2018 Sub3	2018 Sub4	2018 Sub5	Area (ha)	Area (ac)
Brome/Alfalfa	Not Classed						0.06	0.15
Not Classed	Built	Exposed & Barren	Informal Road & Trail				0.05	0.13
Ash-Upland Shrub	Built	Exposed & Barren	Informal Road & Trail				0.01	0.03
Ash/Maple-No Shrub	Built	Exposed & Barren	Informal Road & Trail				0.00	0.01
Ash/Maple-Upland Shrub	Built	Exposed & Barren	Informal Road & Trail				0.00	0.00
Ash/Yellow Willow-Floodplain Shrub	Built	Exposed & Barren	Informal Road & Trail				0.09	0.22
Balsam Poplar/Ash/Maple-No Shrub	Built	Exposed & Barren	Informal Road & Trail				0.00	0.00
Balsam Poplar/Ash/Maple- Upland Shrub	Built	Exposed & Barren	Informal Road & Trail				0.02	0.05
Exotic Grass	Built	Exposed & Barren	Informal Road & Trail				0.05	0.12
Not Classed	Built Environment	Road & Rail					0.44	1.09
Ash-Upland Shrub	Built Environment	Road & Rail					0.00	0.00
Ash/Maple-No Shrub	Built Environment	Road & Rail					0.00	0.00
Ash/Maple-Upland Shrub	Built Environment	Road & Rail					0.03	0.07
Ash/Maple/Yellow Willow- Floodplain Shrub and Exotic?	Built Environment	Road & Rail					0.00	0.01
Brome/Alfalfa	Built Environment	Road & Rail					0.01	0.03
Exotic Grass	Built Environment	Road & Rail					0.04	0.09
Snowberry	Built Environment	Road & Rail					0.00	0.01
Not Classed	Built Environment	Urban & Rural Development					0.70	1.73
Ash/Maple-No Shrub	Built Environment	Urban & Rural Development					0.25	0.62



Ash/Yellow Willow-Floodplain		Urban & Rural		T T		
Shrub	Built Environment	Development			0.01	0.02
Balsam Poplar-Floodplain	Built Environment	Urban & Rural				
Shrub Balsam Poplar/Ash-Floodplain		Development Urban & Rural			0.02	0.05
Shrub	Built Environment	Development			0.15	0.36
Balsam Poplar/Ash-Upland	B " F	Urban & Rural			0.10	0.00
Shrub	Built Environment	Development			0.03	0.06
Balsam Poplar/Ash/Maple-No	Built Environment	Urban & Rural				
Shrub	Bailt Environment	Development			0.60	1.49
Balsam Poplar/Ash/Maple- Upland Shrub	Built Environment	Urban & Rural Development			0.02	0.06
		Urban & Rural			0.02	0.00
Cottonwood-Floodplain Shrub	Built Environment	Development			0.06	0.15
River Birch/Willow	Built Environment	Urban & Rural				
River Bileti/Willow	Built Environment	Development			0.08	0.19
Ash-Upland Shrub	Ecological Environment	Green Space	Informal Green Space	Verge	0.00	0.00
Exotic Grass	Ecological Environment	Green Space	Informal Green Space	Verge	0.00	0.00
Snowberry	Ecological Environment	Green Space	Informal Green Space	Verge	0.00	0.00
Not Classed	Ecological Environment	Native & Naturalized Environment	Aquatic Systems	River	0.00	0.01
Ash/Yellow Willow-Floodplain Shrub	Ecological Environment	Native & Naturalized Environment	Aquatic Systems	River	0.12	0.30
Floodplain Shrub	Ecological Environment	Native & Naturalized Environment	Aquatic Systems	River	0.00	0.00
River Birch/Willow	Ecological Environment	Native & Naturalized Environment	Aquatic Systems	River	0.01	0.02
Sandbar Willow	Ecological Environment	Native & Naturalized Environment	Aquatic Systems	River	0.00	0.00
Yellow Willow/Floodplain Shrub	Ecological Environment	Native & Naturalized Environment	Aquatic Systems	River	0.00	0.01
Not Classed	Ecological Environment	Native & Naturalized Environment	Forested & Shrubland Systems	Native & Naturalized	0.68	1.67
Ash-Upland Shrub	Ecological Environment	Native & Naturalized Environment	Forested & Shrubland Systems	Native & Naturalized	0.90	2.24
Ash-Upland Shrub/Buckthorn	Ecological Environment	Native & Naturalized Environment	Forested & Shrubland Systems	Native & Naturalized	0.12	0.30
Ash/Aspen-Mixed Shrub	Ecological Environment	Native & Naturalized Environment	Forested & Shrubland Systems	Native & Naturalized	0.12	0.30
Ash/Maple-No Shrub	Ecological Environment	Native & Naturalized Environment	Forested & Shrubland Systems	Native & Naturalized	1.28	3.16
Ash/Maple-Upland Shrub	Ecological Environment	Native & Naturalized Environment	Forested & Shrubland Systems	Native & Naturalized	1.77	4.38
Ash/Maple/Yellow Willow-	Ecological Environment	Native & Naturalized	Forested & Shrubland	Native &		
Floodplain Shrub and Exotic?		Environment	Systems	Naturalized	0.01	0.02
Ash/Upland Shrub-Exotic Grass	Ecological Environment	Native & Naturalized	Forested & Shrubland	Native &	0.05	0.12
Ash/Upland Shrub-Exotic Grass	Ecological Environment	Native & Naturalized Environment	Systems	Native & Naturalized	0.05	С



Ash/Yellow Willow-Floodplain	Ecological Environment	Native & Naturalized	Forested & Shrubland	Native &		
Shrub		Environment	Systems	Naturalized	2.21	5.46
Aspen-Upland Shrub	Ecological Environment	Native & Naturalized	Forested & Shrubland	Native &		
	Eddiogradi Environment	Environment	Systems	Naturalized	0.07	0.18
Balsam Poplar-Floodplain	Ecological Environment	Native & Naturalized	Forested & Shrubland	Native &		
Shrub	Eddiogloai Environment	Environment	Systems	Naturalized	0.33	0.81
Balsam Poplar/Ash-Floodplain	Ecological Environment	Native & Naturalized	Forested & Shrubland	Native &		
Shrub	Ecological Environment	Environment	Systems	Naturalized	0.37	0.90
Balsam Poplar/Ash-Upland	Ecological Environment	Native & Naturalized	Forested & Shrubland	Native &		
Shrub	Ecological Environment	Environment	Systems	Naturalized	0.41	1.00
Balsam Poplar/Ash/Maple-No	Ecological Environment	Native & Naturalized	Forested & Shrubland	Native &		
Shrub	Ecological Environment	Environment	Systems	Naturalized	0.47	1.15
Balsam Poplar/Ash/Maple-	Facility is all Facility and a second	Native & Naturalized	Forested & Shrubland	Native &		
Upland Shrub	Ecological Environment	Environment	Systems	Naturalized	0.45	1.12
•		Native & Naturalized	Forested & Shrubland	Native &		
Brome/Alfalfa	Ecological Environment	Environment	Systems	Naturalized	0.10	0.25
		Native & Naturalized	Forested & Shrubland	Native &	00	0.20
Chokecherry/Saskatoon	Ecological Environment	Environment	Systems	Naturalized	0.11	0.28
Chokecherry/Saskatoon-Exotic		Native & Naturalized	Forested & Shrubland	Native &	0.11	0.20
Herb	Ecological Environment	Environment	Systems	Naturalized	0.04	0.10
		Native & Naturalized	Forested & Shrubland	Native &	0.04	0.10
Cottonwood-Floodplain Shrub	Ecological Environment	Environment	Systems	Naturalized	0.23	0.57
	Ecological Environment	Native & Naturalized	Forested & Shrubland	Native &	0.23	0.57
Cottonwood-No Shrub		Environment	Systems	Naturalized	0.02	0.05
	_	Native & Naturalized	Forested & Shrubland	Native &	0.02	0.03
Dogwood/Other Shrub	Ecological Environment	Environment		Naturalized	0.09	0.22
			Systems Forested & Shrubland	Native &	0.09	0.22
Exotic Grass	Ecological Environment	Native & Naturalized		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		4.00
	-	Environment	Systems	Naturalized	0.42	1.03
Floodplain Shrub	Ecological Environment	Native & Naturalized	Forested & Shrubland	Native &		
		Environment	Systems	Naturalized	0.35	0.87
Pond	Ecological Environment	Native & Naturalized	Forested & Shrubland	Native &		
		Environment	Systems	Naturalized	0.00	0.00
River Birch/Willow	Ecological Environment	Native & Naturalized	Forested & Shrubland	Native &		
TAVEL BILOTI, WILLOW	Ecological Environment	Environment	Systems	Naturalized	0.62	1.52
Sandbar Willow	Ecological Environment	Native & Naturalized	Forested & Shrubland	Native &		
Gariabai Willow	Ecological Environment	Environment	Systems	Naturalized	0.12	0.30
Sedge Meadow	Ecological Environment	Native & Naturalized	Forested & Shrubland	Native &		
Sedge Meadow	Ecological Environment	Environment	Systems	Naturalized	0.02	0.04
Cacularin	Faciaciani Environment	Native & Naturalized	Forested & Shrubland	Native &		
Snowberry	Ecological Environment	Environment	Systems	Naturalized	0.00	0.01
On and a series Francis a Constant	Factoriant Factorian	Native & Naturalized	Forested & Shrubland	Native &		
Snowberry-Exotic Grass	Ecological Environment	Environment	Systems	Naturalized	0.06	0.16
0 1 5		Native & Naturalized	Forested & Shrubland	Native &		
Snowberry-Exotic Herb	Ecological Environment	Environment	Systems	Naturalized	0.04	0.10
		Native & Naturalized	Forested & Shrubland	Native &	0.01	30
Snowberry/Rose	Ecological Environment	Environment	Systems	Naturalized	0.01	0.02
•			- CYSICIIIS	i tatulalizoa	0.01	0.02
Snowberry/Upland Shrub	Ecological Environment	Native & Naturalized	Forested & Shrubland	Native &		



			T =	T			1 1	
Upland Shrub	Ecological Environment	Native & Naturalized	Forested & Shrubland	Native &			0.40	0.00
	<u> </u>	Environment	Systems	Naturalized			0.13	0.32
Yellow Willow/Floodplain Shrub	Ecological Environment	Native & Naturalized	Forested & Shrubland	Native &			4.04	2.05
<u>'</u>	<u> </u>	Environment	Systems	Naturalized			1.24	3.05
Not Classed	Ecological Environment	Native & Naturalized Environment	Grassland Systems	Naturalized Grass			0.18	0.44
		Native & Naturalized	-	Naturalized			0.16	0.44
Ash-Upland Shrub	Ecological Environment	Environment	Grassland Systems	Grass			0.01	0.03
	_	Native & Naturalized	+	Naturalized			0.01	0.03
Ash/Maple-No Shrub	Ecological Environment	Environment	Grassland Systems	Grass			0.05	0.11
		Native & Naturalized		Naturalized			0.03	0.11
Ash/Maple-Upland Shrub	Ecological Environment	Environment	Grassland Systems	Grass			0.03	0.08
Ash/Yellow Willow-Floodplain		Native & Naturalized		Naturalized			0.03	0.00
Shrub	Ecological Environment	Environment	Grassland Systems	Grass			0.00	0.01
		Native & Naturalized		Naturalized			0.00	0.01
Brome/Alfalfa	Ecological Environment	Environment	Grassland Systems	Grass			0.10	0.25
		Native & Naturalized		Naturalized		<b>†</b>	0.10	0.20
Chokecherry/Saskatoon	Ecological Environment	Environment	Grassland Systems	Grass			0.00	0.00
		Native & Naturalized		Naturalized			0.00	0.00
Cottonwood-Floodplain Shrub	Ecological Environment	Environment	Grassland Systems	Grass			0.05	0.14
		Native & Naturalized	1	Naturalized			0.00	<u> </u>
Exotic Grass	Ecological Environment	Environment	Grassland Systems	Grass			0.06	0.16
		Native & Naturalized	1	Naturalized			1	
Floodplain Shrub	Ecological Environment	Environment	Grassland Systems	Grass			0.00	0.01
<b>.</b>		Native & Naturalized	0 1 10 /	Naturalized				
Pond	Ecological Environment	Environment	Grassland Systems	Grass			0.01	0.02
Sandbar Willow	Ecological Environment	Native & Naturalized	Grassland Systems	Naturalized				
Sandbar Willow	Ecological Environment	Environment	Grassiand Systems	Grass			0.01	0.02
Snowberry-Exotic Grass	Ecological Environment	Native & Naturalized	Grassland Systems	Naturalized				
Showberry-Exolic Grass	Ecological Environment	Environment	Grassiand Systems	Grass			0.02	0.05
Snowberry-Exotic Herb	Ecological Environment	Native & Naturalized	Grassland Systems	Naturalized				
Showberry-Exotic Herb	Ecological Environment	Environment	Grassiand Systems	Grass			0.01	0.01
Snowberry/Rose	Ecological Environment	Native & Naturalized	Grassland Systems	Naturalized				
Silowberry/Rose	Ecological Environment	Environment	Grassiand Systems	Grass			0.02	0.05
Upland Shrub	Ecological Environment	Native & Naturalized	Grassland Systems	Naturalized				
Opiana Sinab	Ecological Environment	Environment	Olassiand Systems	Grass			0.00	0.00
Not Classed	Ecological Environment	Native & Naturalized	Grassland Systems	Naturalized	Agricultural	Old		
Not Glassed	Ecological Environment	Environment	Grassiana Gystems	Grass	Production	Field	0.00	0.01
Ash-Upland Shrub	Ecological Environment	Native & Naturalized	Grassland Systems	Naturalized	Agricultural	Old		
7.611 Opiana Omab	Eddiogloai Environment	Environment	Grassiana Gysterns	Grass	Production	Field	0.02	0.05
Ash/Maple-Upland Shrub	Ecological Environment	Native & Naturalized	Grassland Systems	Naturalized	Agricultural	Old		
		Environment	272000000000000000000000000000000000000	Grass	Production	Field	0.03	0.07
Balsam Poplar/Ash/Maple-	Ecological Environment	Native & Naturalized	Grassland Systems	Naturalized	Agricultural	Old		
Upland Shrub		Environment	272000000000000000000000000000000000000	Grass	Production	Field	0.05	0.12
Chokecherry/Saskatoon	Ecological Environment	Native & Naturalized	Grassland Systems	Naturalized	Agricultural	Old	0.55	0.00
,		Environment		Grass	Production	Field	0.00	0.00
Exotic Grass	Ecological Environment	Native & Naturalized	Grassland Systems	Naturalized	Agricultural	Old	0.45	0.00
	1 5	Environment		Grass	Production	Field	0.15	0.38



Snowberry/Rose	Ecological Environment	Native & Naturalized Environment	Grassland Systems	Naturalized Grass	Agricultural Production	Old Field	0.01	0.02
	<u> </u>	Native & Naturalized	-	Naturalized	Agricultural	Old	0.01	0.02
Snowberry/Upland Shrub	Ecological Environment	Environment	Grassland Systems	Grass	Production	Field	0.05	0.13
		Native & Naturalized	1	Naturalized	Agricultural	Old	0.00	0.10
Upland Shrub	Ecological Environment	Environment	Grassland Systems	Grass	Production	Field	0.02	0.05
Not Classed	Facilities   Facilities   Facilities	Native & Naturalized	Crossland Customs	Naturalized	Naturalized			
Not Classed	Ecological Environment	Environment	Grassland Systems	Grass	Green Space		0.16	0.39
Ash-Upland Shrub	Ecological Environment	Native & Naturalized	Grassland Systems	Naturalized	Naturalized			
Asir Opiana Oniab	Ecological Environment	Environment	Grassiana Gysterns	Grass	Green Space		0.01	0.02
Ash/Maple-No Shrub	Ecological Environment	Native & Naturalized	Grassland Systems	Naturalized	Naturalized			
		Environment		Grass	Green Space		0.01	0.03
Ash/Maple-Upland Shrub	Ecological Environment	Native & Naturalized	Grassland Systems	Naturalized	Naturalized		0.00	0.05
Ash/Maple/Yellow Willow-		Environment	<u> </u>	Grass Naturalized	Green Space		0.02	0.05
Floodplain Shrub and Exotic?	Ecological Environment	Native & Naturalized Environment	Grassland Systems	Grass	Naturalized Green Space		0.03	0.06
Floouplain Stilub and Exolic?		Native & Naturalized		Naturalized	Naturalized		0.03	0.06
Cottonwood-Floodplain Shrub	Ecological Environment	Environment	Grassland Systems	Grass	Green Space		0.02	0.05
		Native & Naturalized		Naturalized	Naturalized		0.02	0.00
Cottonwood-No Shrub	Ecological Environment	Environment	Grassland Systems	Grass	Green Space		0.02	0.06
D 1/0/1 01 1		Native & Naturalized	0 1 10 /	Naturalized	Naturalized			
Dogwood/Other Shrub	Ecological Environment	Environment	Grassland Systems	Grass	Green Space		0.05	0.12
Exotic Grass	Foological Fourteement	Native & Naturalized	Crossland Systems	Naturalized	Naturalized			
Exolic Grass	Ecological Environment	Environment	Grassland Systems	Grass	Green Space		0.34	0.83
River Birch/Willow	Ecological Environment	Native & Naturalized	Grassland Systems	Naturalized	Naturalized			
TAVEL BILGH/VVIIIOW	Ecological Environment	Environment	Grassiana Gysterns	Grass	Green Space		0.13	0.32
Sedge Meadow	Ecological Environment	Native & Naturalized	Grassland Systems	Naturalized	Naturalized			
- Coago moadon	Loological Environment	Environment	Graddiana Gydterne	Grass	Green Space		0.12	0.30
Snowberry	Ecological Environment	Native & Naturalized	Grassland Systems	Naturalized	Naturalized			
		Environment		Grass	Green Space		0.01	0.01
Yellow Willow/Floodplain Shrub	Ecological Environment	Native & Naturalized	Grassland Systems	Naturalized	Naturalized		0.40	0.04
· · · · · · · · · · · · · · · · · · ·		Environment Native & Naturalized		Grass Naturalized	Green Space Vegetated	Field	0.10	0.24
Not Classed	Ecological Environment	Environment	Grassland Systems	Grass	Margin	Edge	0.04	0.11
		Native & Naturalized		Naturalized	Vegetated	Field	0.04	0.11
Ash/Maple-Upland Shrub	Ecological Environment	Environment	Grassland Systems	Grass	Margin	Edge	0.03	0.07
		Native & Naturalized	1	Naturalized	Vegetated	Field	0.00	0.01
Brome/Alfalfa	Ecological Environment	Environment	Grassland Systems	Grass	Margin	Edge	0.09	0.22
Objects of several Objects on	Facility of a Line of the control of	Native & Naturalized	One selected One terror	Naturalized	Vegetated	Field		
Chokecherry/Saskatoon	Ecological Environment	Environment	Grassland Systems	Grass	Margin	Edge	0.00	0.01
Exotic Grass	Ecological Environment	Native & Naturalized	Grassland Systems	Naturalized	Vegetated	Field		
Exolic Glass	Ecological Environment	Environment	Grassianu Systems	Grass	Margin	Edge	0.02	0.05
Ash-Upland Shrub	Ecological Environment	Native & Naturalized	Grassland Systems	Tame Forage	Agricultural	Forage		
7.0.1 Opiana Onitab	2000gicai Environinent	Environment	Crassiana Cystoms	rame r drage	Production	Crop	0.00	0.01
Ash/Aspen-Mixed Shrub	Ecological Environment	Native & Naturalized	Grassland Systems	Tame Forage	Agricultural	Forage		
		Environment	2.200.0.10	. ao . a.ago	Production	Crop	0.00	0.00
Ash/Maple-Upland Shrub	Ecological Environment	Native & Naturalized	Grassland Systems	Tame Forage	Agricultural	Forage	0.00	0.00
- p p		Environment			Production	Crop	0.02	0.06



Aspen-Upland Shrub	Ecological Environment	Native & Naturalized Environment	Grassland Systems	Tame Forage	Agricultural Production	Forage Crop	0.03	0.07
Balsam Poplar/Ash/Maple- Upland Shrub	Ecological Environment	Native & Naturalized Environment	Grassland Systems	Tame Forage	Agricultural Production	Forage Crop	0.00	0.00
Brome/Alfalfa	Ecological Environment	Native & Naturalized Environment	Grassland Systems	Tame Forage	Agricultural Production	Forage Crop	2.10	5.19
Chokecherry/Saskatoon	Ecological Environment	Native & Naturalized Environment	Grassland Systems	Tame Forage	Agricultural Production	Forage Crop	0.01	0.03
Exotic Grass	Ecological Environment	Native & Naturalized Environment	Grassland Systems	Tame Forage	Agricultural Production	Forage Crop	2.38	5.87
Snowberry-Exotic Grass	Ecological Environment	Native & Naturalized Environment	Grassland Systems	Tame Forage	Agricultural Production	Forage Crop	0.01	0.02
Snowberry-Exotic Herb	Ecological Environment	Native & Naturalized Environment	Grassland Systems	Tame Forage	Agricultural Production	Forage Crop	0.00	0.00
Snowberry/Rose	Ecological Environment	Native & Naturalized Environment	Grassland Systems	Tame Forage	Agricultural Production	Forage Crop	0.01	0.02
Snowberry/Upland Shrub	Ecological Environment	Native & Naturalized Environment	Grassland Systems	Tame Forage	Agricultural Production	Forage Crop	0.03	0.07
Upland Shrub	Ecological Environment	Native & Naturalized Environment	Grassland Systems	Tame Forage	Agricultural Production	Forage Crop	0.00	0.00
Not Classed	Ecological Environment	Native & Naturalized Environment	Grassland Systems	Tame Forage	Vegetated Margin	Field Edge	0.01	0.02
Ash/Maple-Upland Shrub	Ecological Environment	Native & Naturalized Environment	Grassland Systems	Tame Forage	Vegetated Margin	Field Edge	0.01	0.03
Brome/Alfalfa	Ecological Environment	Native & Naturalized Environment	Grassland Systems	Tame Forage	Vegetated Margin	Field Edge	0.22	0.55
Snowberry/Rose	Ecological Environment	Native & Naturalized Environment	Grassland Systems	Tame Forage	Vegetated Margin	Field Edge	0.01	0.03
TOTALS					J		22.66	55.99

