Madbury Snow Plowing Estimate - Rev 1/12/23

8) Time for stops to refuel, perform maintenance , and reload sand/salt etc. have

not been included. (see necessary idle time.)

	Intersection	Length	One Way	2 Pass	Total Added	Truck	
Name	Stops	in feet	Added Travel		Travel (2 way?)	Turn Arounds	feet per mile = 5,280
Andrew way	1	455	0	910	0	1	1/2 mle = 2,640
Beech Hill	1	349	2,007	698	4,014	1	Added travel = 1/2 Madbury road 1/4 mile = 1,320
Champerone	1	2,347	6,019	4,694	12,038	1	1/10 mile = 528
Cherry Lane	1	7,569	C	15,138	0	1	
Drew Road	0	2,212	0	4,424	0	0	Use Drew road to reach Piscataqua Bridge Road on first pass
Evans	1	6,161	C	12,322	0	0	
Fancy Hill	1	1,027	C	2,054	0	1	
Fern Way	1	1,796	C	3,592	0	1	
Fitch	1	1,874	0	3,748	0	1	
French Cross	1	1,520	350	3,040	700	1	
Freshet	2	8,424		16,848	100	0	
Garrison Lane	1	3,098	C	6,196	0	1	
Hayes	1	13,105				1	
Hook Mill	1	1,430				1	
Hoyt Pond	1	1,078				1	
Huckins	1	6,044				1	See added travel for Champerone road
Jenkins	1	4,577		,		1	
	1	1,351				1	
Kelly	1	950		-,		1	
Long Hill Circle	1	1,445				1	
Madbury Woods	0	506				1	
Mast Way	1			,		1	See added travel for Beech Hill road
Miles Ln	1	1,190				0	See added traverror beech mirroad
Mill Hill	_	9,513		,		0	
Moharimet	1	6,566		,		1	
Moss Lane	1	2,492				1	
Nute Road	1	9,438		,			U. CLICA
Old Stage	1	6,620				2	Use Old Stage road to reach French Cross, Champerone & Huckins after complete clear
Pendexter	1	885				0	Use Pendexter road to reach Madbury road to plow Beech Hill and Miles Lane.
Perkins	0	6,470				1	
Piscataqua Bridge	1	1,633				1	
Pudding Hill	1	,				0	
Sarah Paul Hill	1	1,071				1	See added travel for Beech Hill road
Tasker Lane	1					1	
Town Hall	1	5,150				11	Assumptions on 20 mph average plow speed.
FOOT or COUNT TOTALS	32	124,855				28	
MILAGE		23.65	5.75	47.29	11.50		1) There are 8 longer road sections where additional speed is possible. (Town Hall
							+ Mill Hill, Hayes, Nute, Cherry Ln, Pudding Hill + Freshet , Freshet + Drew, Huckins,
Plow or sand time in hours				2.36	0.33	0.93	and Evens + Perkins)
							2) There are 22 short reads loops and dead and reads that are not suited to speed
Adjustable parameters							2) There are 22 short roads, loops and dead end roads that are not suited to speed.
Plow speed average mph	20						3) There are 32 road intersections that will require a stop and some will require
Travel Speed average mph	35				Without	With	additional cleaning. State road intersections could involve traffic delays.
Hours to reverse direction when road ends	0.0333				Piscataqua	Piscataqua	assertion occurring. State road intersections could involve traine delays.
Allowance for necessary idle time in hours	0				Bridge	Bridge	4) The state maintained roads may or may not be plowed or in good shape when
Adjustment for Delays in hours	0				Road	Road	used to access town roads.
	Large	Count	Small				
Clear parking Lots in hours = Large * Count + Small	0.3333	2	0.25	\longrightarrow	0.92	0.92	5) Parking lot Plowing: Town offices (20 min. ea), the old fire station (15 min.) and
-							the police-fire complex (20 min.) has been added to the plow hours. Parking lot
Hours per Plow Cycle					4.38	4.54	between school and ball fields is cleared by school district.
Hours per 2 Plow Cycles					8.76	9.08	
Hours per 4 Plow Cycles					17.52	18.17	6) Assume salt/ sand application at time of plowing. On freezing rain, sleet and
Hours per 6 Plow Cycles					26.28	27.25	light snow events there may be no plowing.
							7) Adjustments for delays caused by road obstructions due to accidents, downed
							trees or fallen electrical wires are not included.