

SENATE BILL NO. 434

INTRODUCED BY TVEIT

IN THE SENATE

February 11, 1981	Introduced and referred to Committee on Highways and Transportation.
February 18, 1981	Committee recommend bill do pass as amended. Report adopted.
February 19, 1981	Bill printed and placed on members' desks.
February 20, 1981	Second reading, do pass.
February 23, 1981	Correctly engrossed.
February 24, 1981	Third reading, passed. Ayes, 46; Noes, 1. Transmitted to House.

IN THE HOUSE

March 3, 1981	Introduced and referred to Committee on Highways and Transportation.
March 12, 1981	Committee recommend bill be concurred in as amended. Report adopted.
March 21, 1981	Second reading, concurred in.
March 24, 1981	Third reading, concurred in as amended. Ayes, 86; Noes, 12.

IN THE SENATE

March 25, 1981	Returned from House with amendments.
April 1, 1981	On motion, consideration be passed for the day.

April 2, 1981

Second reading, amendments  
concurrent in.

April 4, 1981

Third reading, amendments  
concurrent in. Ayes, 46;  
Nays, 1. Sent to enrolling.

Reported correctly enrolled.

1 *State* BILL NO. 434  
 2 INTRODUCED BY *Prest*  
 3

4 A BILL FOR AN ACT ENTITLED: "AN ACT TO PROVIDE THAT, UNDER  
 5 THE GROSS VEHICLE WEIGHT LAW, THE MAXIMUM LOAD PER INCH OF  
 6 TIRE WIDTH MAY NOT EXCEED 550 POUNDS; AMENDING SECTIONS  
 7 61-10-105 AND 61-10-107, MCA."  
 8

9 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF MONTANA:

10 Section 1. Section 61-10-105, MCA, is amended to read:

11 "61-10-105. Permissible loads. (1) An axle may not  
 12 carry a load in excess of 18,000 pounds. An axle load is  
 13 defined as the total load transmitted to the road by all  
 14 wheels whose centers are included between two parallel  
 15 transverse vertical planes 40 inches apart, extending across  
 16 the full width of the vehicle.

17 (2) (a) The gross weight of a group of axles of a  
 18 vehicle or combination of vehicles, if the distance between  
 19 first and last axles of a group of axles is 18 feet or less,  
 20 and the gross weight of a vehicle if the distance between  
 21 the first and last axles of all the axles of the vehicle is  
 22 18 feet or less, may not exceed that set forth in the  
 23 following table of weights:

24 Distance in Feet Between the Maximum Gross Weight, in  
 25 First and Last Axles of any Pounds, of any Group of

1	Group of Axles of any Vehicle	Axles, of any Vehicle or
2	or Combination of Vehicles or	Combination of Vehicles,
3	Between the First and Last	or of any Vehicle.
4	Axles of all of the Axles of	
5	any Vehicle.	
6	4	32,000
7	5	32,000
8	6	32,200
9	7	32,900
10	8	33,600
11	9	34,300
12	10	35,000
13	11	35,700
14	12	36,400
15	13	37,100
16	14	43,200
17	15	44,000
18	16	44,800
19	17	45,600
20	18	46,400

21 (b) The gross weight of a vehicle or combination of  
 22 vehicles, if the distance between the first and last axles  
 23 of the vehicle or combination of vehicles is more than 18  
 24 feet, may not exceed that set forth in the following table  
 25 of weights:

1	Distance in Feet Between the	Maximum Gross Weight, in
2	First and Last Axles of all	Pounds, of any Vehicle or
3	the Axles of a Vehicle or	Combination of Vehicles.
4	Combination of Vehicles.	
5	18	46,400
6	19	47,200
7	20	48,000
8	21	48,800
9	22	49,600
10	23	50,400
11	24	51,200
12	25	55,250
13	26	56,100
14	27	56,950
15	28	57,800
16	29	58,650
17	30	59,500
18	31	60,350
19	32	61,200
20	33	62,050
21	34	62,900
22	35	63,750
23	36	64,600
24	37	65,450
25	38	66,300

1	39	68,000
2	40	70,000
3	41	72,000
4	42	73,280
5	43	73,280
6	44	73,280
7	45	73,280
8	46	73,280
9	47	73,280
10	48	73,280
11	49	73,280
12	50	73,280
13	51	73,280
14	52	73,600
15	53	74,400
16	54	75,200
17	55	76,000
18	56	76,400
19	57	76,800
20	<del>(3) Notwithstanding a vehicle's conformance with the</del>	
21	<del>requirements of subsection (1), its maximum load per inch of</del>	
22	<del>tire width may not exceed 550 pounds, based on the following</del>	
23	<del>table showing credit in inches allowed for calculating total</del>	
24	<del>pounds permissible per tire:</del>	
25	<u>Multiply Inches Allowed by Load Limit Per Inch of Tire Width</u>	

	<u>Inches Credit Allowed</u>		
	<u>Conventional</u>	<u>When Calculating Total</u>	
	<u>Replacement Tubed</u>	<u>Pounds Permissible</u>	
<u>Tire Size</u>	<u>Tire Size</u>	<u>Per Tire</u>	
6-00-16	6-00-16	6	
6-50-16	6-50-16	6-1/2	
7-17.5	7-00-15	7	
7-22.5	6-50-20 & 7-00-20	7	
8-17.5	7-00-16, 7-50-15	7-1/2	
	& 7-50-16		
8-19.5	7-00-17 & 7-50-17	7-1/2	
8-22.5	7-50-20	7-1/2	
9-22.5	8-25-20	8-1/4	
10-22.5	9-00-20	9	
11-22.5	10-00-20	10	
11-24.5	10-00-22	10	
12-22.5	11-00-20	11	
12-24.5	11-00-22	11	
<u>Duplex Tires (new type single tires to replace dual tires)</u>			
<u>Load limits shall be computed for duplex tires on the number</u>			
<u>of inches shown on tire marking. They are not to be computed</u>			
<u>on the basis of inches of tire replaced.</u>			
<u>Example:</u>			
18" duplex tire at 400 pounds for inch width == 7200			
pounds."			

Section 2. Section 61-10-107, MCA, is amended to read:

61-10-107. Maximum gross axle weight — permit required. (1) The department of highways may, based on evaluation of safety, highway capacity, and economics of highway maintenance and vehicle operation, authorize by special permit at a fee of \$10, specifying highway routings, the operation of a vehicle having two but not more than nine axles if the maximum single axle load is 20,000 pounds and if no two consecutive axles more than 40 inches or less than 96 inches apart carry a load in excess of 34,000 pounds. For purposes of this section, axles 40 inches or less apart are considered as a single axle. The maximum gross weight allowed on a vehicle or combination so authorized by this special permit shall be determined by the formula  $W = 500 (LN/N - 1 + 12N + 36)$  in which W equals gross weight, L equals wheel base in feet, and N equals number of axles. However, the maximum allowable gross weight on a group of axles may not exceed the following values:

2 axles	40,000 pounds
3 axles	60,000 pounds
4 axles	80,000 pounds
5 axles	85,500 pounds
6 axles	90,000 pounds
7 axles	105,500 pounds

1 8 axles 105,500 pounds  
2 9 axles 105,500 pounds

3 ~~(2) Notwithstanding a vehicle's conformance with the~~  
4 ~~requirements of subsection (1), its maximum load per inch of~~  
5 ~~tire width may not exceed 550 pounds, based on the table in~~  
6 ~~61-10-105(3).~~

7 ~~(2)(1)~~ This section does not apply to highways which  
8 are a part of the national system of interstate and defense  
9 highways (as referred to in 23 U.S.C. 127) when application  
10 of this section would prevent this state from receiving  
11 federal funds for highway purposes."

-End-

Approved by Committee on Highways & Transportation

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 4 A BILL FOR AN ACT ENTITLED: "AN ACT TO PROVIDE THAT, UNDER  
 5 THE GROSS VEHICLE WEIGHT LAW, THE MAXIMUM LOAD PER INCH OF  
 6 TIRE WIDTH, EXCLUDING THE STEERING AXLE, MAY NOT EXCEED 550  
 7 600 POUNDS; AMENDING SECTIONS 61-10-105 AND 61-10-107, MCA."

8 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF MONTANA:

9 Section 1. Section 61-10-105, MCA, is amended to read:

10 "61-10-105. Permissible loads. (1) An axle may not  
 11 carry a load in excess of 18,000 pounds. An axle load is  
 12 defined as the total load transmitted to the road by all  
 13 wheels whose centers are included between two parallel  
 14 transverse vertical planes 40 inches apart, extending across  
 15 the full width of the vehicle.

16 (2) (a) The gross weight of a group of axles of a  
 17 vehicle or combination of vehicles, if the distance between  
 18 first and last axles of a group of axles is 18 feet or less,  
 19 and the gross weight of a vehicle if the distance between  
 20 the first and last axles of all the axles of the vehicle is  
 21 18 feet or less, may not exceed that set forth in the  
 22 following table of weights:

23 Distance in Feet Between the Maximum Gross Weight, in  
 24 First and Last Axles of any Pounds, of any Group of

1 Group of Axles of any Vehicle Axles, of any Vehicle or  
 2 or Combination of Vehicles or Combination of Vehicles,  
 3 Between the First and Last or of any Vehicle.  
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 5 any Vehicle.

6	4	32,000
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21 (b) The gross weight of a vehicle or combination of  
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 23 of the vehicle or combination of vehicles is more than 18  
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19	57	76,800

20 (3) Notwithstanding a vehicle's conformance with the  
 21 requirements of subsection (1), its maximum load per inch of  
 22 tire width, EXCLUDING THE STEERING AXLE, may not exceed 550  
 23 600 pounds, based on the following table showing credit in  
 24 inches allowed for calculating total pounds permissible per  
 25 tire:



1 Multiply Inches Allowed by Load Limit Per Inch of Tire Width

2 Inches Credit Allowed

3 Conventional When Calculating Total

4 Tubeless Replacement Tubed Pounds Permissible

5 Tire size Tire Size Per Tire

6	<u>6-00-16</u>	<u>6-00-16</u>	<u>6</u>
7	<u>6-50-16</u>	<u>6-50-16</u>	<u>6-1/2</u>
8	<u>7-17.5</u>	<u>7-00-15</u>	<u>7</u>
9	<u>7-22.5</u>	<u>6-50-20 &amp; 7-00-20</u>	<u>7</u>
10	<u>8-17.5</u>	<u>7-00-16, 7-50-15</u>	<u>7-1/2</u>
11		<u>&amp; 7-50-16</u>	
12	<u>8-19.5</u>	<u>7-00-17 &amp; 7-50-17</u>	<u>7-1/2</u>
13	<u>8-22.5</u>	<u>7-50-20</u>	<u>7-1/2</u>
14	<u>9-22.5</u>	<u>8-25-20</u>	<u>8-1/4</u>
15	<u>10-22.5</u>	<u>9-00-20</u>	<u>9</u>
16	<u>11-22.5</u>	<u>10-00-20</u>	<u>10</u>
17	<u>11-24.5</u>	<u>10-00-22</u>	<u>10</u>
18	<u>12-22.5</u>	<u>11-00-20</u>	<u>11</u>
19	<u>12-24.5</u>	<u>11-00-22</u>	<u>11</u>

20 Duplex Tires (new type single tires to replace dual tires)

21 Load limits shall be computed for duplex tires on the number

22 of inches shown on tire marking. They are not to be computed

23 on the basis of inches of tire replaced.

24 Example:

25 18" duplex tire at 400 pounds for inch width -- 7200

1 pounds."

2 Section 2. Section 61-10-107, MCA, is amended to read:

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7 special permit at a fee of \$10, specifying highway

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9 than nine axles if the maximum single axle load is 20,000

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12 34,000 pounds. For purposes of this section, axles 40 inches

13 or less apart are considered as a single axle. The maximum

14 gross weight allowed on a vehicle or combination so

15 authorized by this special permit shall be determined by the

16 formula  $W$  equals  $500(LN/N \text{ minus } 1 \text{ plus } 12N \text{ plus } 36)$  in

17 which  $W$  equals gross weight,  $L$  equals wheel base in feet,

18 and  $N$  equals number of axles. However, the maximum

19 allowable gross weight on a group of axles may not exceed

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4 (2) Notwithstanding a vehicle's conformance with the  
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6	4	32,000
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9	7	32,900
10	8	33,600
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12	10	35,000
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15	13	37,100
16	14	43,200
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 23 of the vehicle or combination of vehicles is more than 18  
 24 feet, may not exceed that set forth in the following table  
 25 of weights:

Distance in Feet Between the First and Last Axles of all the Axles of a Vehicle or Combination of Vehicles.	Maximum Gross Weight, in Pounds, of any Vehicle or Combination of Vehicles.
18	46,400
19	47,200
20	48,000
21	48,800
22	49,600
23	50,400
24	51,200
25	55,250
26	56,100
27	56,950
28	57,800
29	58,650
30	59,500
31	60,350
32	61,200
33	62,050
34	62,900
35	63,750
36	64,600
37	65,450
38	66,300

39	68,000
40	70,000
41	72,000
42	73,280
43	73,280
44	73,280
45	73,280
46	73,280
47	73,280
48	73,280
49	73,280
50	73,280
51	73,280
52	73,600
53	74,400
54	75,200
55	76,000
56	76,400
57	76,800

(3) Notwithstanding a vehicle's conformance with the requirements of subsection (1), its maximum load per inch of tire width, EXCLUDING THE STEERING AXLE, may not exceed 550 600 pounds, based on the following table showing credit in inches allowed for calculating total pounds permissible per tire:

1	<u>Multiply Inches Allowed by Load Limit Per Inch of Tire Width</u>		
2			<u>Inches Credit Allowed</u>
3	<u>Conventional</u>		<u>When Calculating Total</u>
4	<u>Tubeless</u>	<u>Replacement Tubed</u>	<u>Pounds Permissible</u>
5	<u>Tire size</u>	<u>Tire Size</u>	<u>Per Tire</u>
6	<u>6.00-16</u>	<u>6.00-16</u>	<u>6</u>
7	<u>6.50-16</u>	<u>6.50-16</u>	<u>6-1/2</u>
8	<u>7-17.5</u>	<u>7.00-15</u>	<u>7</u>
9	<u>7-22.5</u>	<u>6.50-20 &amp; 7.00-20</u>	<u>7</u>
10	<u>8-17.5</u>	<u>7.00-16, 7.50-15</u>	<u>7-1/2</u>
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14	<u>9-22.5</u>	<u>8.25-20</u>	<u>8-1/4</u>
15	<u>10-22.5</u>	<u>9.00-20</u>	<u>9</u>
16	<u>11-22.5</u>	<u>10.00-20</u>	<u>10</u>
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20	<u>Duplex Tires (new type single tires to replace dual tires)</u>		
21	<u>Load limits shall be computed for duplex tires on the number</u>		
22	<u>of inches shown on tire marking. They are not to be computed</u>		
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24	<u>Example:</u>		
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7 special permit at a fee of \$10, specifying highway

8 routings, the operation of a vehicle having two but not more

9 than nine axles if the maximum single axle load is 20,000

10 pounds and if no two consecutive axles more than 40 inches

11 or less than 96 inches apart carry a load in excess of

12 34,000 pounds. For purposes of this section, axles 40 inches

13 or less apart are considered as a single axle. The maximum

14 gross weight allowed on a vehicle or combination so

15 authorized by this special permit shall be determined by the

16 formula  $W$  equals  $500(LN/N \text{ minus } 1 \text{ plus } 12N \text{ plus } 36)$  in

17 which  $W$  equals gross weight,  $L$  equals wheel base in feet,

18 and  $N$  equals number of axles. However, the maximum

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7 600 pounds, based on the table in 61-10-105(3).

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9 are a part of the national system of interstate and defense  
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 6 TIRE WIDTH, EXCLUDING THE STEERING AXLE, MAY NOT EXCEED 550  
 7 600 POUNDS; AMENDING SECTIONS 61-10-105 AND 61-10-107, MCA;  
 8 PROVIDING AN EFFECTIVE DATE."

9  
 10 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF MONTANA:  
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1 of weights: 2 Distance in Feet Between the 3 First and Last Axles of all 4 the Axles of a Vehicle or 5 Combination of Vehicles.	Maximum Gross Weight, in Pounds, of any Vehicle or Combination of Vehicles.	1 38 2 39 3 40 4 41 5 42	66,300 68,000 70,000 72,000 73,280
6 18	46,400	6 43	73,280
7 19	47,200	7 44	73,280
8 20	48,000	8 45	73,280
9 21	48,800	9 46	73,280
10 22	49,600	10 47	73,280
11 23	50,400	11 48	73,280
12 24	51,200	12 49	73,280
13 25	55,250	13 50	73,280
14 26	56,100	14 51	73,280
15 27	56,950	15 52	73,600
16 28	57,800	16 53	74,400
17 29	58,650	17 54	75,200
18 30	59,500	18 55	76,000
19 31	60,350	19 56	76,400
20 32	61,200	20 57	76,800
21 33	62,050	21	
22 34	62,900	22	
23 35	63,750	23	
24 36	64,600	24	
25 37	65,450	25	

(3) Notwithstanding a vehicle's conformance with the requirements of subsection (1), its maximum load per inch of tire width, EXCLUDING THE STEERING AXLE, may not exceed 550 600 pounds, based on the following table showing credit in inches allowed for calculating total pounds permissible per



1 tire:  
 2 Multiply Inches Allowed by Load Limit Per Inch of Tire Width  
 3 Inches Credit Allowed  
 4 Conventional When Calculating Total  
 5 Tubeless Replacement Tubed Pounds Permissible  
 6 Tire size Tire Size Per Tire

7	<u>6.00-16</u>	<u>6.00-16</u>	<u>6</u>
8	<u>6.50-16</u>	<u>6.50-16</u>	<u>6-1/2</u>
9	<u>7-17.5</u>	<u>7.00-15</u>	<u>7</u>
10	<u>7-22.5</u>	<u>6.50-20 &amp; 7.00-20</u>	<u>7</u>
11	<u>8-17.5</u>	<u>7.00-16, 7.50-15</u>	<u>7-1/2</u>
12		<u>&amp; 7.50-16</u>	
13	<u>8-19.5</u>	<u>7.00-17 &amp; 7.50-17</u>	<u>7-1/2</u>
14	<u>8-22.5</u>	<u>7.50-20</u>	<u>7-1/2</u>
15	<u>9-22.5</u>	<u>8.25-20</u>	<u>8-1/4</u>
16	<u>10-22.5</u>	<u>9.00-20</u>	<u>9</u>
17	<u>11-22.5</u>	<u>10.00-20</u>	<u>10</u>
18	<u>11-24.5</u>	<u>10.00-22</u>	<u>10</u>
19	<u>12-22.5</u>	<u>11.00-20</u>	<u>11</u>
20	<u>12-24.5</u>	<u>11.00-22</u>	<u>11</u>

21 Duplex Tires (new type single tires to replace dual tires)  
 22 Load limits shall be computed for duplex tires on the number  
 23 of inches shown on tire marking. They are not to be computed  
 24 on the basis of inches of tire replaced.  
 25 Example:

1 18" duplex tire at 400 pounds for inch width -- 7200  
 2 pounds."  
 3 Section 2. Section 61-10-107, MCA, is amended to read:  
 4 "61-10-107. Maximum gross axle weight -- permit  
 5 required. (1) The department of highways may, based on  
 6 evaluation of safety, highway capacity, and economics of  
 7 highway maintenance and vehicle operation, authorize by  
 8 special permit at a fee of \$10, specifying highway  
 9 routings, the operation of a vehicle having two but not more  
 10 than nine axles if the maximum single axle load is 20,000  
 11 pounds and if no two consecutive axles more than 40 inches  
 12 or less than 96 inches apart carry a load in excess of  
 13 34,000 pounds. For purposes of this section, axles 40 inches  
 14 or less apart are considered as a single axle. The maximum  
 15 gross weight allowed on a vehicle or combination so  
 16 authorized by this special permit shall be determined by the  
 17 formula  $W = 500 (LN/N - 1 + 12N + 36)$  in  
 18 which W equals gross weight, L equals wheel base in feet,  
 19 and N equals number of axles. However, the maximum  
 20 allowable gross weight on a group of axles may not exceed  
 21 the following values:

22	2 axles	40,000 pounds
23	3 axles	60,000 pounds
24	4 axles	80,000 pounds
25	5 axles	85,500 pounds

1	6 axles	90,000 pounds
2	7 axles	105,500 pounds
3	8 axles	105,500 pounds
4	9 axles	105,500 pounds

5        (2) Notwithstanding a vehicle's conformance with the  
6 requirements of subsection (1), its maximum load per inch of  
7 tire width, EXCLUDING THE STEERING AXLE, may not exceed 550  
8 600 pounds, based on the table in 61-10-105(3).

9        (2)(3) This section does not apply to highways which  
10 are a part of the national system of interstate and defense  
11 highways (as referred to in 23 U.S.C. 127) when application  
12 of this section would prevent this state from receiving  
13 federal funds for highway purposes."

14        SECTION 3. EFFECTIVE DATE. THIS ACT IS EFFECTIVE JULY  
15 1, 1981.

-End-

HOUSE COMMITTEE ON HIGHWAYS AND TRANSPORTATION  
MARCH 10, 1981  
AMENDMENTS TO SENATE BILL 434

HOUSE AMENDMENTS TO:

Respectfully report as follows: That.....SENATE..... Bill No.....434.....

1. Title, line 7.  
Following: "POUNDS;"  
Insert: "PROVIDING AN EFFECTIVE DATE;"
  
2. Page 7, line 13.  
Following: line 12  
Insert: "Section 3. Effective date. This act is effective  
July 1, 1981."