



## Tree/Shrub Mitigation

### Sacagawea Pipeline Projects:

- Sacagawea Pipeline (PU-15-114)-McKenzie and Mountrail Counties
- Johnson's Corner Connector (PU-15-744)- McKenzie County
- Palermo to Enbridge (PU-15-670)- Mountrail County

**Project Tree Counts:** Listed below are the tree/shrub replacement counts (Tree Count Spread Sheets attached). Tree Count Spread Sheets attached.

- Sacagawea Pipeline: total of 595 trees/shrubs were removed during construction of the pipeline project necessitating the replanting of 1190 trees/shrubs.
- Johnson's Corner Connector: a total of 519 trees/shrubs were removed during the construction of the pipeline necessitating the replanting of 1038 trees/shrubs.
- Palermo to Enbridge: No trees/shrubs were removed during the construction of the pipeline.

**Tree/Shrub Mitigation Plan:** Sacagawea Pipeline Company, LLC will contract with the Natural Resource Conservation Service offices in both McKenzie and Mountrail counties whose soil conservation offices each have programs whose task/goal is to plant and monitor new trees in their respective counties. NRCS officials meet with individual landowners to develop a plan for tree planting on their property. The tree plan developed by NRCS and the landowner will include the type of trees/shrubs that will work best for the soil at that site which could include some species, including Siberian Elm (NRCS does plant this tree although it is not a first choice but may be best for a particular soil type) which is considered invasive, that will work best with the soil type on that particular property and which species the landowner wants replanted. In the case of landowners who do not want trees replanted on their property, both offices also have collections much like the state tree bank to allow for the planting of trees in other areas of their respective counties. Trees planted on property not legally accessible to Sacagawea Pipeline Company, LLC will be monitored by those individual landowners. For landowners that requested that the replacement trees/shrubs be planted on their property, the NRCS office will make a tree plan with each landowner, install a weed barrier which will also help with moisture retention, plant the trees, and monitor the trees for mortality for 3 years. Trees will be planted in the spring and monitored each fall. Any trees that are found to be dead will be replaced and monitored. Sacagawea Pipeline Company, LLC will be billed for all work performed by the respective offices. Trees placed in the "tree bank" will be planted at the discretion of each NRCS office. The tree counts, tree replacements, and trees to be banked are listed below by county:

- McKenzie County

Total Replacement Trees/Shrubs	Total Trees/Shrubs to be planted in the project area	Trees/Shrubs given to NRCS Tree Bank
2056	1666	390

- Mountrail County

Total Replacement Trees/Shrubs	Total Trees/Shrubs to be planted in the project area	Trees/Shrubs given to NRCS Tree Bank
172	6	166

Sacagawea Pipeline (PU-15-114) Tree Count												
Area	Common Name	Scientific Name	Removed	Remediation Commitment	Landowner	Latitude	Longitude	Landowner planting preference	Section (w/quarter call)	Township	Range	County
WV6	Silver Buffalo	Shepherdia argentea	10	20	Curtis & Sharon Anderson			Yes, plant on site.	25: NW4NE4 30: NE4NW4 30: SE4SW4	151 151 151	95 95 95	McKenzie
	Green Ash	Fraxinus pennsylvanica	40	80				Yes, plant on site.	25: NW4NE4 30: NE4NW4 30: SE4SW4	151 151 151	95 95 95	McKenzie
	Siberian Elm	Ulmus pumila	11	22				Yes, plant on site.	25: NW4NE4 30: NE4NW4 30: SE4SW4	151 151 151	95 95 95	McKenzie
	Boxelder	Acer negundo	10	20				Yes, plant on site.	25: NW4NE4 30: NE4NW4 30: SE4SW4	151 151 151	95 95 95	McKenzie
WV9	Silver Buffalo	Shepherdia argentea	26	52	Curtis & Sharon Anderson			Yes, plant on site.	25: NW4NE4 30: NE4NW4 30: SE4SW4	151 151 151	95 95 95	McKenzie
	Green Ash	Fraxinus pennsylvanica	60	120				Yes, plant on site.	25: NW4NE4 30: NE4NW4 30: SE4SW4	151 151 151	95 95 95	McKenzie
WV13	Silver Buffalo	Shepherdia argentea	22	44	Curtis & Sharon Anderson			Yes, plant on site.	25: NW4NE4 30: NE4NW4 30: SE4SW4	151 151 151	95 95 95	McKenzie
	Green Ash	Fraxinus pennsylvanica	40	80				Yes, plant on site.	25: NW4NE4 30: NE4NW4 30: SE4SW4	151 151 151	95 95 95	McKenzie
WV14	Silver Buffalo	Shepherdia argentea	1	2	Curtis & Sharon Anderson			Yes, plant on site.	25: NW4NE4 30: NE4NW4 30: SE4SW4	151 151 151	95 95 95	McKenzie
	Green Ash	Fraxinus pennsylvanica	1	2				Yes, plant on site.	25: NW4NE4 30: NE4NW4 30: SE4SW4	151 151 151	95 95 95	McKenzie
WV15	Green Ash	Fraxinus pennsylvanica	7	14	Curtis & Sharon Anderson			Yes, plant on site.	25: NW4NE4 30: NE4NW4 30: SE4SW4	151 151 151	95 95 95	McKenzie
WV16	Chokecherry	Prunus virginiana	30	60	Curtis & Sharon Anderson			Yes, plant on site.	25: NW4NE4 30: NE4NW4 30: SE4SW4	151 151 151	95 95 95	McKenzie
WV17	Green Ash	Fraxinus pennsylvanica	3	6	Paul Eide			Milo Wisness (tenant) would like the trees planted in T152N-R96W-Section 3. Also, please have them contact him prior to planting 701-421-1004.	33: NW4SW4, NW4SE4	151	95	McKenzie
	Burr Oak	Quercus macrocarpa	1	2				Milo Wisness (tenant) would like the trees planted in T152N-R96W-Section 3. Also, please have them contact him prior to planting 701-421-1004.	33: NW4SW4, NW4SE4	151	95	McKenzie
WV18	Green Ash	Fraxinus pennsylvanica	4	8	Paul Eide			Milo Wisness (tenant) would like the trees planted in T152N-R96W-Section 3. Also, please have them contact him prior to planting 701-421-1004.	33: NW4SW4, NW4SE4	151	95	McKenzie
	Silver Buffalo	Shepherdia argentea	30	60				Milo Wisness (tenant) would like the trees planted in T152N-R96W-Section 3. Also, please have them contact him prior to planting 701-421-1004.	33: NW4SW4, NW4SE4	151	95	McKenzie
WV19	Burr Oak	Quercus macrocarpa	6	12	Donald Nelson			Yes, contact LO prior to planting for input on location 701-580-2182.	3: Lot 4	150	95	McKenzie
WV20	Green Ash	Fraxinus pennsylvanica	1	2	Larry & Barbara Henderson			Yes, contact LO prior to planting for input on location 701-421-9954.	3: Lot 1	150	95	McKenzie
	Silver Buffalo	Shepherdia argentea	7	14				Yes, contact LO prior to planting for input on location 701-421-9954.	3: Lot 1	150	95	McKenzie
WV21	Green Ash	Fraxinus pennsylvanica	25	50	Lorraine Dailey			Yes, Larry Jones (tenant) would like trees planted 50 feet away from fence line. Contact tenant prior to planting, 701-675-2426	2: Lot 2	150	95	McKenzie
	Burr Oak	Quercus macrocarpa	50	100				Yes, Larry Jones (tenant) would like trees planted 50 feet away from fence line. Contact tenant prior to planting, 701-675-2426	2: Lot 2	150	95	McKenzie
	Silver Buffalo	Shepherdia argentea	5	10				No, trees can go to State Tree Bank.	2: Lot 2	150	95	McKenzie
	Quaking Aspen	Populus tremuloides	5	10				Yes, Larry Jones (tenant) would like trees planted 50 feet away from fence line. Contact tenant prior to planting, 701-675-2426	2: Lot 2	150	95	McKenzie
WV23	Silver Buffalo	Shepherdia argentea	6	12	US Dept of Interior (TAT, Foote 1092A/1093A-C) Blaine Foote 701-421-0530	47.85213	-102.78117	plant on site	36: Lot 7, N2SE4	151	95	McKenzie
	Arnold Hawthorn	Crataegus arnoldiana	2	4					36: Lot 7, N2SE4	151	95	McKenzie
WV24	Silver Buffalo	Shepherdia argentea	8	16	US Dept of Interior (Parshall 990A-A)	47.85217	-102.7616	plant on site	31: N2SW4	151	94	McKenzie
	Arnold Hawthorn	Crataegus arnoldiana	2	4					31: N2SW4	151	94	McKenzie
WV28	American Plum	Prunus americana	13	26	US Dept of Interior (2085-B Fetig)	47.85266	-102.74528	do not plant on site	32: E2NW4SW4, NE4SW4	151	94	McKenzie
	Silver Buffalo	Shepherdia argentea	6	12					32: E2NW4SW4, NE4SW4	151	94	McKenzie
WV30	Arnold Hawthorn	Crataegus arnoldiana	5	10	US Dept of Interior (2085-B Fetig)	47.85275	-102.74233	do not plant on site	32: E2NW4SW4, NE4SW4	151	94	McKenzie
WV32	Silver Buffalo	Shepherdia argentea	12	24	US Dept of Interior (1984 Hosie) Ambrose Hosie: 701-720-5590	47.85217	-102.7382	plant on site	32: N2SE4, SE4NE4	151	94	McKenzie
WV33	Silver Buffalo	Shepherdia argentea	6	12	US Dept of Interior (1984 Hosie)	47.85221	-102.73746	plant on site	32: N2SE4, SE4NE4	151	94	McKenzie
WV39	Green Ash	Fraxinus pennsylvanica	18	36	Meghan Wilkinson			Yes, contact Tom Wilkinson prior to planting 701-421-0414.	34: SW4NW4	151	94	McKenzie
	Burr Oak	Quercus macrocarpa	36	72				Yes, contact Tom Wilkinson prior to planting 701-421-0414.	34: SW4NW4	151	94	McKenzie
WV40	Blue Spruce	Picea pungens	8	16	Jay Sandstrom			LO does not want any trees planted on site	33: S2S2	151	93	Mountrail
	American Elm	Ulmus americana	6	12				LO does not want any trees planted on site	33: S2S2	151	93	Mountrail
WV41	Blue Spruce	Picea pungens	6	12	Jay Sandstrom			LO does not want any trees planted on site	33: S2S2	151	93	Mountrail
	American Elm	Ulmus americana	8	16				LO does not want any trees planted on site	33: S2S2	151	93	Mountrail
WV42	Silver Buffalo	Shepherdia argentea	1	2	Jay Sandstrom			LO does not want any trees planted on site	33: S2S2	151	93	Mountrail
WV44	Blue Spruce	Picea pungens	9	18	Jay Sandstrom			LO does not want any trees planted on site	33: S2S2	151	93	Mountrail
	Siberian Elm	Ulmus pumila	12	24				LO does not want any trees planted on site	33: S2S2	151	93	Mountrail
WV45	Siberian Elm	Ulmus pumila	3	6	Jay Sandstrom			LO does not want any trees planted on site	33: S2S2	151	93	Mountrail
WV46	Siberian Elm	Ulmus pumila	3	6	Jay Sandstrom			LO does not want any trees planted on site	33: S2S2	151	93	Mountrail
WV55	Siberian Elm	Ulmus pumila	1	2	Sherri Reynolds & Tara Salute			No, trees can go to State Tree Bank.	21: S2SE4, NE4SE4	152	92	Mountrail
WV56	Siberian Elm	Ulmus pumila	4	8	Sherri Reynolds & Tara Salute			No, trees can go to State Tree Bank.	21: S2SE4, NE4SE4	152	92	Mountrail
WV60	American Plum	Prunus americana	2	4	Michael Littlefield			No, trees can go to State Tree Bank.	31: SE4NW4	153	91	Mountrail
WV64	Green Ash	Fraxinus pennsylvanica	1	2	Daryl & Pam Locken			LO would like to have the trees planted by the their farmstead.Told the LO we would call in advance as to placement. (701) 898-1462	10: NW4NW4	153	91	Mountrail
	Siberian Elm	Ulmus pumila	2	4				LO would like to have the trees planted by the their farmstead.Told the LO we would call in advance as to placement. (701) 898-1462	10: NW4NW4	153	91	Mountrail
WV65	Silver Buffalo	Shepherdia argentea	20	40	Daniel & Beatrice Kanninen			No, trees can go to State Tree Bank.	33: SW4SE4	154	91	Mountrail

Total

595

1190

1190 Total replacement trees

172 Mountrail County

1018 McKenzie County

58 McKenzie Tree Bank

166 Mountrail Tree Bank

960 McKenzie County to plant

6 Mountrail County to plant

Area	Common Name		Removed	Remediation Commitment	Landowner	Easement (from Alignment Sheets)	Section (w/quarter call)	Township	Range	Landowner Preference	County
WV25	Green Ash	Fraxinus pennsylvanica	125	250	Donald A. Nelson	ND-MKC-JC-019.01	9: NW4	150	95	Yes, contact LO prior to planting for input on location 701-580-2182.	McKenzie
WV28	Green Ash	Fraxinus pennsylvanica	5	10	Donald A. Nelson	ND-MKC-JC-019.01	9: NW4	150	95	Yes, contact LO prior to planting for input on location 701-580-2182.	McKenzie
VW30	Chokecherry	Prunus virginiana	6	12	Gary and Patsy Levang JT	ND-MKC-JC-022	18: NW4SE4, NE4SW4, W2NE4	150	95	No. Can be donated to State Tree Bank.	McKenzie
WV31	Arnold Hawthorn	Crataegus arnoldiana	50	100	Larry Veeder	ND-MKC-JC-024	18: NW4SW4	150	95	Yes, but only original amount, 50 can go to State Tree Bank.	McKenzie
	Silver Buffaloberry	Shepherdia argentea	20	40			18: NW4SW4	150	95	Yes, but only original amount, 20 can go to State Tree Bank.	McKenzie
	Chokecherry	Prunus virginiana	150	300			18: NW4SW4	150	95	Yes, but only original amount, 150 can go to State Tree Bank.	McKenzie
	American Plum	Prunus americana	100	200			18: NW4SW4	150	95	Yes, but only original amount, 100 can go to State Tree Bank.	McKenzie
	Arnold Hawthorn	Crataegus arnoldiana	40	80	David Veeder	ND-MKC-ICDA-001	13: N2SE4	150	96	Yes. LO anticipates being back in ND on Oct. 14 and wants to consult with someone on the location to be planted. Office: (406) 248-9157 Cell: (406) 670-9220 veeder@180com.net	McKenzie
	Green Ash	Fraxinus pennsylvanica	2	4			13: N2SE4	150	96	Yes. LO anticipates being back in ND on Oct. 14 and wants to consult with someone on the location to be planted. Office: (406) 248-9157 Cell: (406) 670-9220 veeder@180com.net	McKenzie
	Siberian Elm*	Ulmus pumila	1	2			13: N2SE4	150	96	Yes. LO anticipates being back in ND on Oct. 14 and wants to consult with someone on the location to be planted. Office: (406) 248-9157 Cell: (406) 670-9220 veeder@180com.net	McKenzie
	Silver Buffaloberry	Shepherdia argentea	10	20			13: N2SE4	150	96	Yes. LO anticipates being back in ND on Oct. 14 and wants to consult with someone on the location to be planted. Office: (406) 248-9157 Cell: (406) 670-9220 veeder@180com.net	McKenzie
	Chokecherry	Prunus virginiana	10	20			13: N2SE4	150	96	Yes. LO anticipates being back in ND on Oct. 14 and wants to consult with someone on the location to be planted. Office: (406) 248-9157 Cell: (406) 670-9220 veeder@180com.net	McKenzie
Total			519	1038							
	* Invasive species.										

Total trees to plant 1038  
Trees to bank 332  
Trees to plant 706