

POLICIES AND PROCEDURES

Office of the Director Department of Public Works Town of Goffstown New Hampshire	Effective Date: June 27, 2011	Policy Number: 3-4
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Subject: Road Posting Policy	Supersedes: N/A	Approved By: Board of Selectmen

PURPOSE:

Each spring, as frost thaws, many roads in Goffstown experience significant loss of strength due to excess water being trapped in the roadway's base materials. This trapped water reduces the ability of the roadway to carry heavy loads without damaging the asphalt surface. We have also experienced periods of intense flooding which weakened our road bases. In order to prevent roadway damage and to protect the large infrastructure investment the Town must employ load/weight restrictions in accordance with RSA 231:191.

The Town recognizes that the economy of our area depends on trucks hauling various types of freight over our roads. The Town intends this policy to try to be fair to the trucking industry while protecting our infrastructure investment.

The Director of Public Works and/or his assignee will be responsible for carrying out this policy and a copy of this policy will be available in the Selectmen's Office and by request at the Department of Public Works.

AFFECTED EMPLOYEES:

All Department of Public Works employees.

POLICY:

- 1) Roads to be included in this posting policy are attached at Attachment 2. Roads on this list as well as roads to be added in the future will be evaluated for the following criteria for inclusion in the list.
 - a) Surface Thickness (pavements less than 2 inches)
 - b) Type of Subgrade (excessive fine materials, ie. a reclaimed base)
 - c) DPW experience relating to ground water table, observed moisture and pavement distress, and
 - d) Surface Deflections
- 2) Roads will be posted in accordance with limits established in Attachment 1 unless a more stringent restriction already exists on the road. If there is already a load restriction the posting will reduce the load by 50% of the

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normal restricted load if the restriction is due to roadway construction conditions.

- 3) The timing for posting roads will be based on the methodology developed by the Washington State Transportation Center and outlined in Guidelines For Spring Road Use Restrictions published by the UNH Technology Transfer Center. Cumulative Freezing Degree Days (CFDD) will be measured and tracked throughout the winter using the table attached as Attachment 3.
- 4) In the spring, when it is clear that the maximum CFDD has been reached then Cumulative Melting Degree Days (CMDD) will be measured and tracked on the same form as CFDD. Notices of road posting will be distributed through the newspaper and a form letter will be mailed to all local trucking companies in the Goffstown area when the CMDD reaches 10. The posting signs will be erected when the CMDD reaches 25. This methodology estimates when thawing will reach the bottom of the base course.
- 5) The removal of the restriction and the posted signs will be made based on the following formula:

$$\text{CMDD} = \alpha \times \text{CFDD}_{\text{MAX}}$$

α will be 0.4. In the event that weather conditions warrant an earlier lifting of the posting the Director of Public Works will use his/her judgement to lift the posting at the appropriate time.

- 6) Posted Highway Use Permit can be obtained from the Department of Public Works which will allow a truck to travel on posted roads for a limited circumstance. The Posted Highway Use Permit will be made out in triplicate with the original accompanying the driver in the truck. One copy will be forwarded to the Goffstown Police Department and one copy will be kept on file in the Department of Public Works.
 - a) Examples of special circumstances would include running out of heating fuel, an overflowing septic tank, etc.
 - b) Municipal vehicles with emergency or public health purposes (ie. trash trucks, snow response) are exempt from the posting policy, however, drivers are instructed to use care when traversing posted roads.
 - c) The intention is that Posted Highway Use Permits will only be issued for early morning loads after a very cold night (ie. below mid-twenties) unless there is an emergency situation.
- 7) The Town reserves the right to make trucks that have been issued a Posted Highway Use Permit cross the Transfer Station truck scales for verification of weight.

ATTACHMENT 1

Spring Posting Load Restrictions

	Legal Load Limit	Proposed Restriction (50% of legal load)
Tire Load (lb/inch of tire width)	600	300
Single Axle (lbs)	20,000	10,000
Single Axle w/ 2 tires (over 10k lbs)(lb/in)	500	250
Tandem Axle (lbs)	34,000	17,000
Gross Vehicle Weight	105,500	N/A

	GVW Limit (lbs)	GVW Limit (tons)
Truck Type		
2-axle trucks	20,000	10
3-axle trucks	27,000	14
4-axle trucks	37,000	19
5-axle trucks	44,000	22

ATTACHMENT 2

**2011 Posted Roads
Goffstown, NH**

Alpine Drive	Highland Avenue	Pattee Hill Road
Ambrose Street	Hillcrest Road	Pinardville Heights Road
Ashler Circle	Hillsdale Drive	Pine Grove Avenue
Ashler Drive	Honeysuckle Lane	Pineridge Street
Aurel Drive	Horizon Drive	Plimpton Road
Autumn Street	Hoyt Road	Ploss Lane
Back Mountain Road	Hunter Court	Plummer Street
Bailey Court	Janice Drive	Portage Road
Barnard Lane	Jasmine Lane	Rainbow Drive
Bay Street	Joffre Street	Raymond Road
Bayberry Lane	Juniper Drive	Reed Street
Black Brook Road	Katherine Street	Regina Drive
Bog Road	Kegan Drive	Rockland Ave
Chatel Avenue	Kidder Court	Roy Street
Chip Street	Knollcrest Road	Russell Avenue
Church Street	Lamy Drive	Sage Court
Cinnamon Drive	Larch Street	Saunders Road
Circle Drive	Lauren Lane	Second Avenue
Clancy Drive	Leach Hill Road	Serenitas Lane
Cottage Street	Libby Street	Sharon Street
Cove Street	Lindsey Way	Shirley Hill Road (upper loop only)
Crestwood Lane	Locker Road	Shore Drive
Daniel Plummer Rd Ext	Lucille Drive	Silver Lane
Daniel Plummer Road	Lynchville Park Road	Smith Road
Danis Park Road	McElroy Street	Snook Road
Davignon Street	McGuigan Street	Snow Road
Eagles Nest Road	Meadow Lane	Sonny Avenue
East Dunbarton Road	Mercier Court	Stephens Drive
East Union Street	Merrill Road	Summer Street
Evergreen Drive	Miles Avenue	Summit Road
Factory Street	Mill Street	Tenney Road
Fairview Street	Montelona Road	Terrace Lane
First Avenue	Mooseclub Park Road	Third Avenue
Friendship Drive	Moreau Street	Tibbetts Hill Road
Goldfinch Road	Mo-Sett Ave	Tirrell Hill Road
Gorham Pond Road	Mountain Base Road	Van Buren Circle
Greer Road	Mountain Road	Wallace Road
Haig Street	Mountain View Lane	Walnut Hill Road
Hamlin Street	New Road	Whipple Lane
Hampton Court	Orchard Hill Road	Willow Pond Road
Harvey Road	Orchard Street	Winter Street
Heather Hill Road	Paige Hill Road	Worthley Hill Road
Helen Circle	Parker Station Road	
High Street	Parsons Drive	

ATTACHMENT 3

Guidelines for Spring Road Use Restrictions

Degree-Days Log

A	B	C	D	E	F	G	H	I	J
Month	Day	High Temp	Low Temp	Avg. Temp (C-D)/2	FDD 32-Avg.	Cumu- lative FDD	MDD Avg.-29	Cumu- lative MDD	Notes
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FDD = Freezing Degree Days
MDD = Melting Degree Days