

# Vehicle Weight and Dimension (VW&D) Reforms

Ontario Ministry of Transportation



Task Force on VW&D Policy  
November 2005

## VW&D Reforms - 4 Phases

Phase 1 (2001) - 'light' semi-trailers

Phase 2 (2002) - dump semi-trailers

Phase 3 (2005) - 'heavy' semi-trailers / doubles

Phase 4 (2008) - straight trucks and trailers

# Migration to SPIF

- From 'permissive' system
- To prescribed vehicles that are:

**Safe**

**Productive**

**Infrastructure-Friendly**

**SPIF**

3

## Requirement to be SPIF

	Must be SPIF as of:	Consequence of non-SPIF:
<b>Long Combinations</b>	Always	Illegal
<b>Dump Semi-Trailers</b>	Any trailer built in or after 2003	4500 / 9000 kg penalty
<b>Light (1,2,3 axles) Semi-Trailers</b>	Effective January 1, 2006	3000 kg penalty (will increase to 4500 kg)
<b>Heavy (4+ axles) Semis / Doubles</b>	Any trailer built in or after 2006	4500 / 9000 kg penalty

## SPIF Dimensional Limits

- Tractor wheelbase - max 6.2m (244")  
(if long comb or tractor built after 2005)
- Semi-trailer length - max 16.2m (53')
- Semi-trailer wheelbase - max 12.5m (41')
- Effective rear overhang - 35% of w/b
- Track width - 2.5 to 2.6m (98" to 102")

5

## General SPIF Requirements

- 'Invisible' lift-axles are allowed.
- Single tires allowed 8,000 kg / fixed axle.
- Front axle capped at 7,700 kg.
- On-board scale required (4, 5 and 6 axle semi-trailers only).
- Enhanced braking system (5 and 6 axle semi-trailers only).

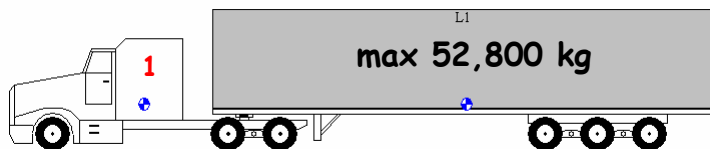
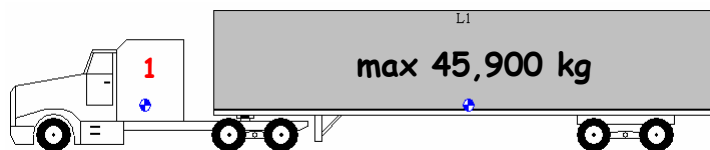
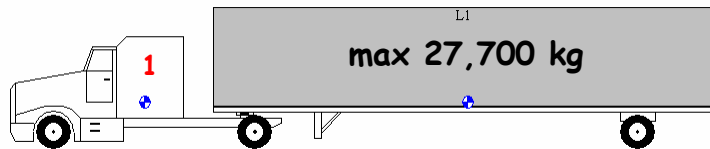
6

# SPIF Self-Steers

- Self-steers can be liftable.
- Restrictions on lift-controls.
- Self-steers must load-equalize to within 500 kg of average on fixed axles.
- Single tires allowed on self-steer axles up to 8,500 kg on quad and 9,000 kg on triaxle.

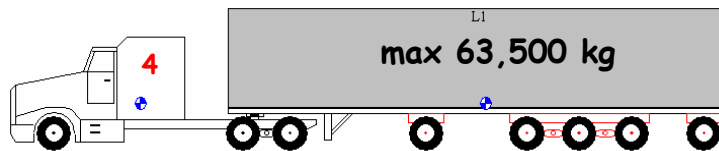
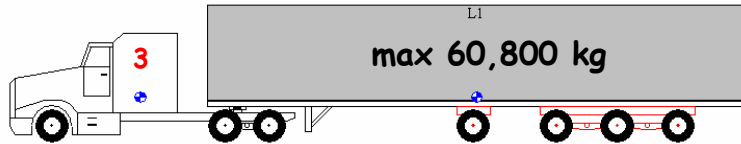
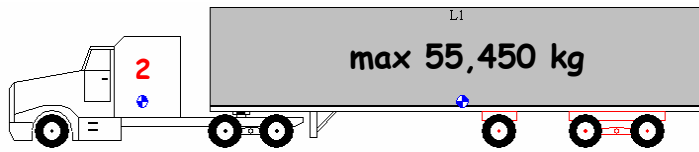
7

## SPIF Fixed Axle Tractor-Trailers



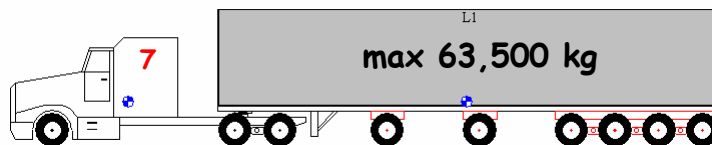
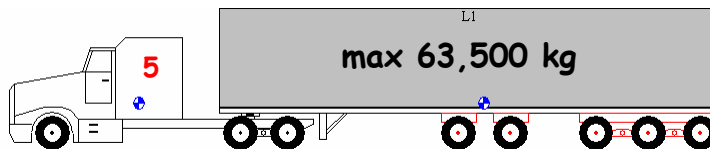
8

## SPIF Self-Steer Axle Tractor-Trailers



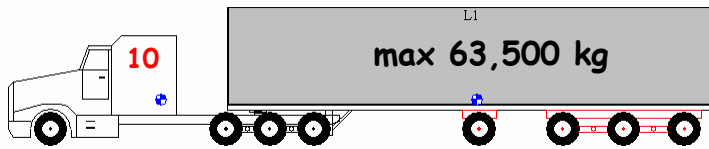
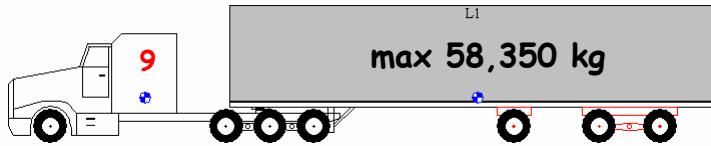
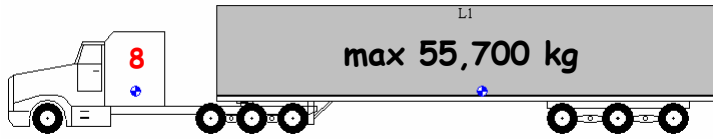
9

## SPIF Self-Steer Axle Tractor-Trailers



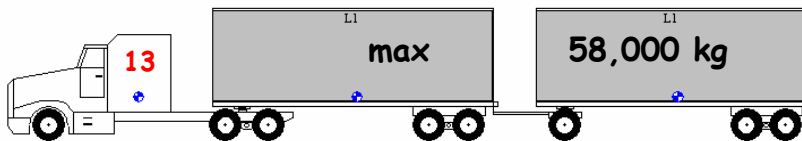
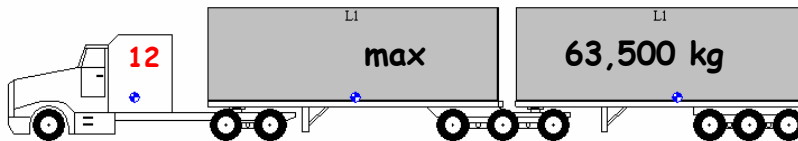
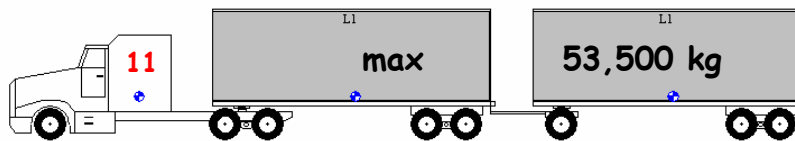
10

### SPIF Tridem Drive Tractor-Trailers



11

### SPIF Double Trailer Combinations (A, B, C train)



12

## VW&D Reforms

*Highway Traffic Act*  
Regulation 413/05

[www.e-laws.gov.on.ca](http://www.e-laws.gov.on.ca)

13

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14