

# Timeline/Estimate

2020		
Late Spring/Early Summer	Spot herbicide treatment/Spot mow of invasive/non natives	\$3,287
Mid/Late Summer	Spot herbicide treatment/Spot mow of invasive/non natives	\$3,287
Summer/Winter	Woody Removal	\$17,660
Fall	Foliar Spray of Invasives/non natives	\$3,286

2021		
Spring	Prescribed Burn (*Optional)	\$4,680
Spring	Spot Seeding and Planting	\$8,302
Late Spring/Early Summer	Spot herbicide treatment/Spot mow of invasive/non natives	\$3,286
Mid/Late Summer	Spot herbicide treatment/Spot mow of invasive/non natives	\$1,730
Fall	Foliar Spray of Invasives/non natives	\$3,286

2022		
Late Spring/Early Summer	Spot herbicide treatment/Spot mow of invasive/non natives	\$1,727
Mid/Late Summer	Spot herbicide treatment/Spot mow of invasive/non natives	\$1,726
Fall	Foliar Spray of Invasives/non natives	\$1,727

2023		
Spring	Spot herbicide treatment/Spot mow of invasive/non natives	\$3,370
Fall	Prescribed Burn (*Optional)	\$4,680

<b>Timeline Total</b>	<b>\$62,034</b>
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	Per/Ac	Total
Summer-December 2020 Woody Removal	\$2,523	\$17,660
Summer-Fall 2020 Integrated plant management	\$1,409	\$9,860
Spring 2021 Rx Burn	Optional	\$4,680
Spring 2021 Planting/Seeding	\$1,186	\$8,302
Spring - Fall 2021 Integrated plant management	\$1,186	\$8,302
Spring - Fall 2022 Integrated plant management	\$740	\$5,180
Spring 2023 Integrated plant management	\$481	\$3,370
Fall 2023 Rx Burn	Optional	\$4,680
<b>Total with Rx Burns (*Optionals)</b>		<b>\$62,034</b>
<b>Total w/o Rx Burns</b>		<b>\$52,674</b>

# Timeline Elaboration

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Integrated Plant Management: visits will occur 3 times annually from 2020 to 2022 and one final visit the spring of 2023. Spot Herbicide Treatment/Spot Mow of Invasive/Non-Natives: This line item and any followed with the same title include a crew of Ecological Technicians transecting with backpack sprayers to spot treat any non-native and invasive species using a Millennium Ultra solution. This is to insure target species are treated while non-target species are not hit with over spray. While treating, if they find any areas that would benefit more from being mowed they will have string trimmers with them. Spot Herbicide/Mow visits will occur in the spring and mid/late summer. The 3rd visit will be a fall foliar spray (Triclopyr) of small diameter woody invasive/non natives while natives are dormant.

Woody removal of invasive/non natives: Removal will be conducted on species too large to be foliar sprayed or in dense areas of invasive/non natives. Work will be performed when ground conditions are favorable (Dry, Dormant, Frozen). We will use a cut/stump treatment method which consists of cutting as close to grade as possible and treating the stump with a 20% triclopyr solution to prevent regrowth. Smaller material, in less dense areas, will be bucked and scattered to increase our fuels for the upcoming spring burn. In dense areas of removal, material will be stacked and burned in low sensitive areas. Any burn scars from pile burning will be 6'x6' or under and will be seeded the following spring

Controlled Burn: With ideal conditions of a NW wind at 8-10mph and proper updraft conditions of a late morning NRP will conduct a controlled burn with 6 wildland firefighters, 2 engines mounted on UTVs and one water truck. A burn variance and a city permit will be in place along with proper road signs and traffic control if necessary. We will also coordinate with the client the best approach for notifying the surrounding neighbors prior to burning. Rx Burns are an optional line item but are highly encouraged to stimulate growth. Each burn is \$4,680/7ac unit. The client does not have to commit to both spring 2021 burn and fall 2024 burn and has the option to choose only one burn to be performed.

Seeding: Seeding will occur the spring of 2021 in areas of dense woody removal, burn scars, areas of lower diversity, and areas with the potential for erosion. The seed mixes used will be verified through the client. Seed will consist of a Minnesota native woodland mix, savanna mix, and a cover crop mix. In areas of dense woody removal, burn scars, and areas of potential erosion, a cover crop mix will be used in addition to the woodland/savanna seed to prevent erosion and give ground cover to reduce the growth of undesirable species.