COMPACTION ACTION DAY

From Thursday September 7th, 2017

The Results

Graphical Results of Soil Stress Sensor Response to Various Equipment Configurations as a Proxy to Soil Compaction





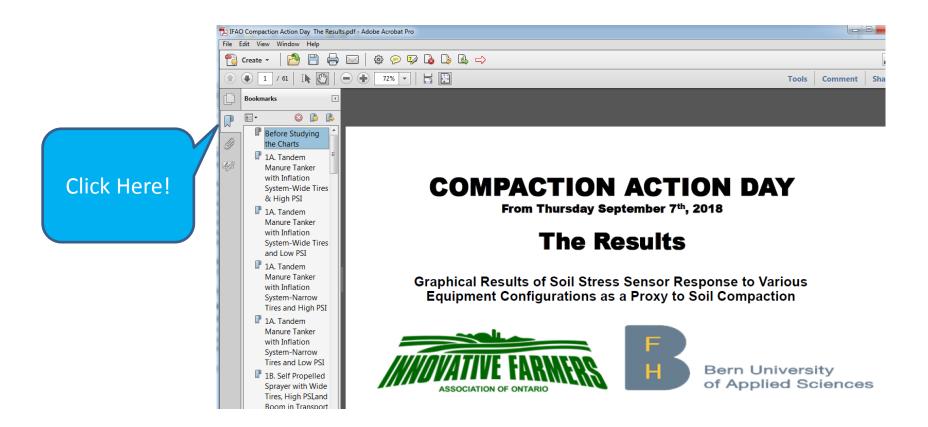
Bern University of Applied Sciences

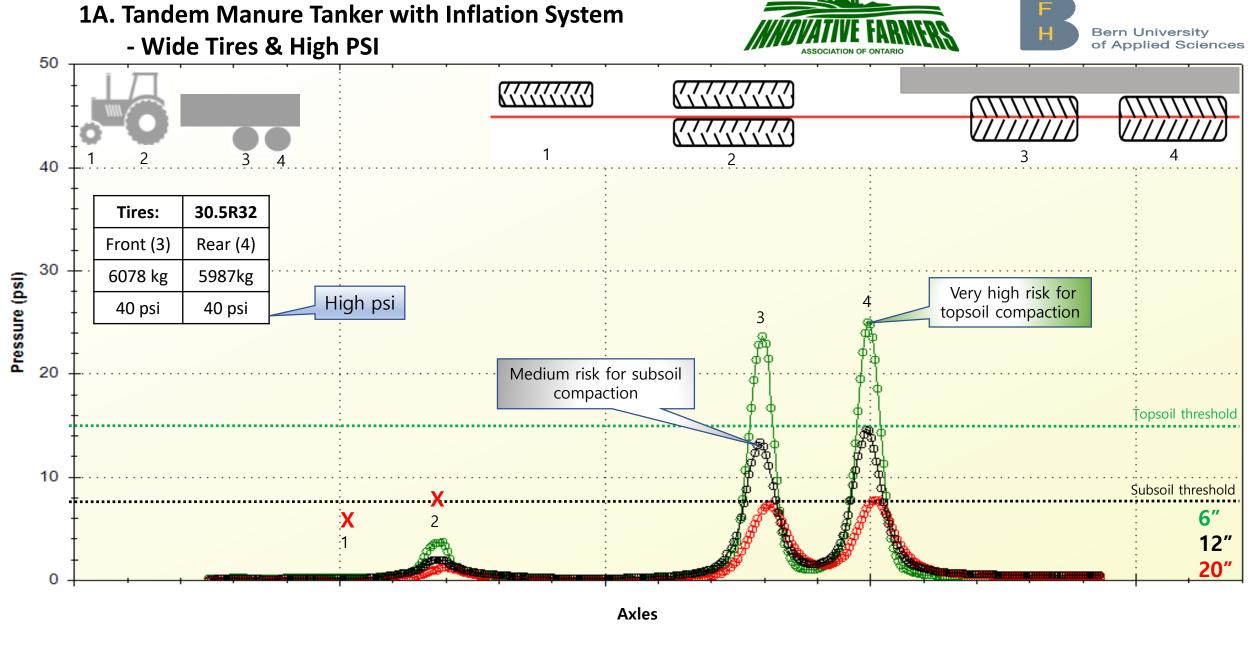
Before Studying the Charts

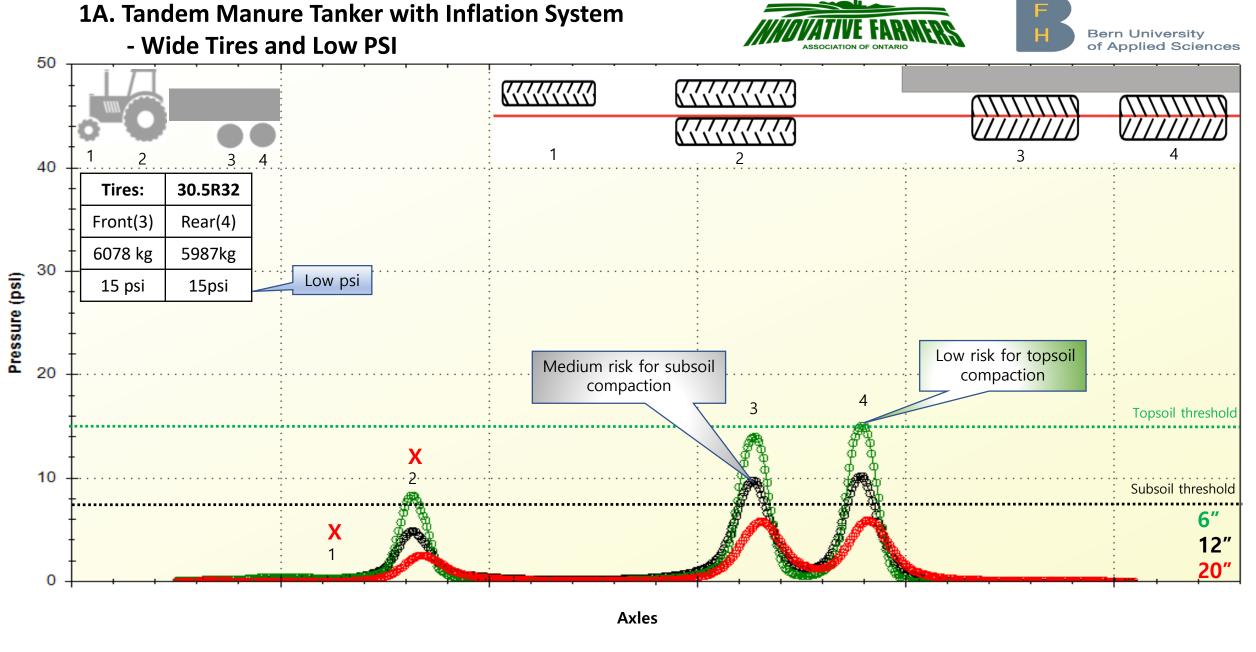
Please read the following two documents here on the website which give background on how the data was collected, and what considerations you need to make when reviewing the data:

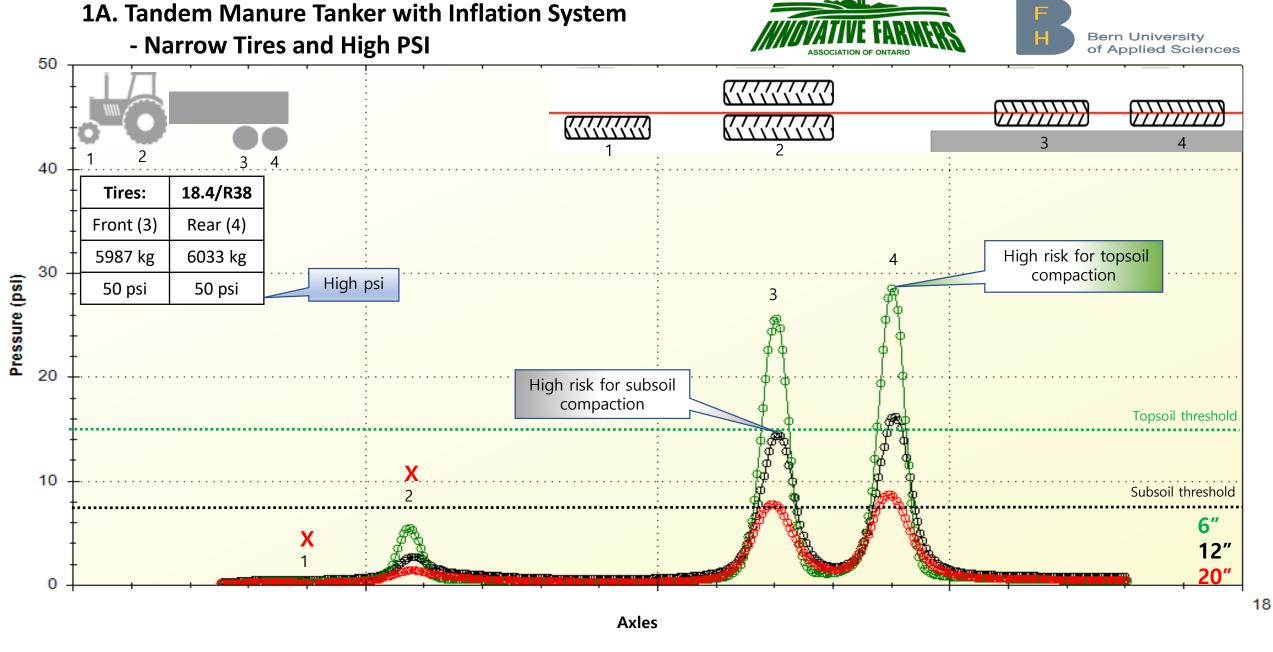
- 1. Understanding Soil Compaction
- Interpreting Compaction Action Results from Recorded Sensor Data

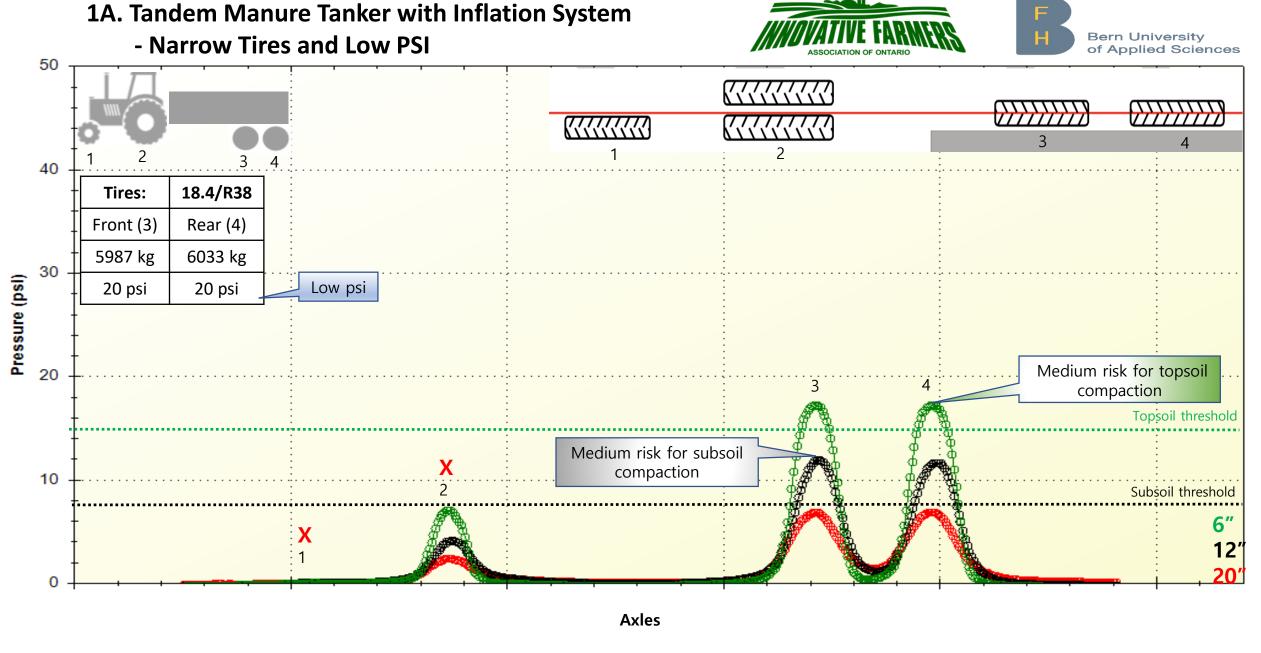
Don't See the Bookmark View?









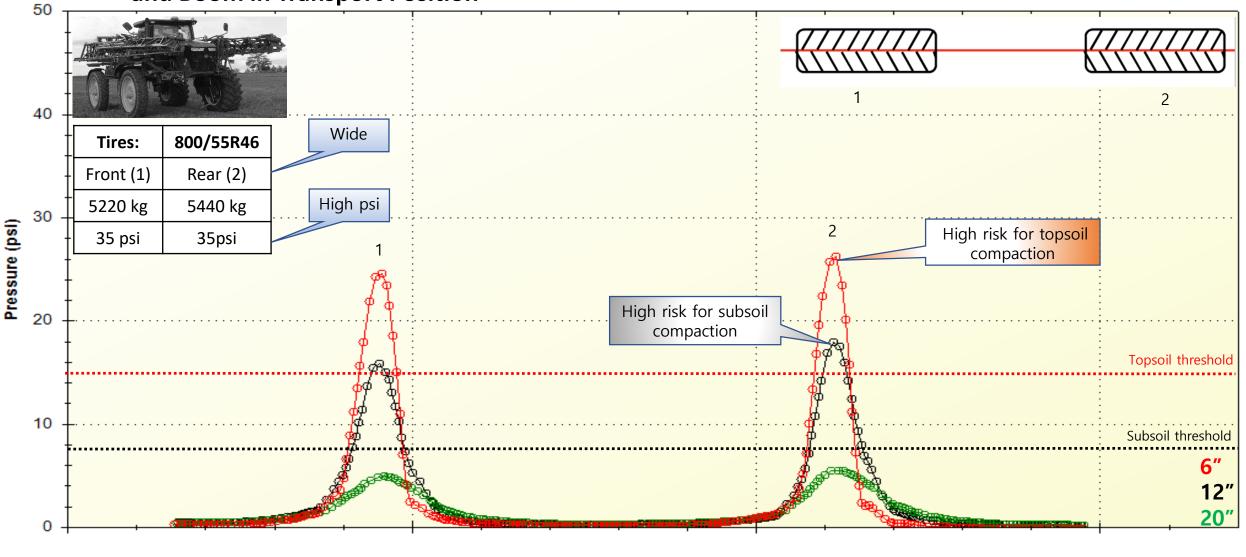


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1B. Self Propelled Sprayer with Wide Tires, High PSI, and Boom in Transport Position





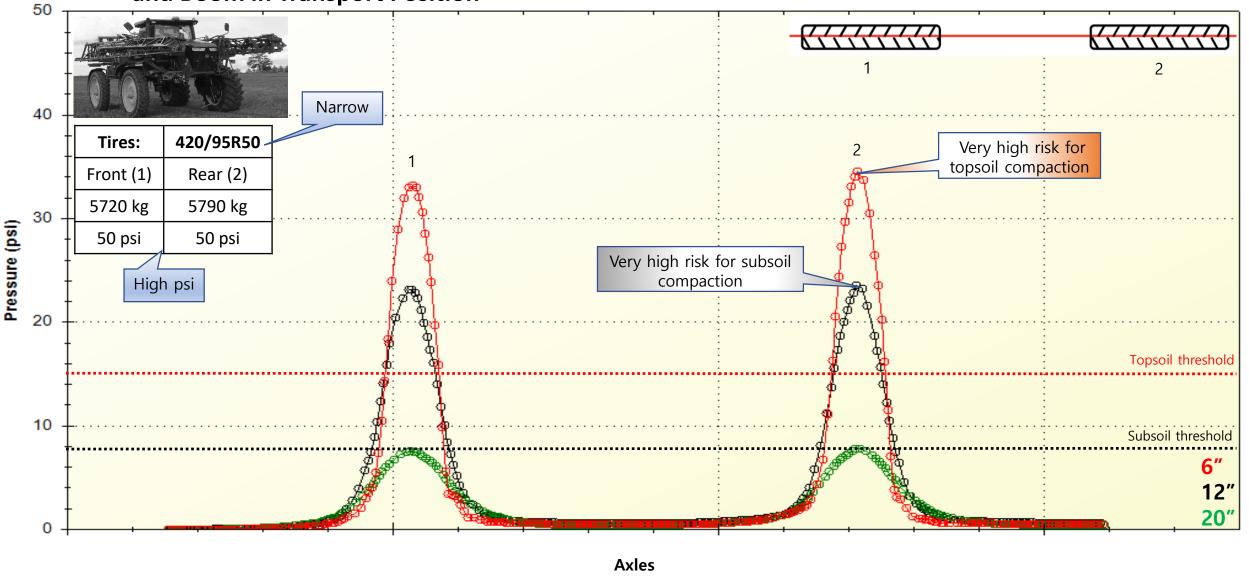


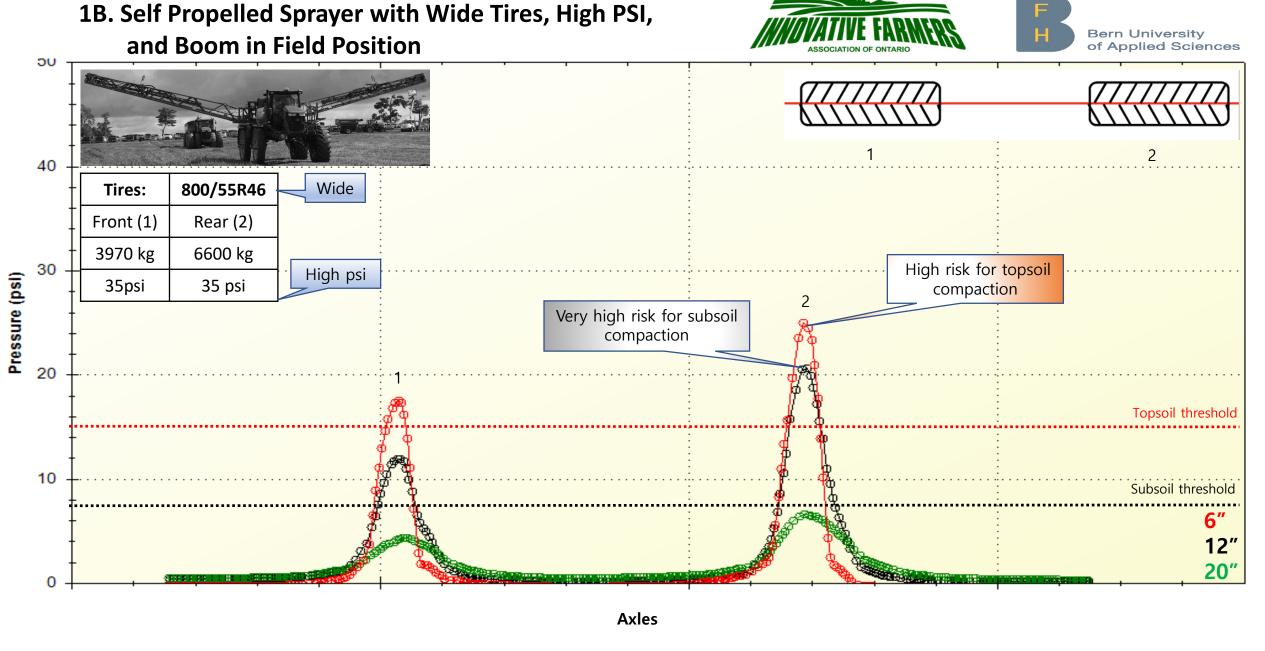
Axles

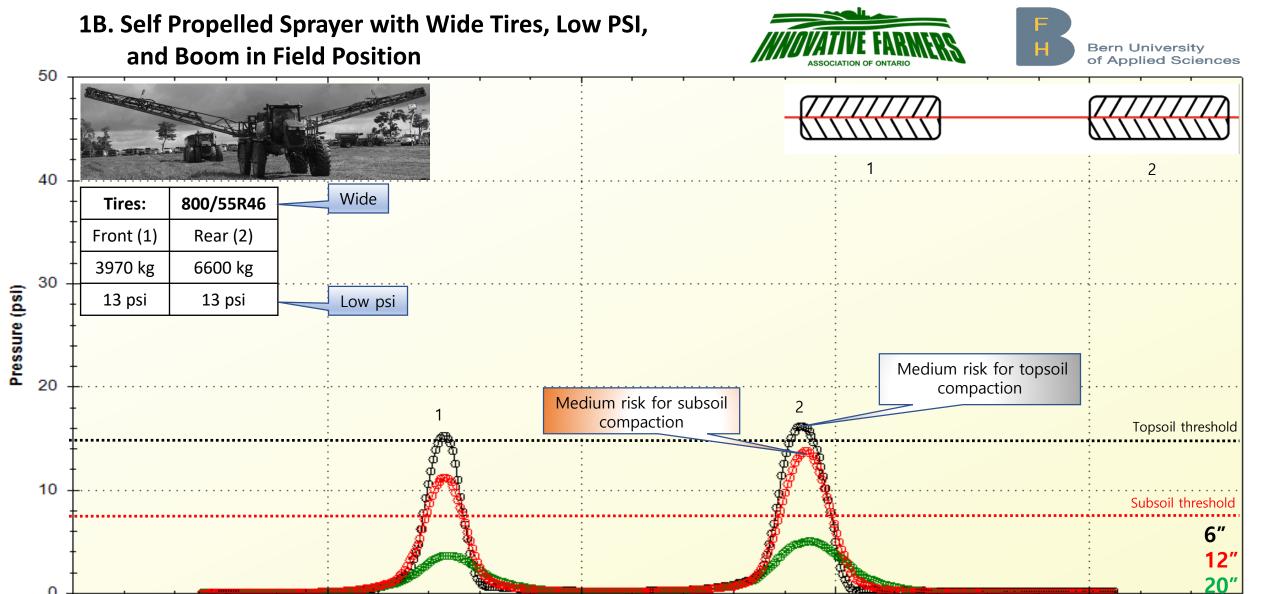












Axles

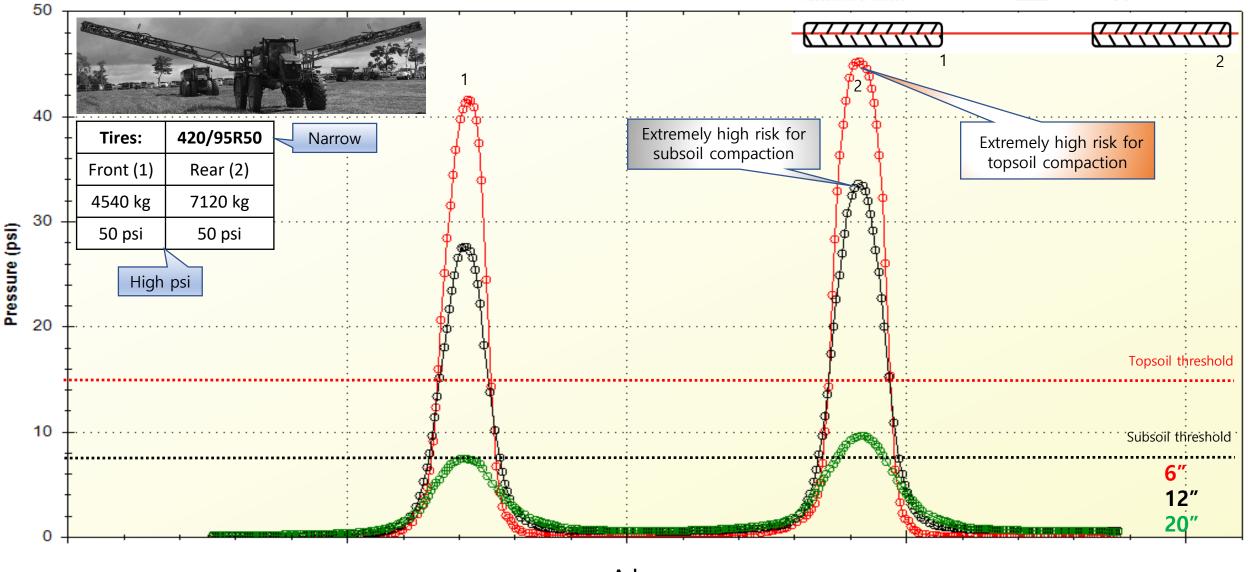
X: Off sensor, not measured.

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1B. Self Propelled Sprayer with Narrow Tires, High PSI, and Boom in Field Position







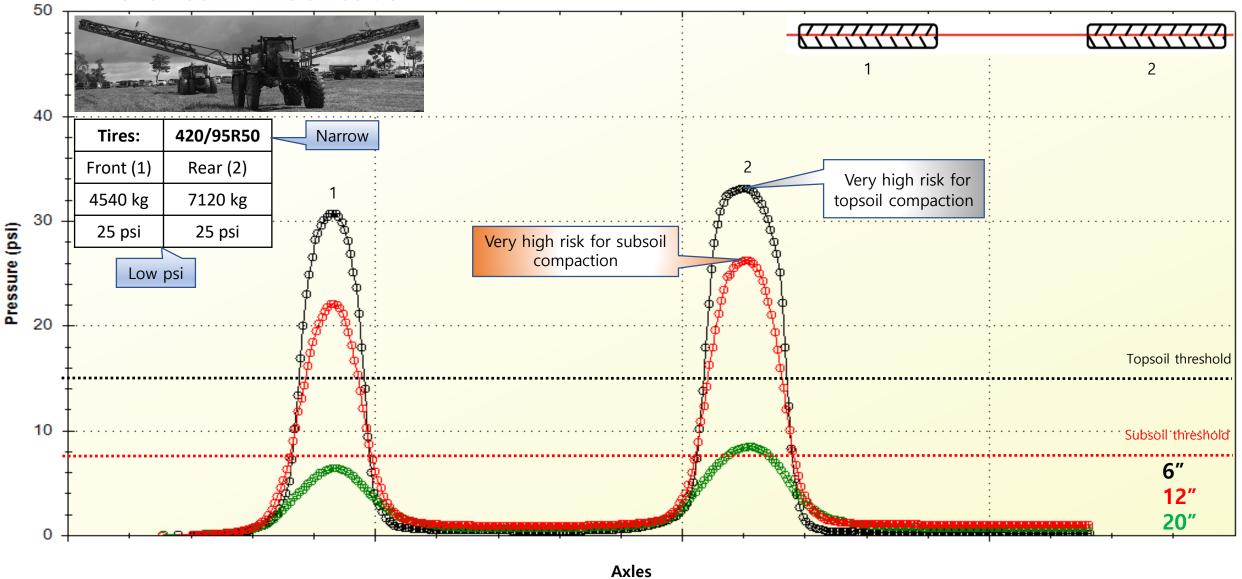
Axles

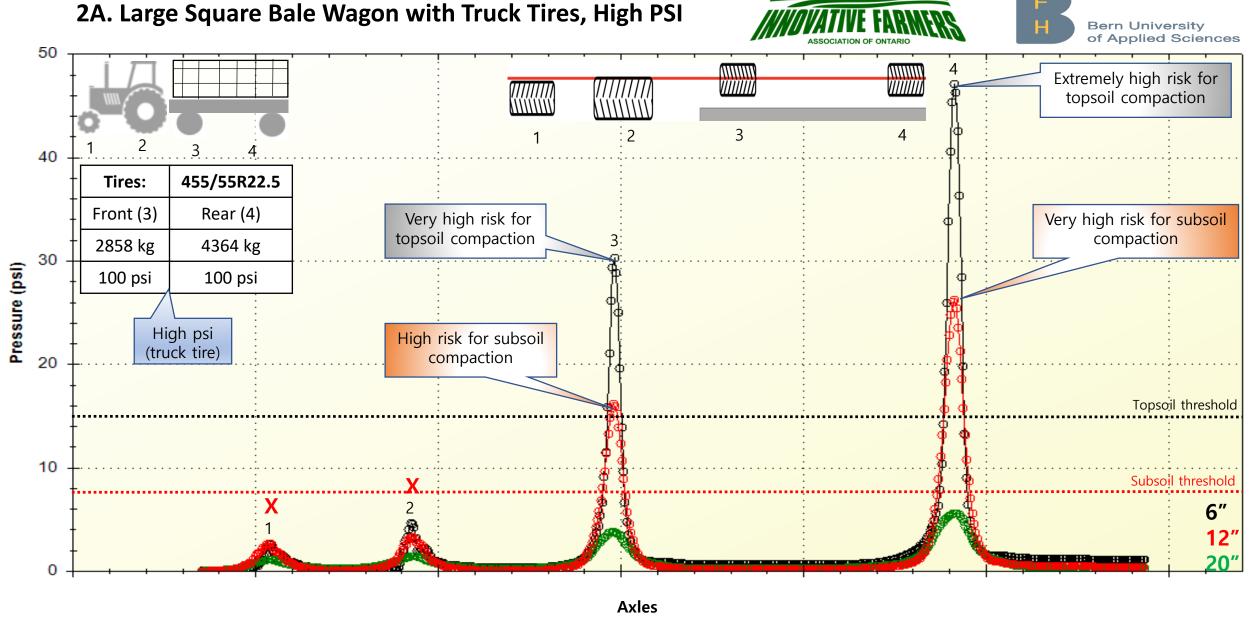
X: Off sensor, not measured.

1B. Self Propelled Sprayer with Narrow Tires, Low PSI, and Boom in Field Position

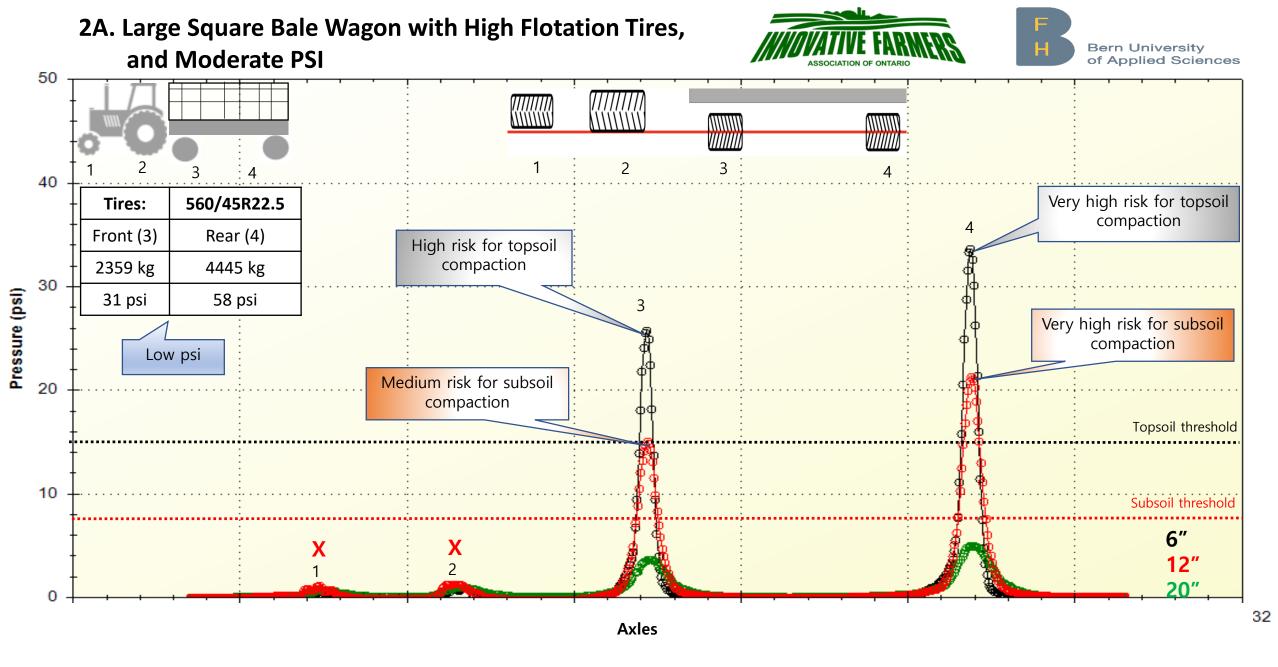








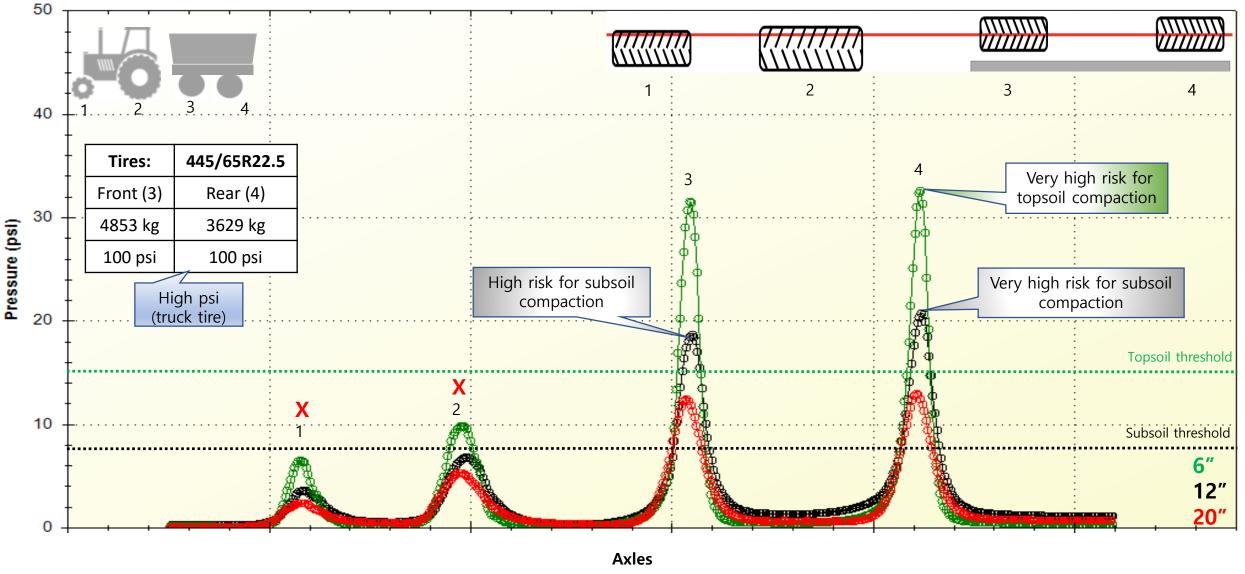
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2B. 600 Bu Gravity Wagon with Truck Tires High PSI







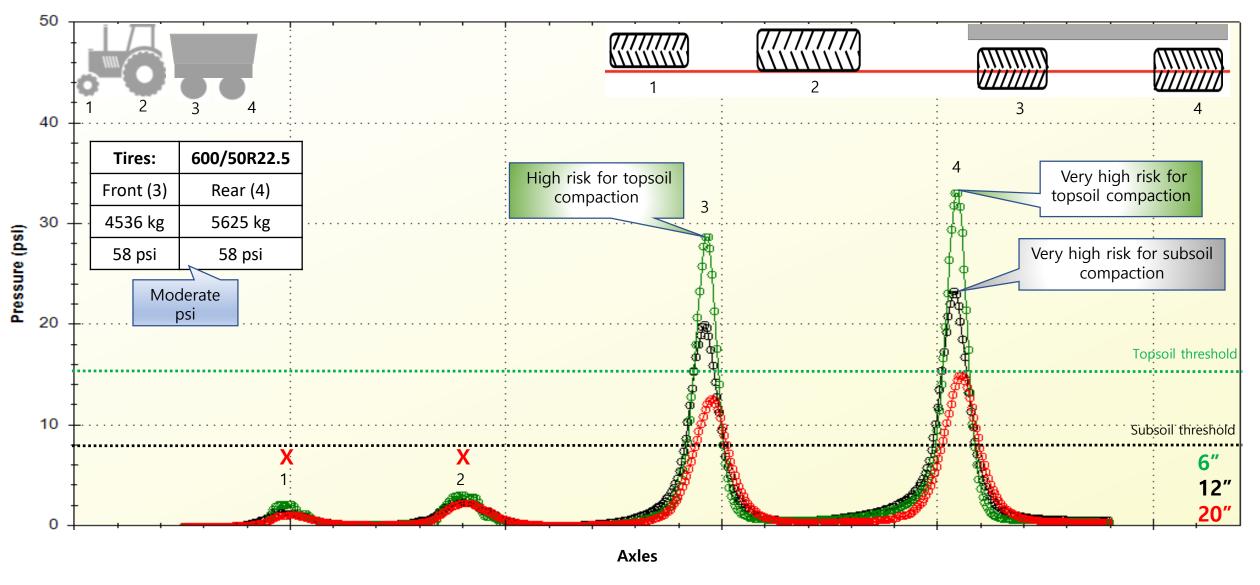
X: Off sensor, not measured.

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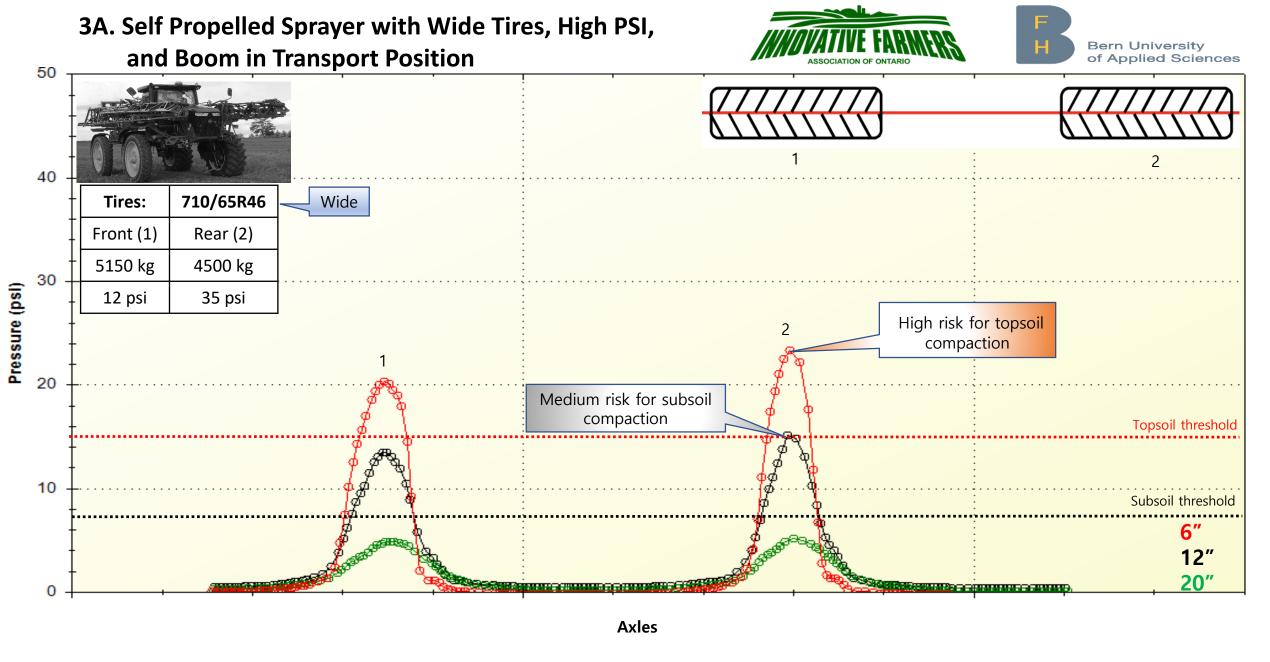
2B. 600 Bu Gravity Wagon with High Flotation Tires, and Moderate PSI







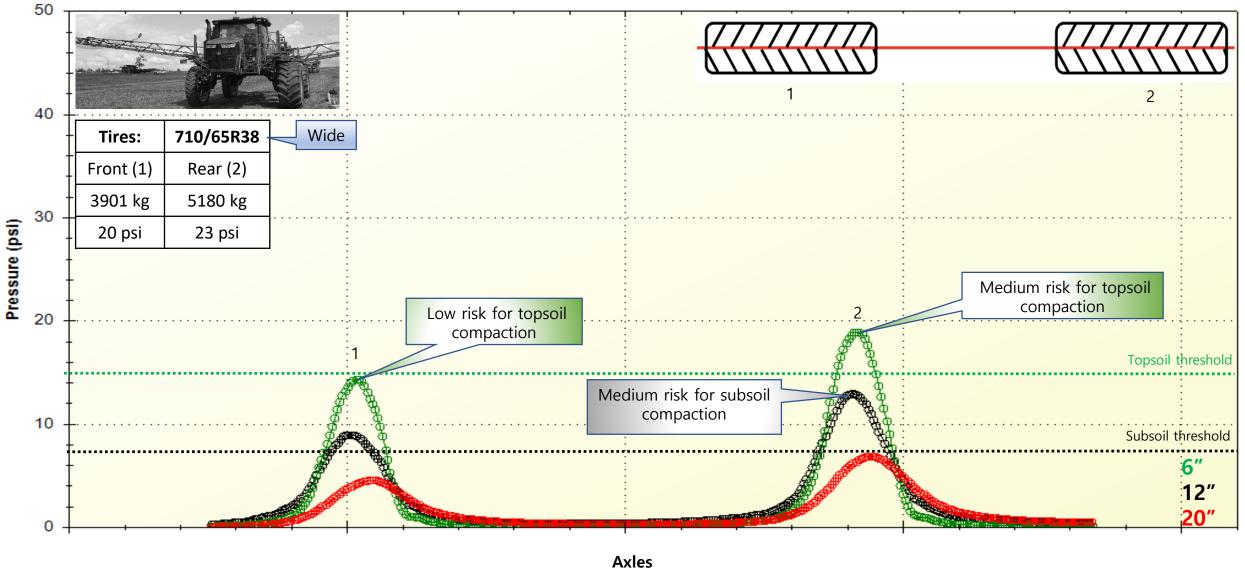
X: Off sensor, not measured.

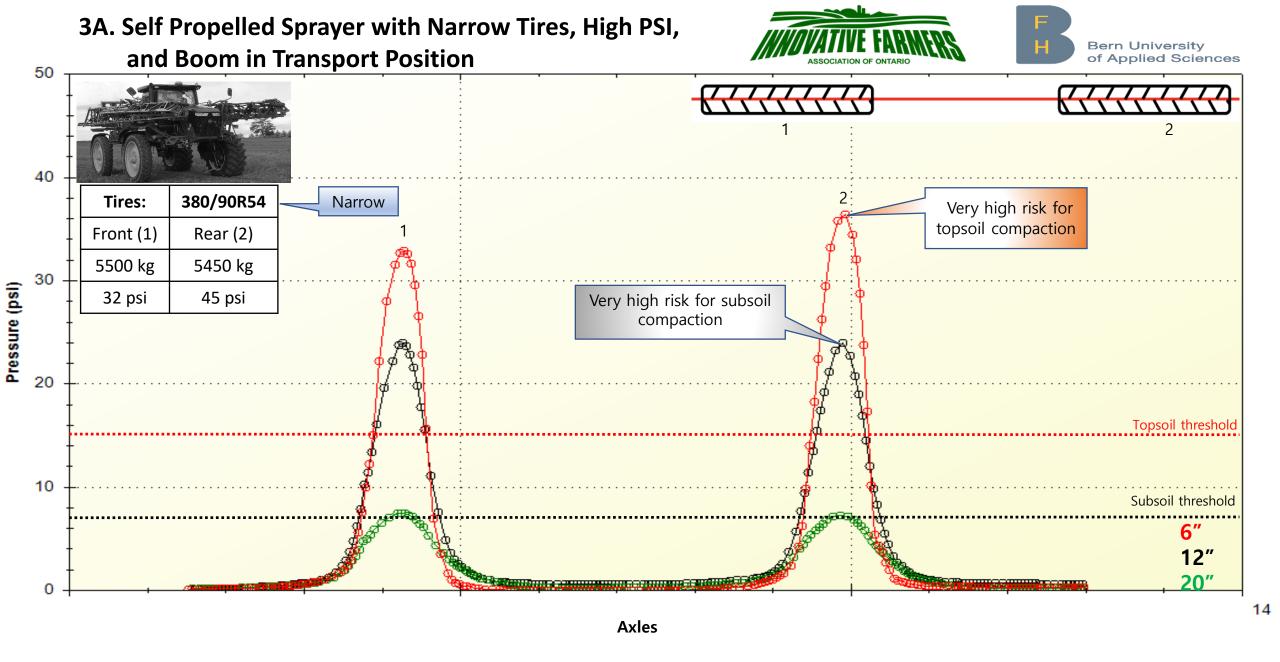










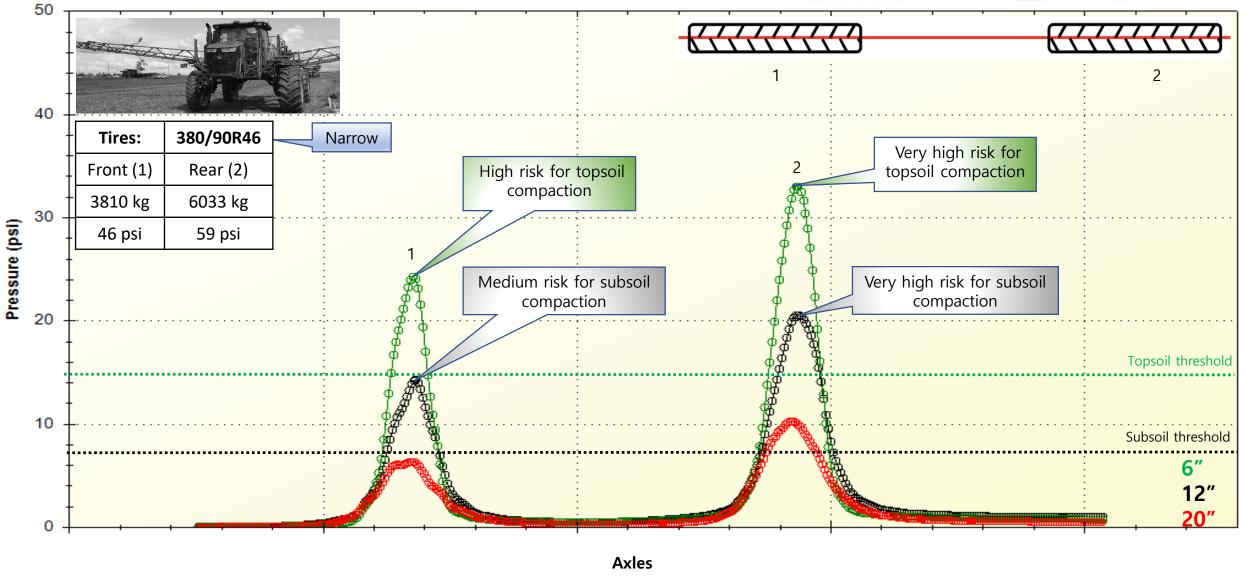


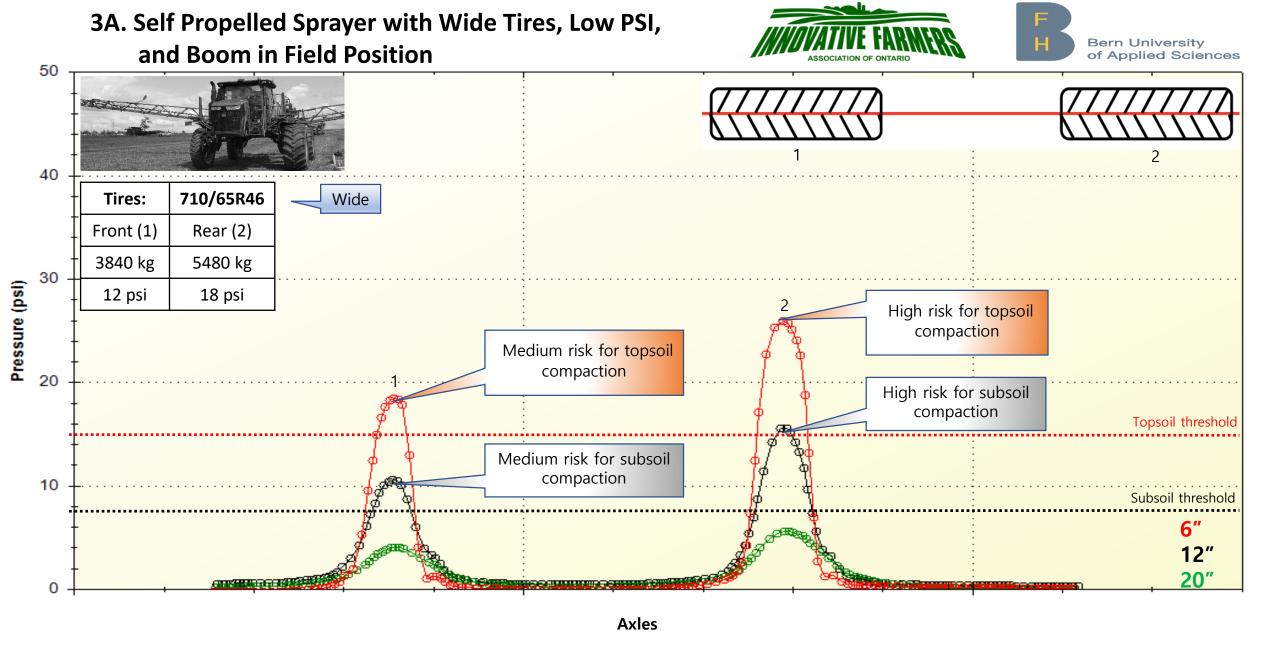
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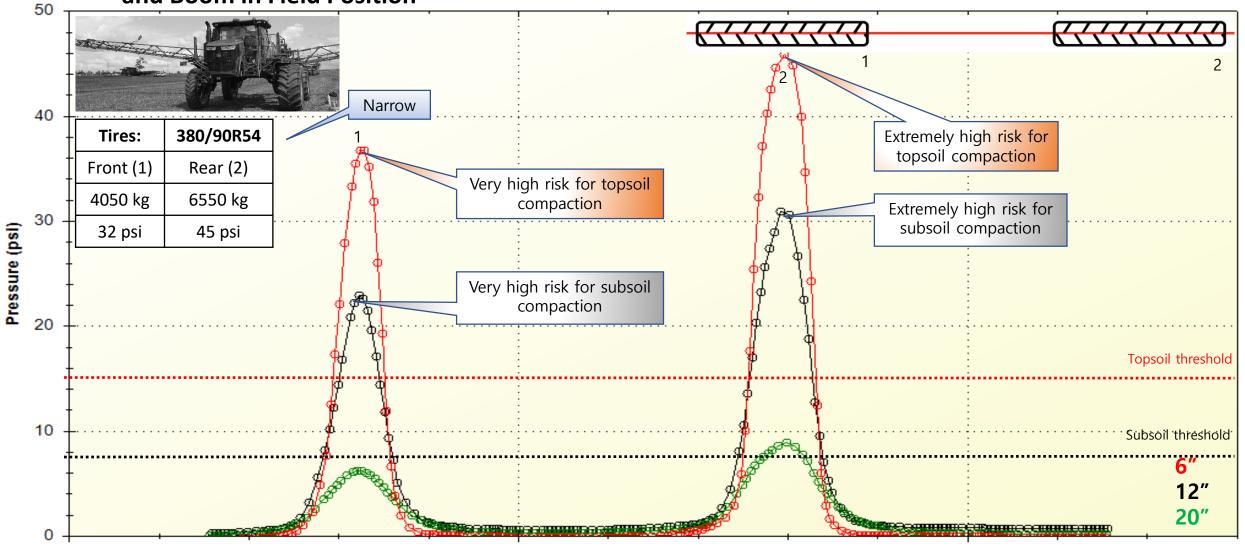




3A. Self Propelled Sprayer with Narrow Tires, High PSI, and Boom in Field Position





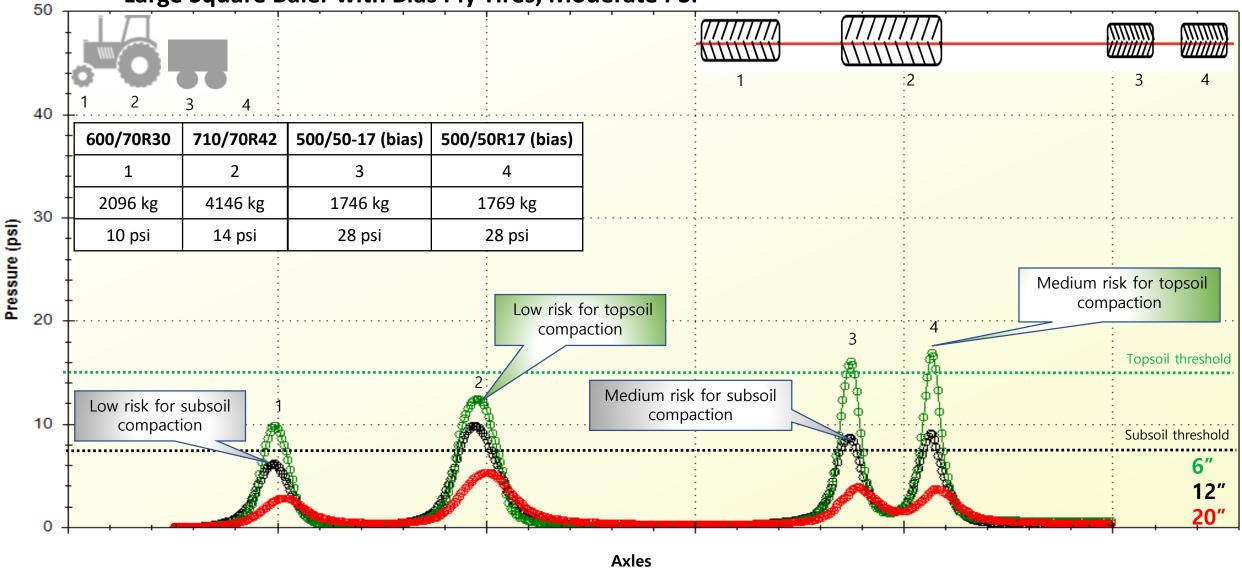


Axles

4A. Row Crop Tractor with Moderate Single Tires, Low PSI Large Square Baler with Bias Ply Tires, Moderate PSI







4A.PLWL 4A.ILWM

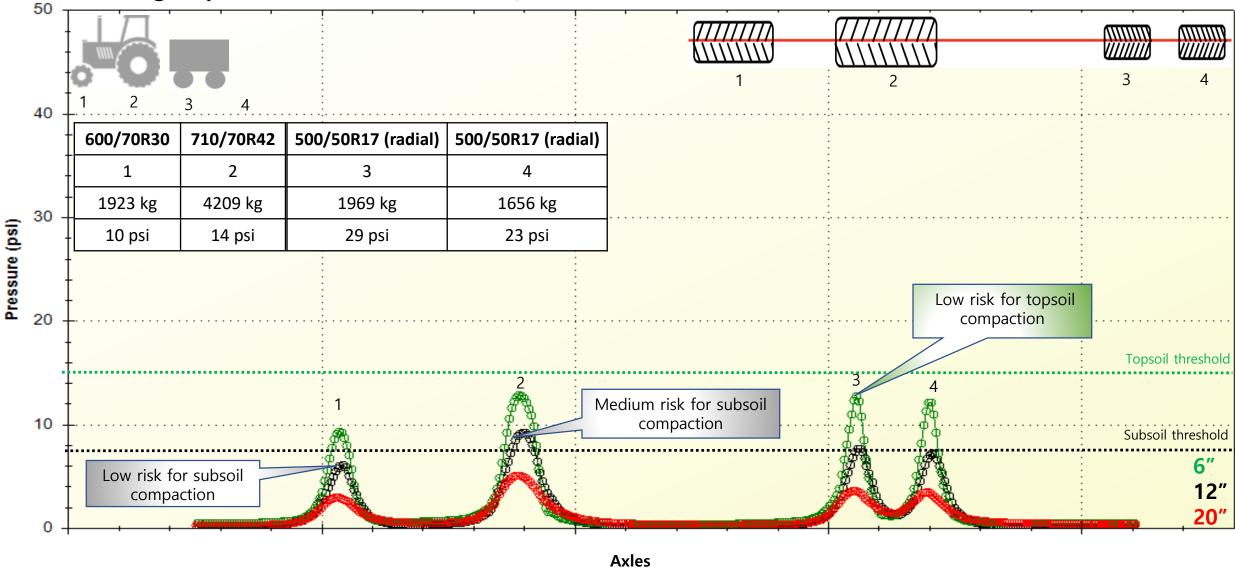
X: Off sensor, not measured.

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4A. Row Crop Tractor with Moderate Single Tires, Low PSI Large Square Baler with Radial Tires, Moderate PSI







4A.PRWL 4A.IRWM

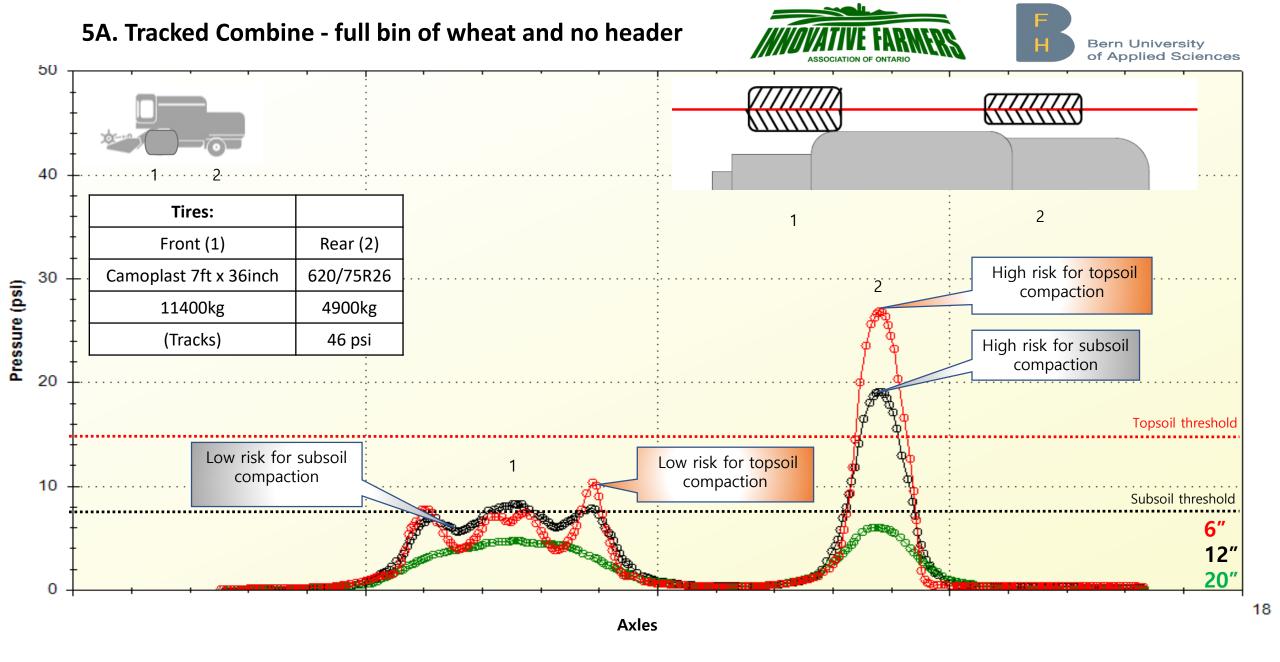
5A. Tracked Combine – full bin of wheat and 31' Corn Head Bern University of Applied Sciences Tires: Front (1) Rear (2) Camoplast 7ft x 36inch 620/75R26 14700 kg 3600 kg (Tracks) 46 psi High risk for topsoil compaction Low risk for topsoil Medium risk for subsoil compaction compaction

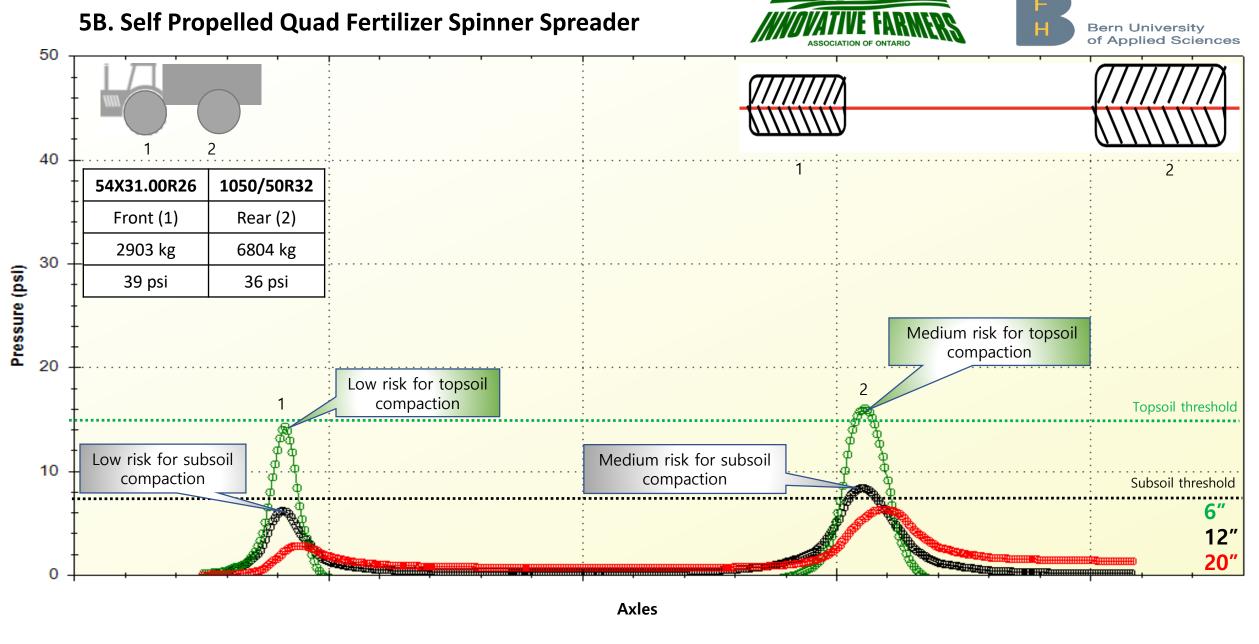
Pressure (psi) Topsoil threshold 10 Subsoil threshold **Axles**

X: Off sensor, not measured.

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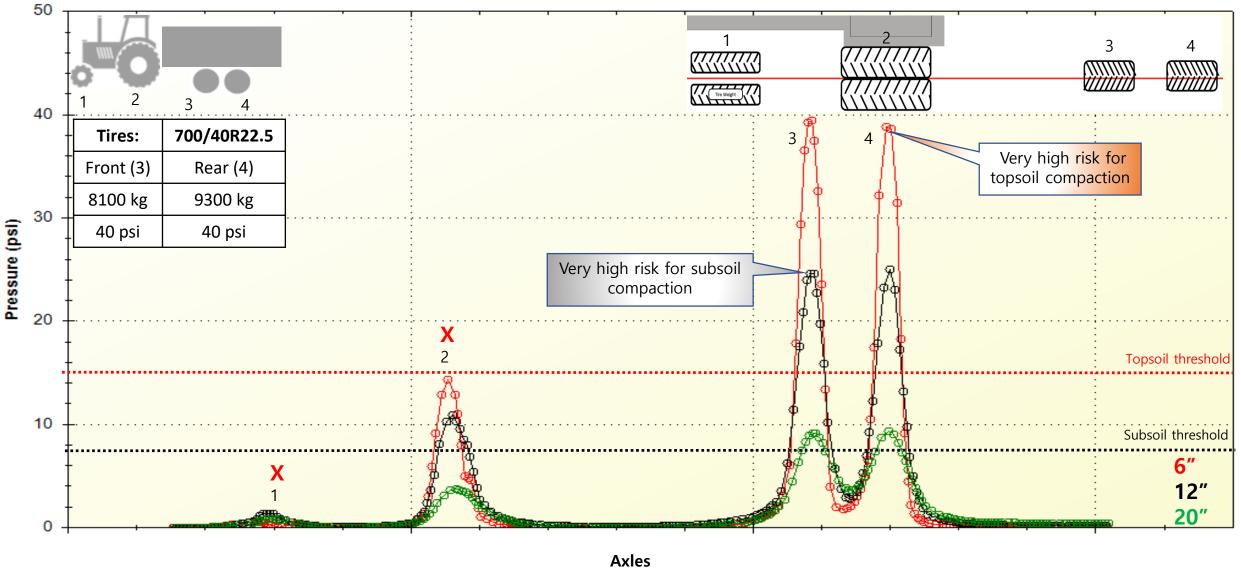








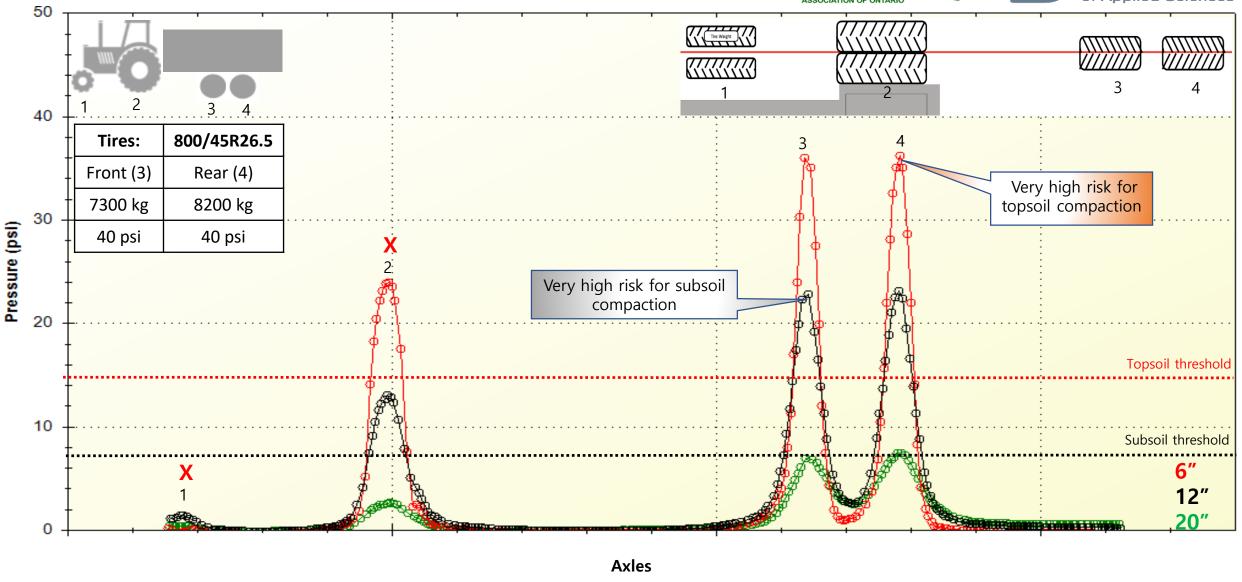


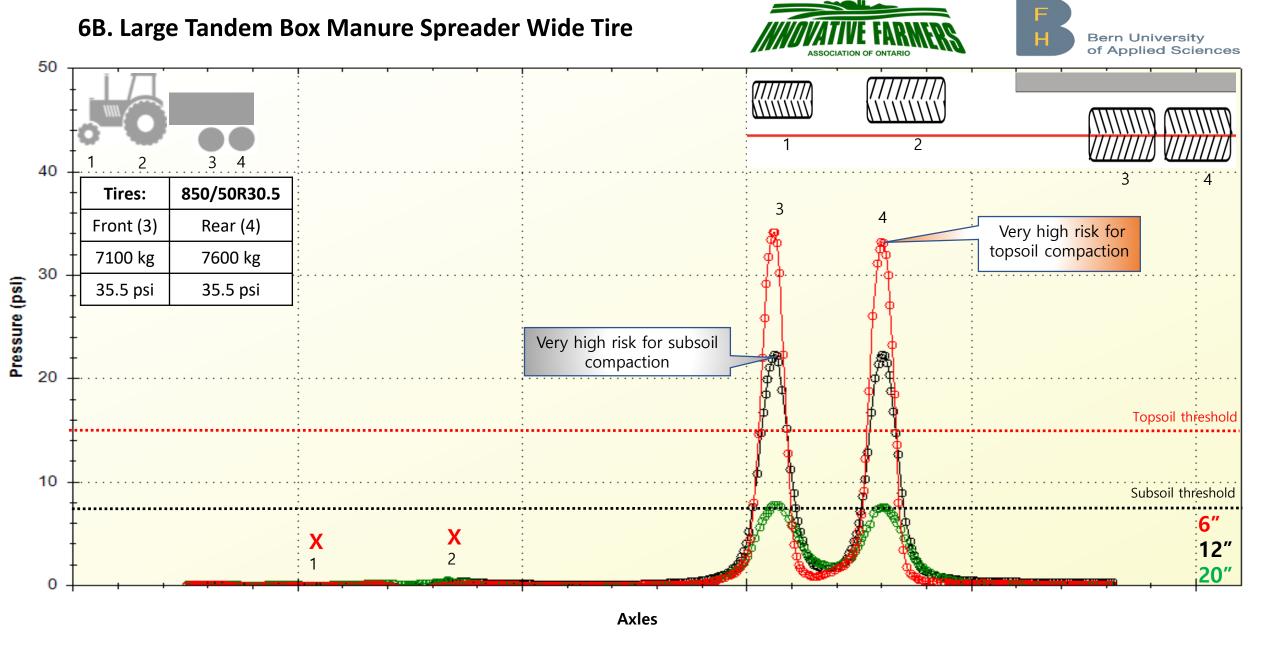


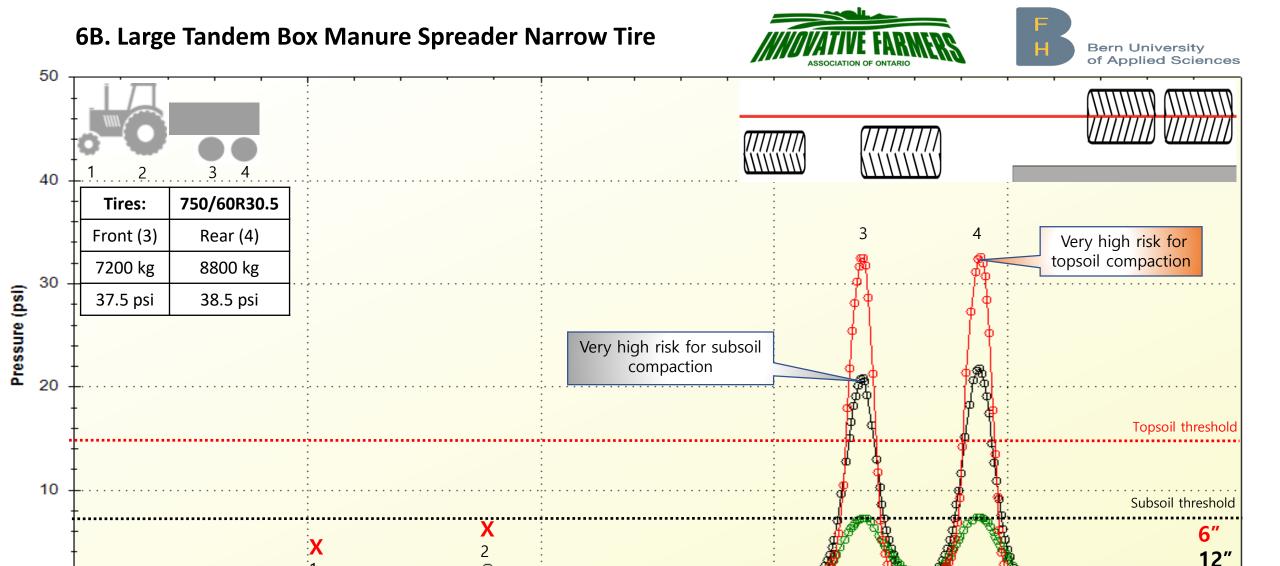












Axles

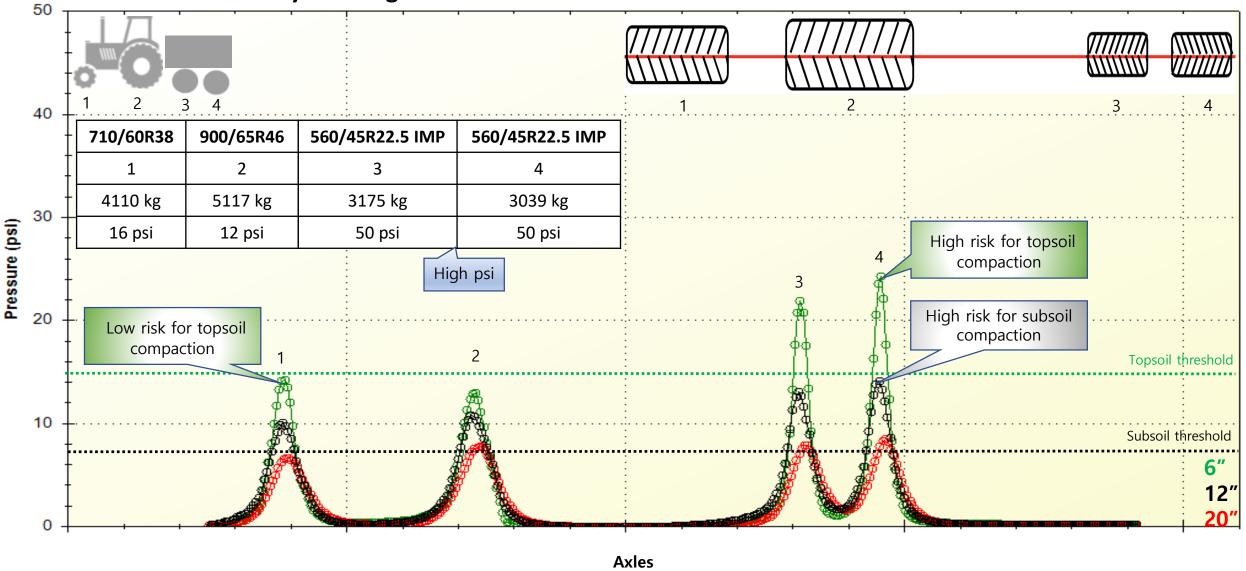
X: Off sensor, not measured.

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7A. High HP Row Crop Tractor w Large Square Baler with Inflation System High PSI



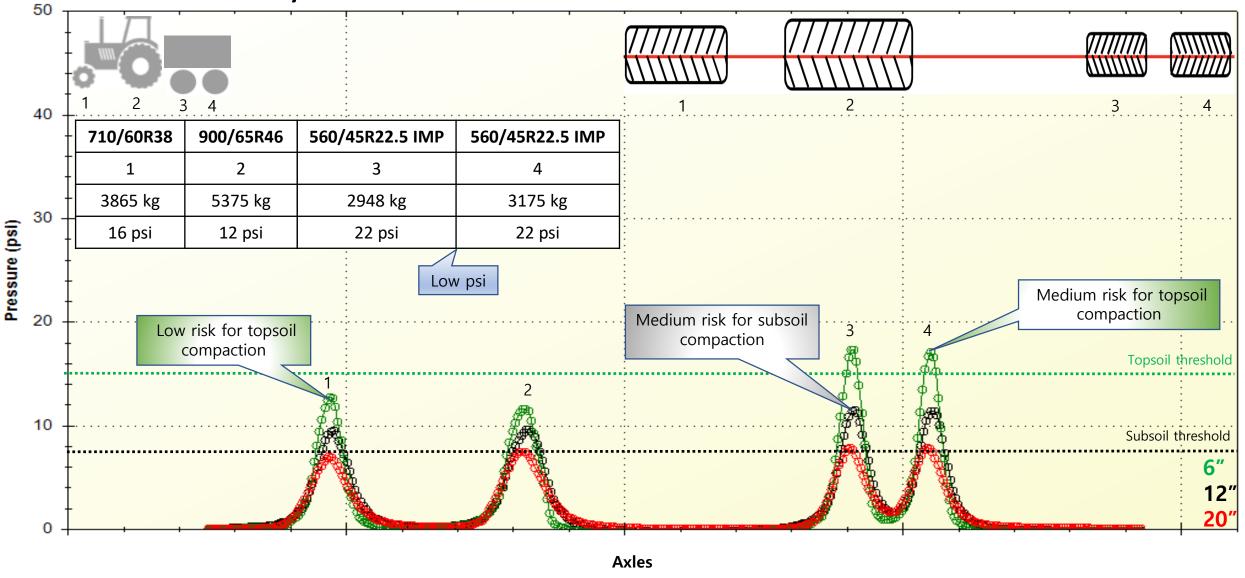




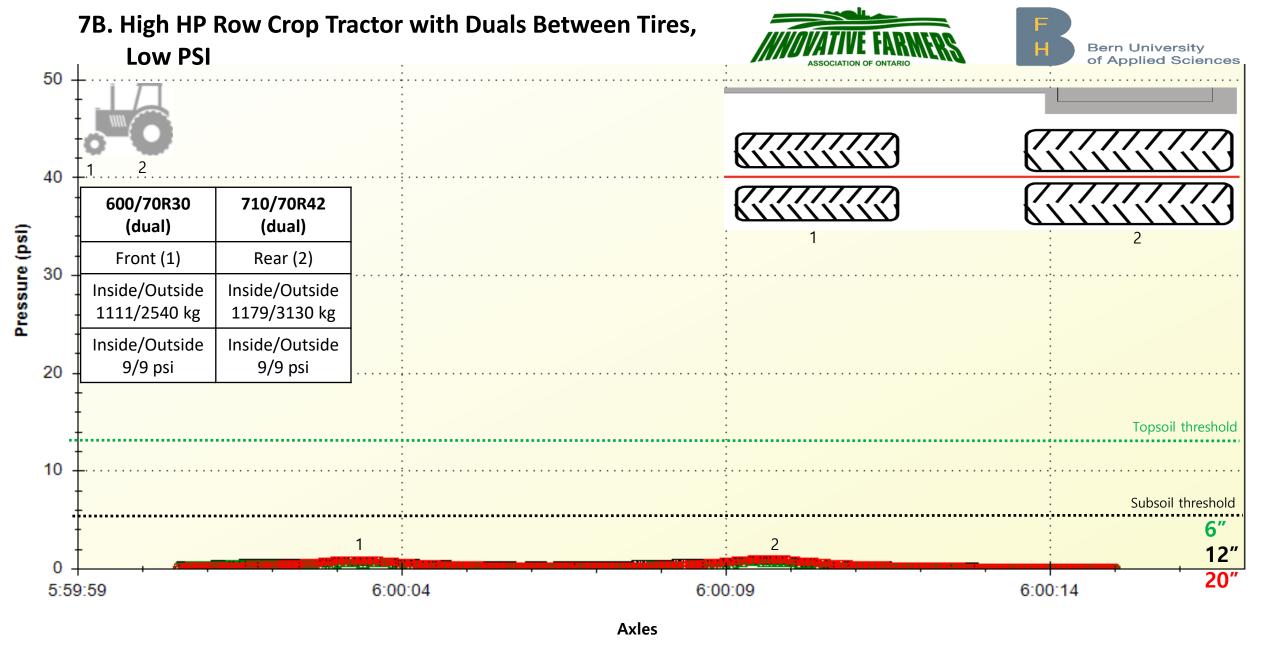
7A. High HP Row Crop Tractor w Large Square Baler with Inflation System Low PSI

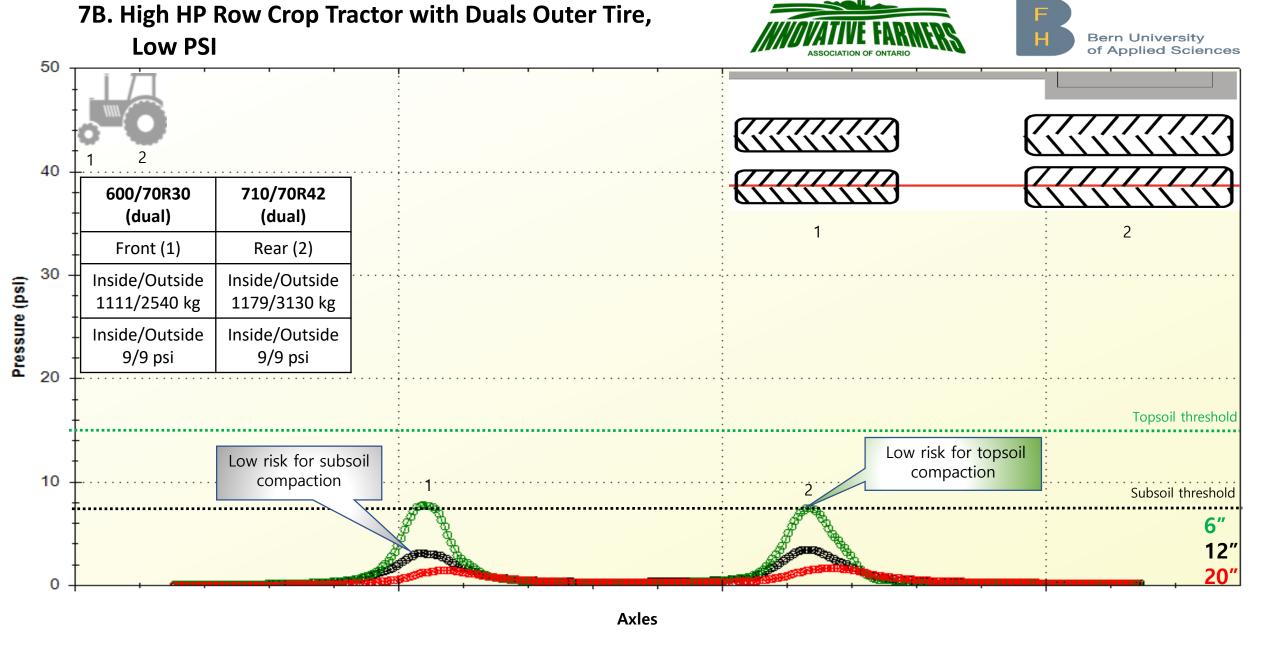


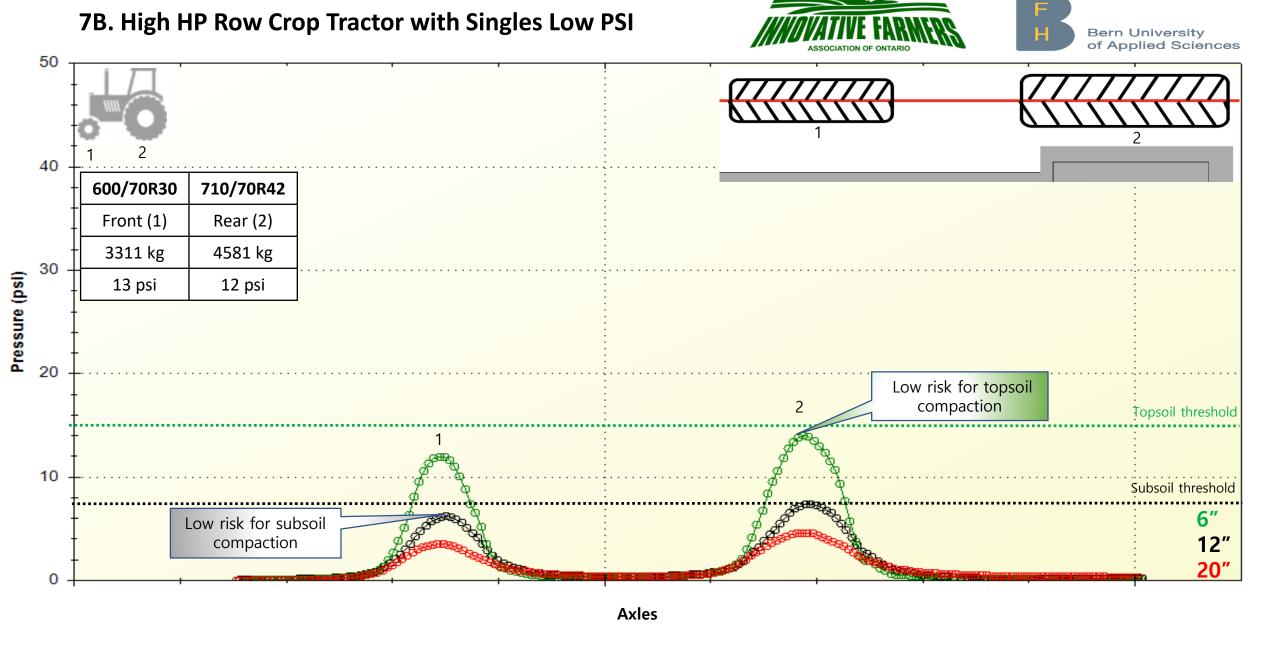


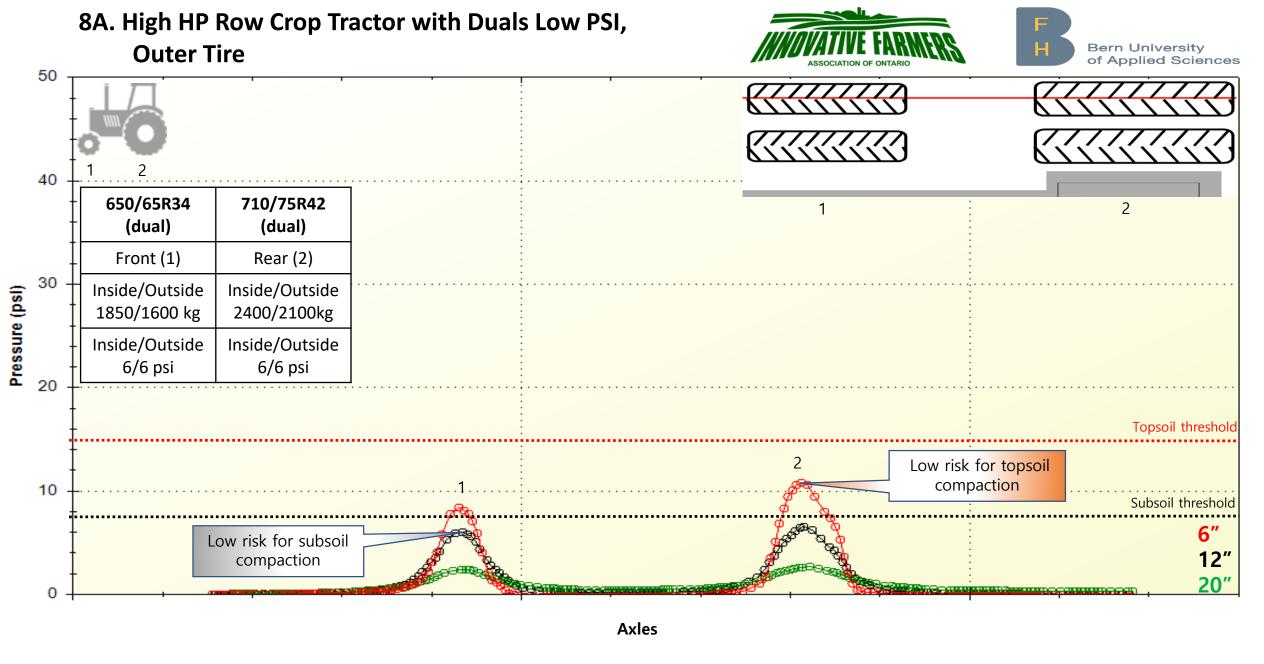


X: Off sensor, not measured.





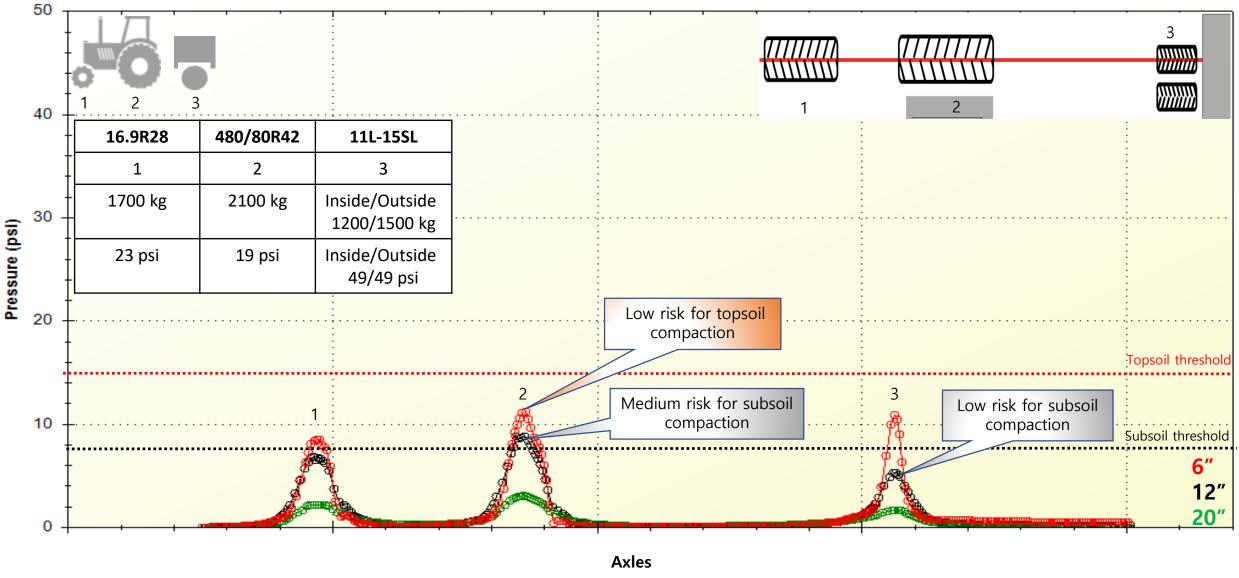




8B. Mid HP Row Crop Tractor with Grain Drill







8B.PRMM 8B.IRNH

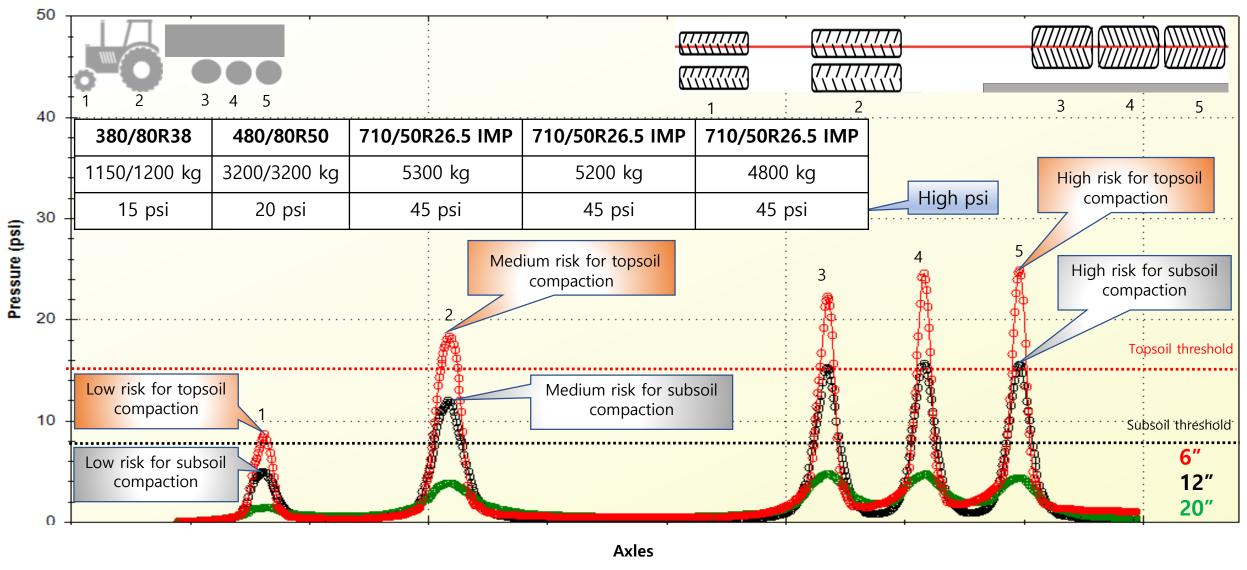
X: Off sensor, not measured.

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9A. High HP Row Crop Tractor with Tri Axle Box Manure Spreader with Inflation System High PSI



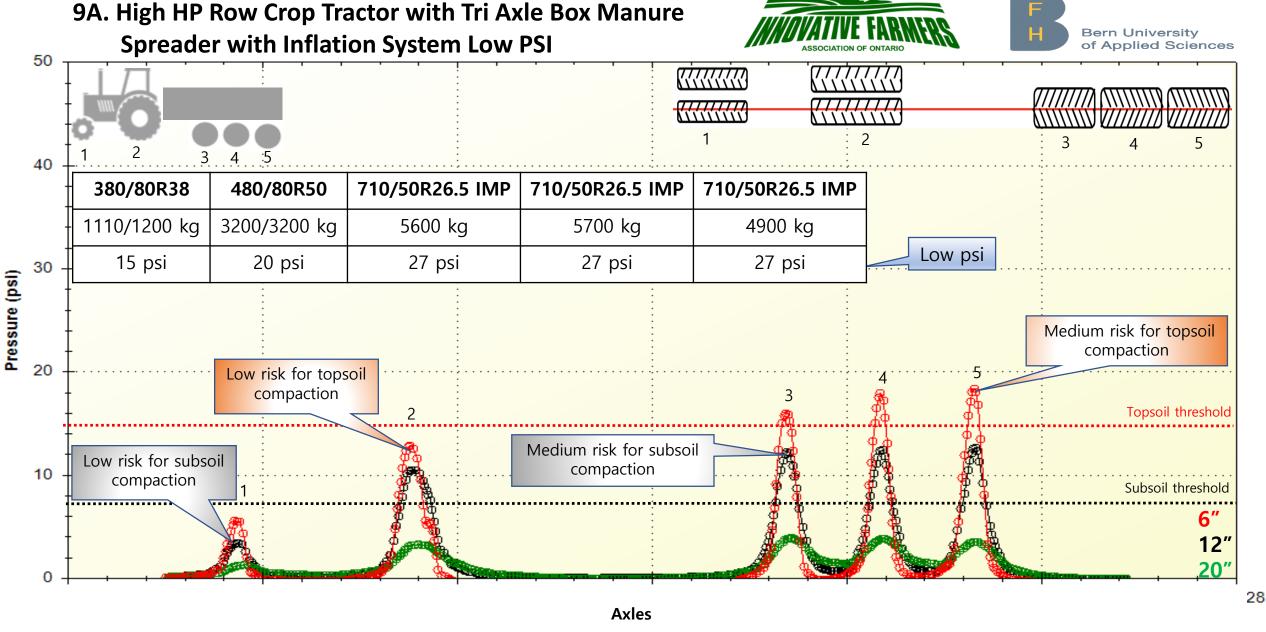




9A.PRWH 9A.PIMH

X: Off sensor, not measured.

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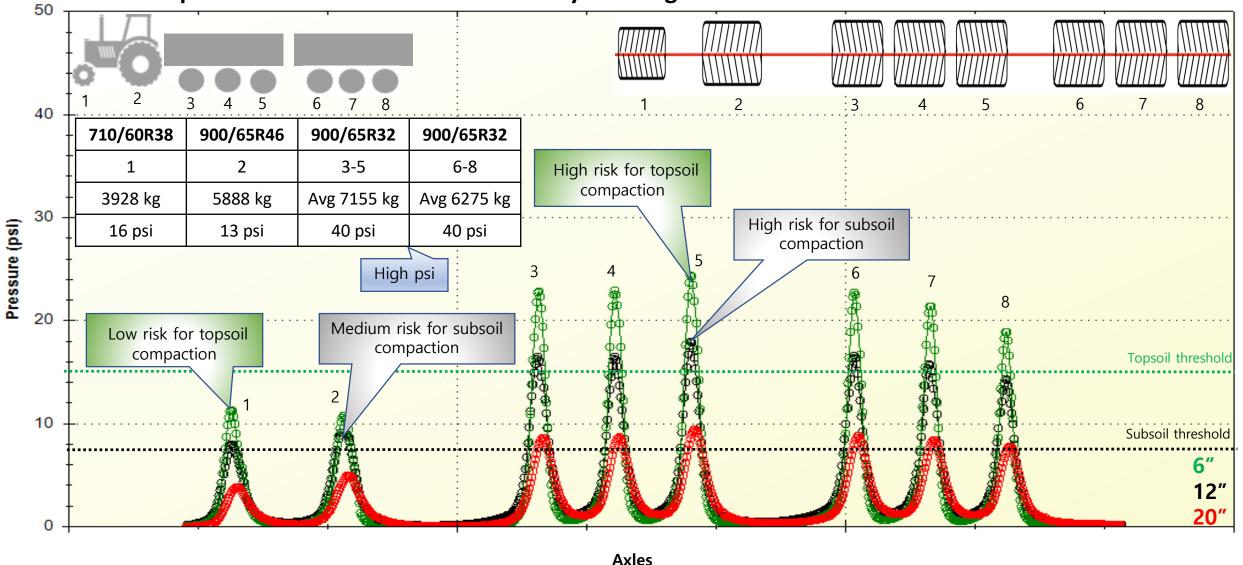


9A.PRWL 9A.ILMH

10A. High HP Row Crop Tractor with Singles and Quad Steer Dual Liquid Manure Tanker with Inflation System High PSI





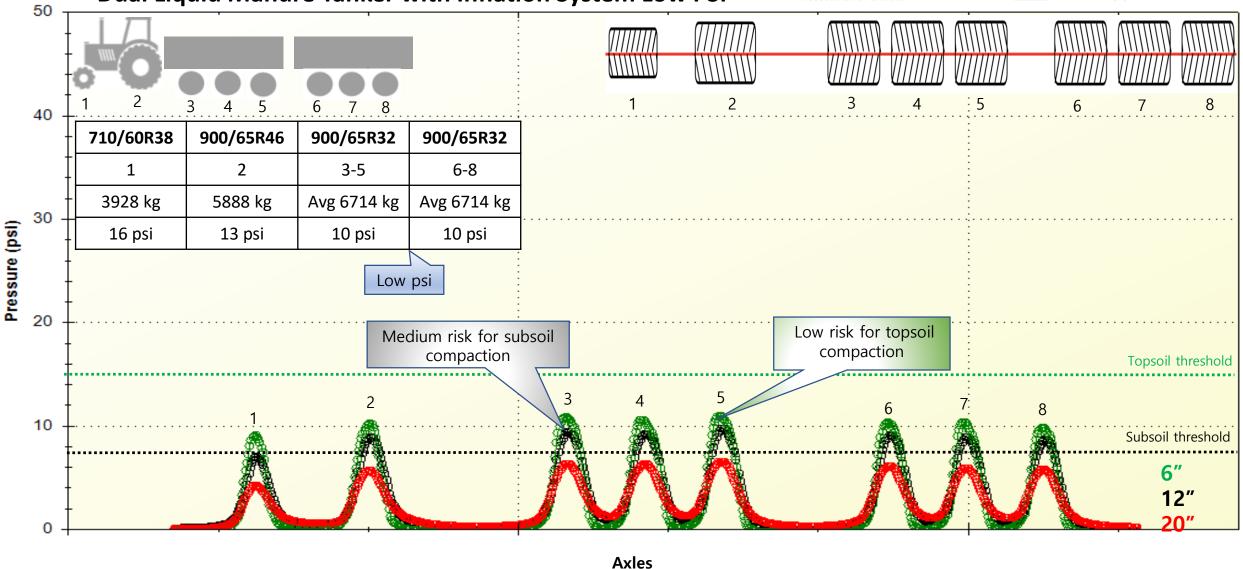


10A.PLWL 10A.ILWL

10A. High HP Row Crop Tractor with Singles and Quad Steer Dual Liquid Manure Tanker with Inflation System Low PSI

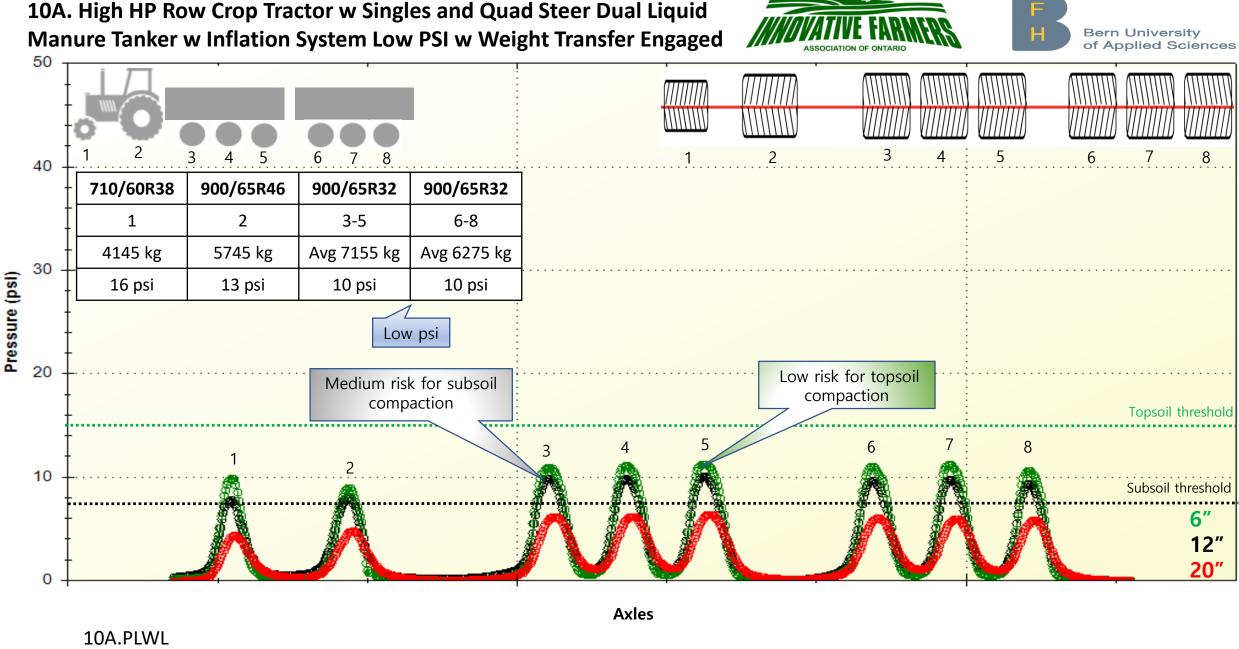






10A.PRWL

10A.IRWL



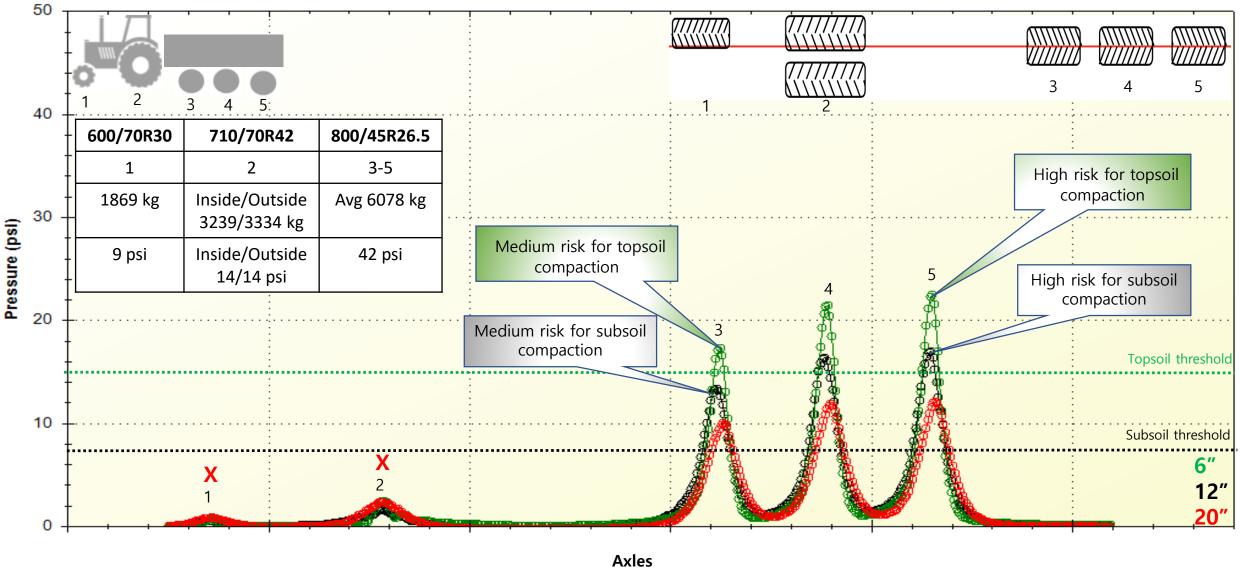
10A.ILWL

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12A. Tri Axle Silage Dump Trailer





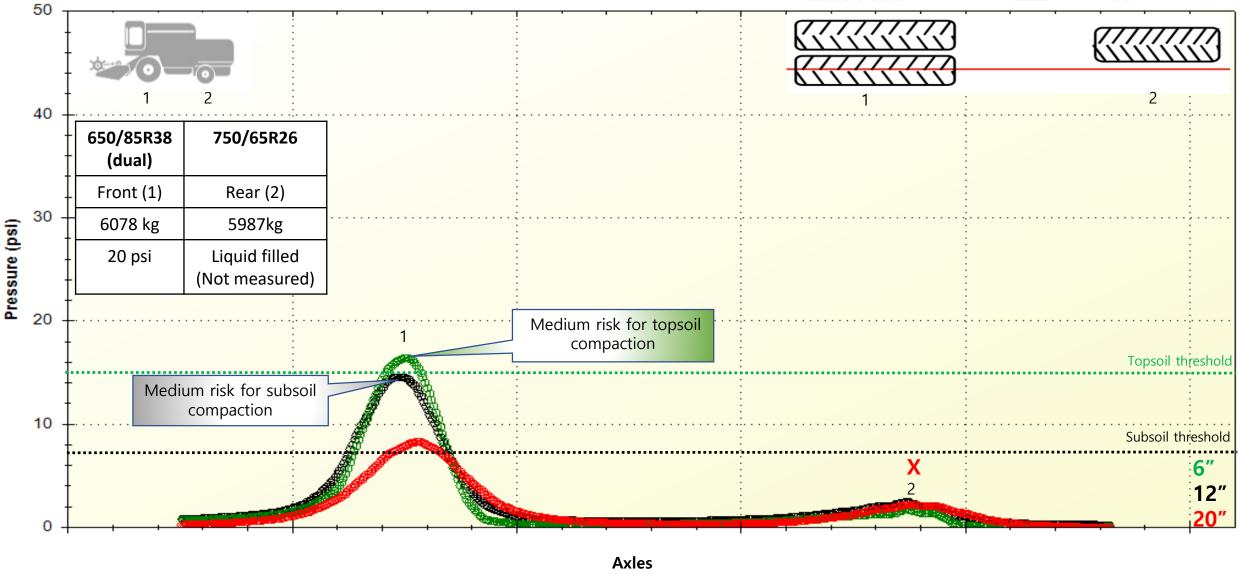


X: Off sensor, not measured.

13A. Combine with Duals 20 PSI





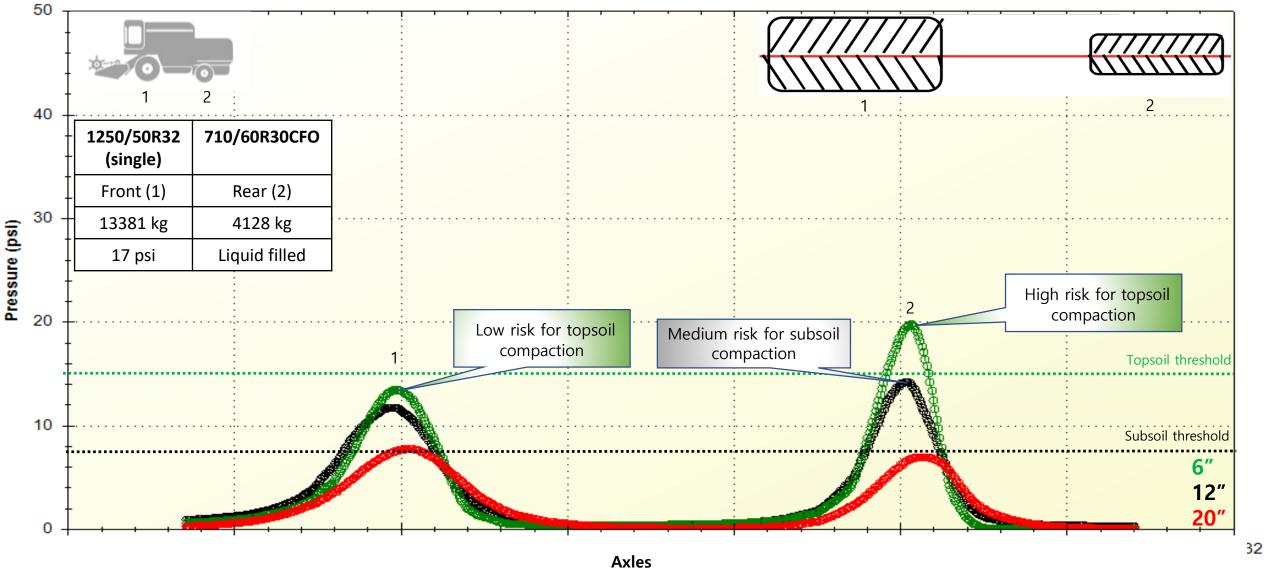


X: Off sensor, not measured.





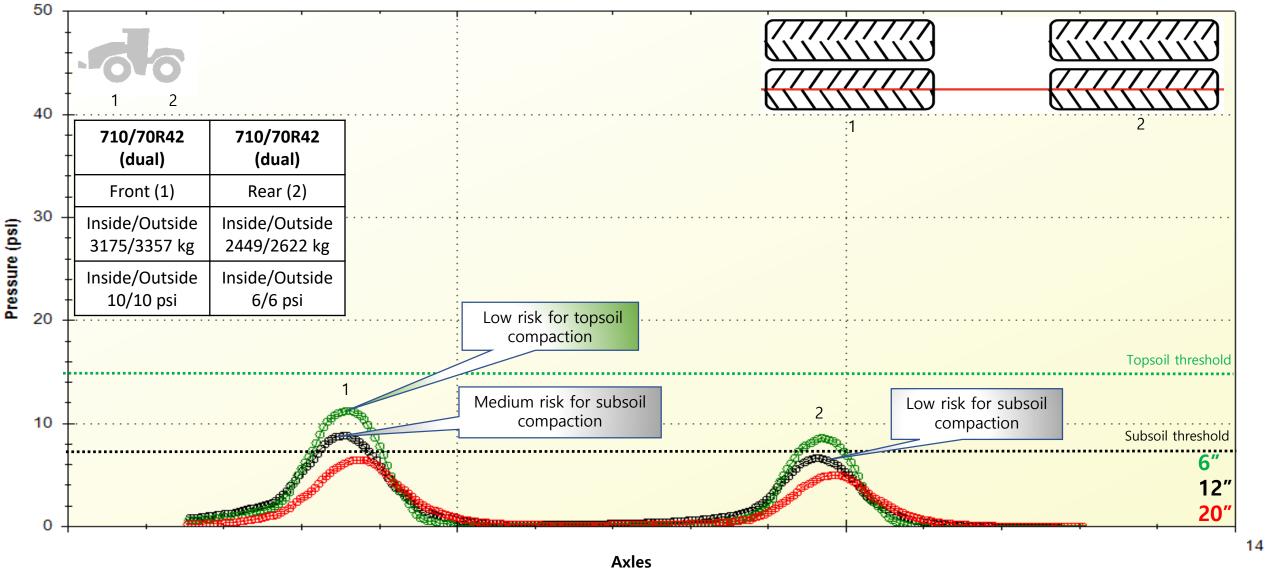




14A. Large 4WD Articulating Tractor with Duals Low PSI





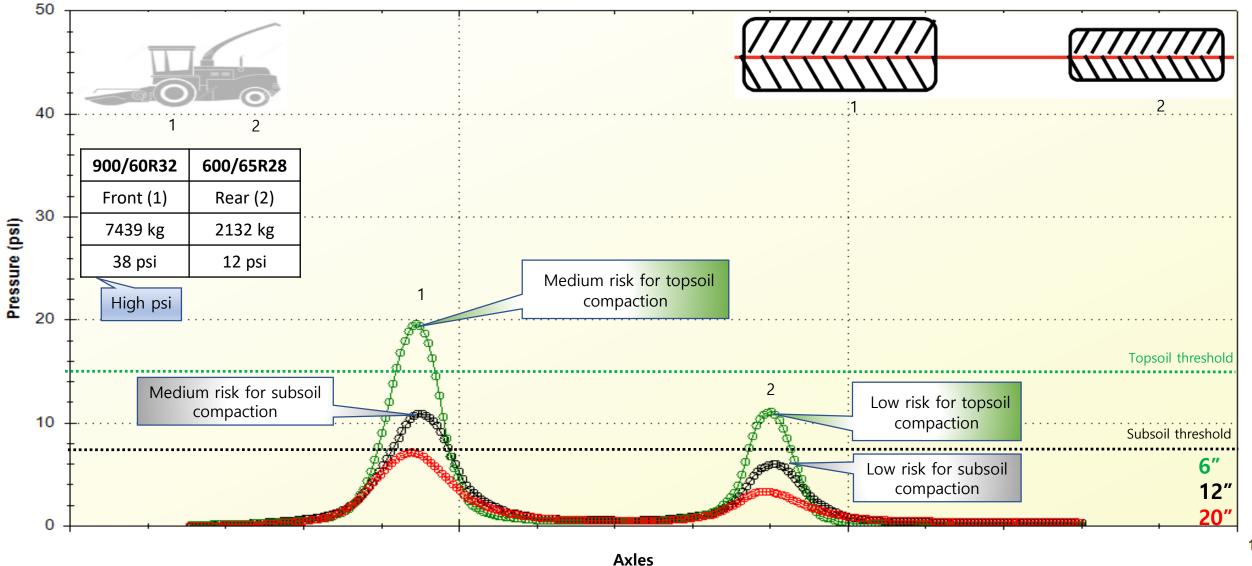


X: Off sensor, not measured.

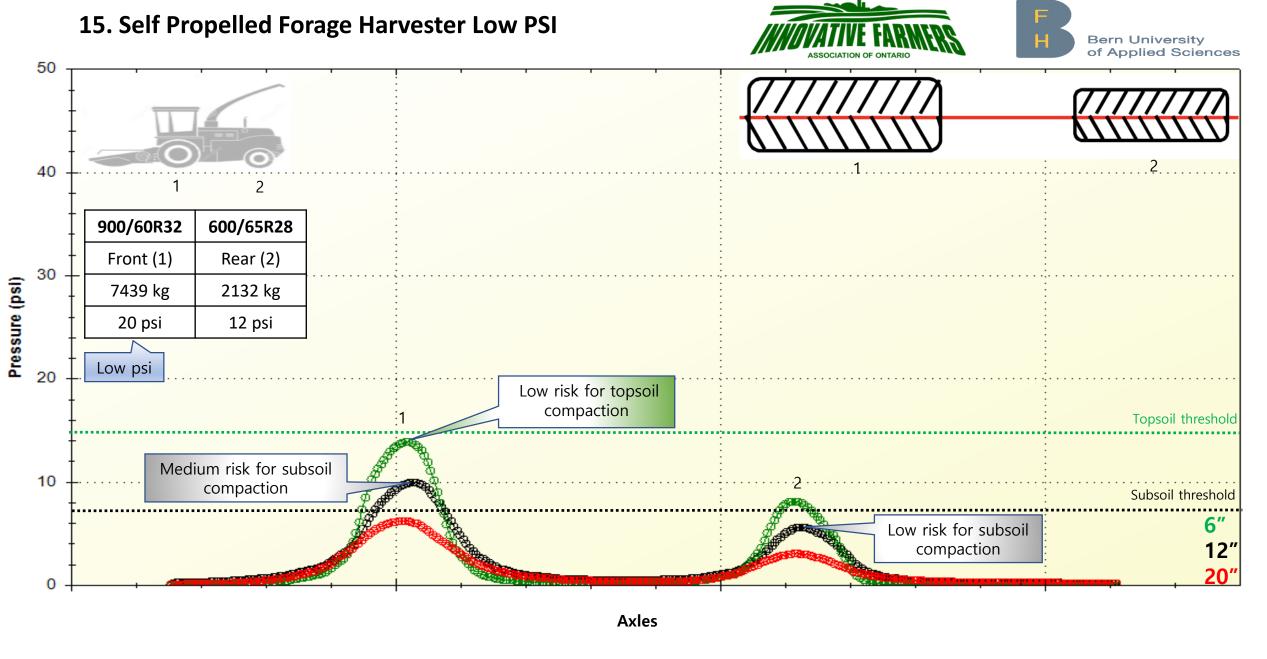
15. Self Propelled Forage Harvester High PSI

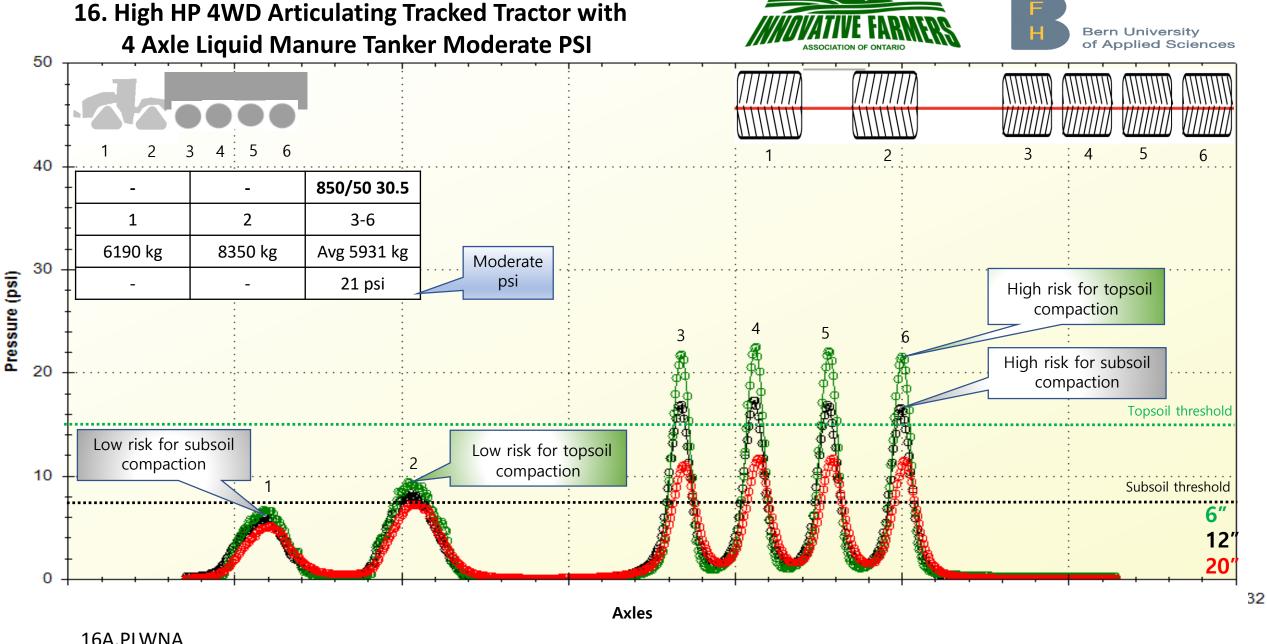






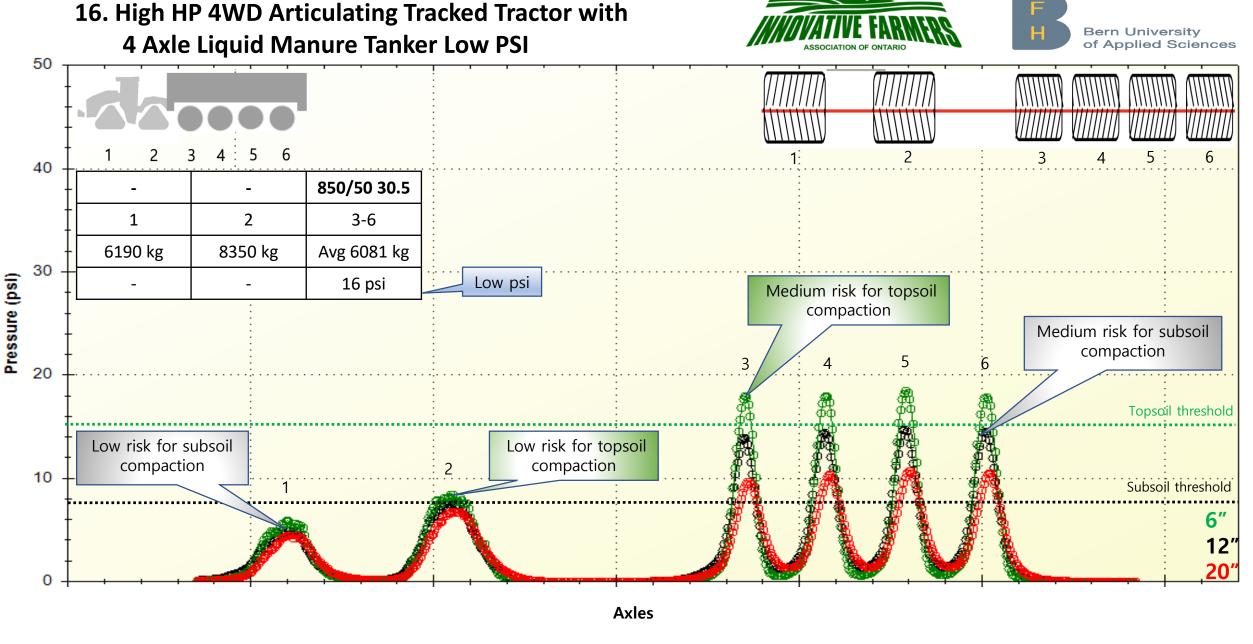
X: Off sensor, not measured.





16A.PLWNA 16B.ILWM

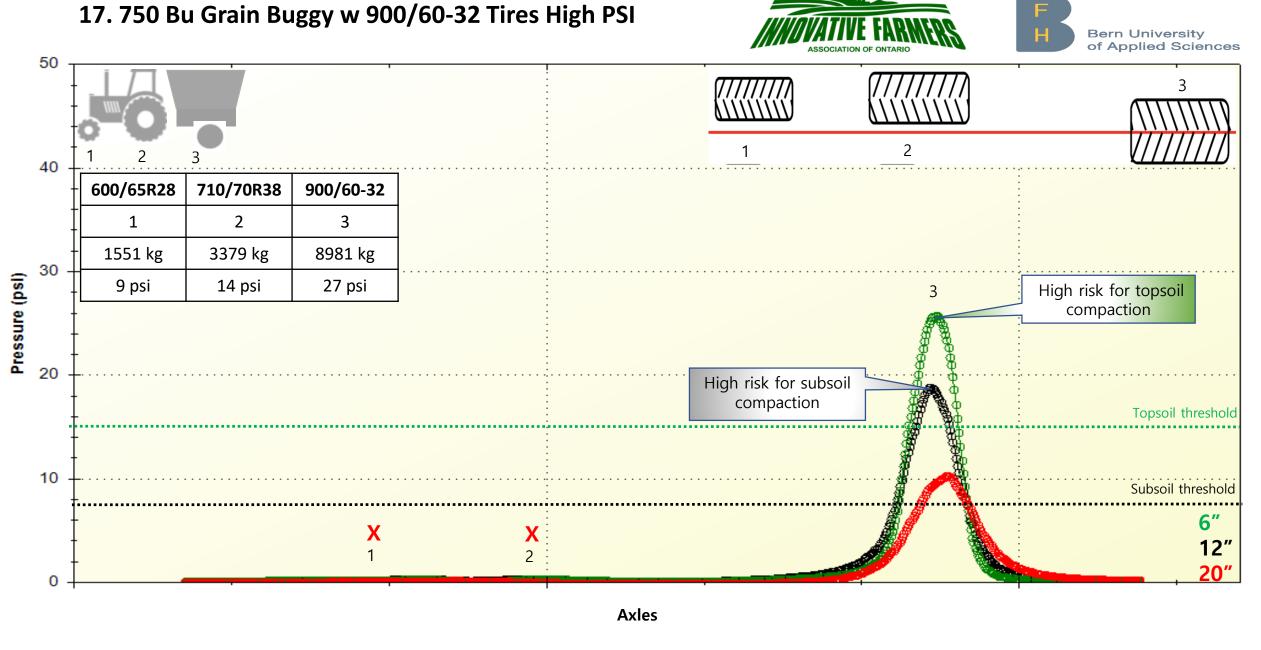
X: Off sensor, not measured.



16A.PLWNA 16B.ILWL

X: Off sensor, not measured.

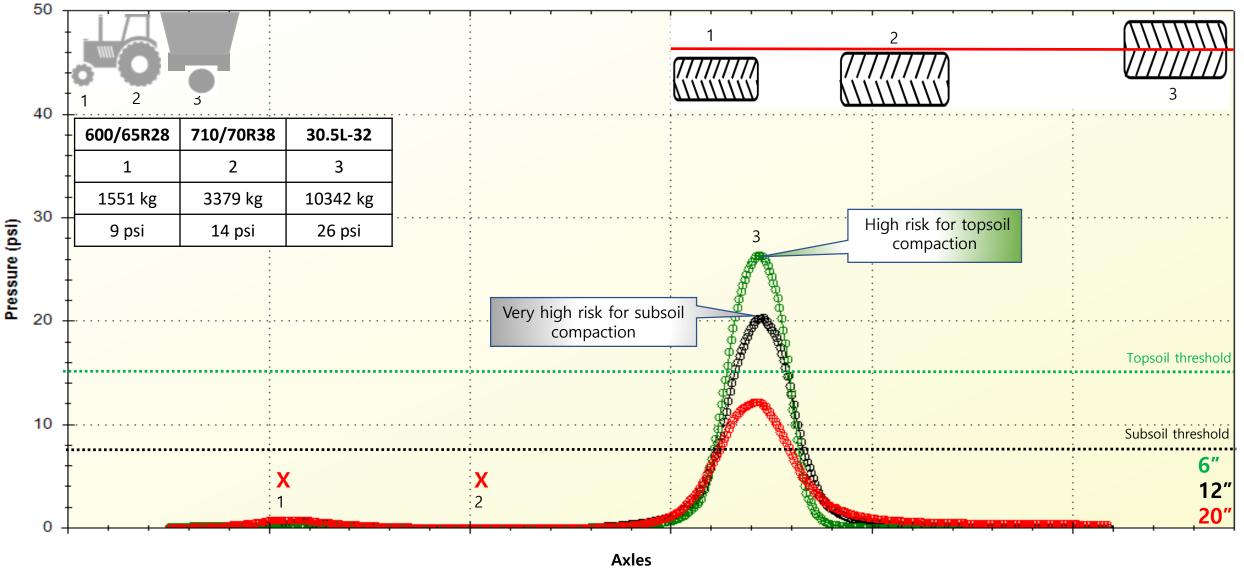
Disclaimer: This is to be used for discussion & comparison purposes only. Videos and info available at www.ifao.com



17. 750 Bu Grain Buggy w 30.5L-32 Tires High PSI





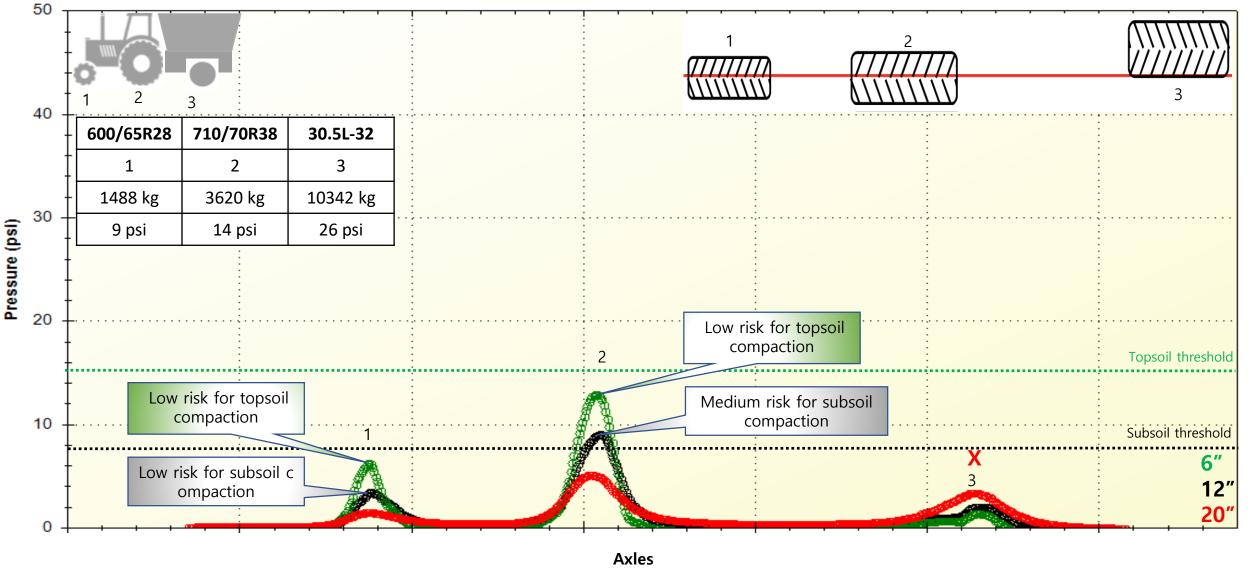


X: Off sensor, not measured.

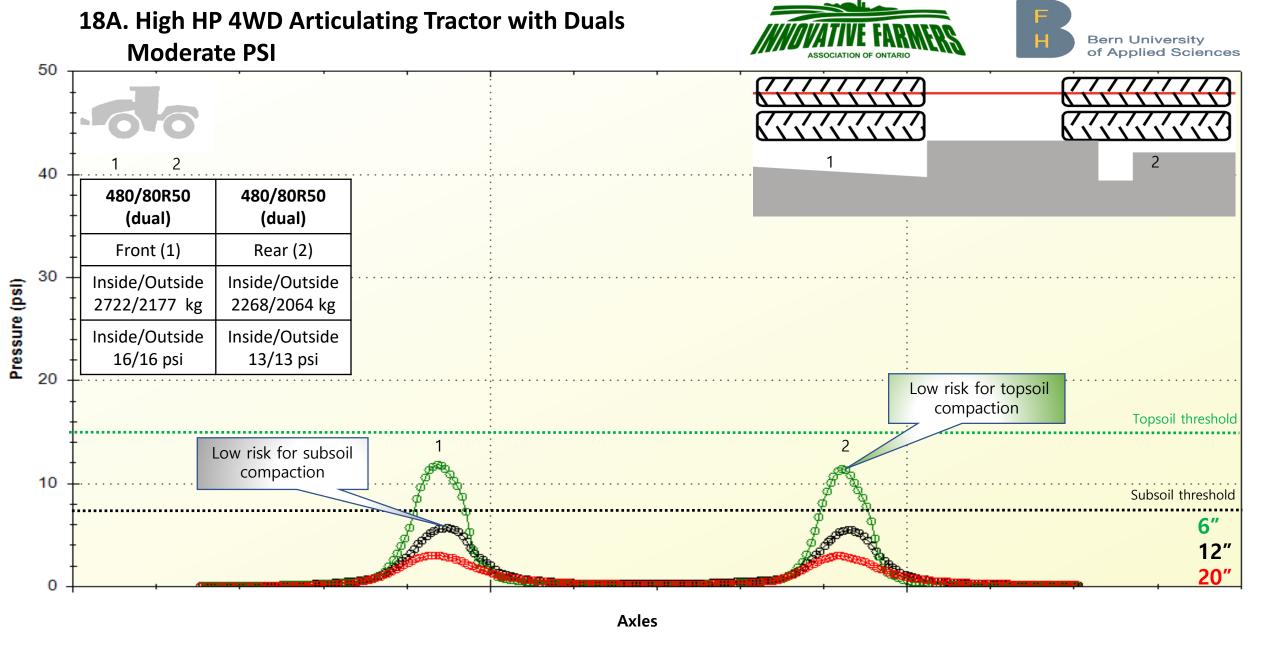
17. Mid HP FWD Row Crop Tractor with Singles







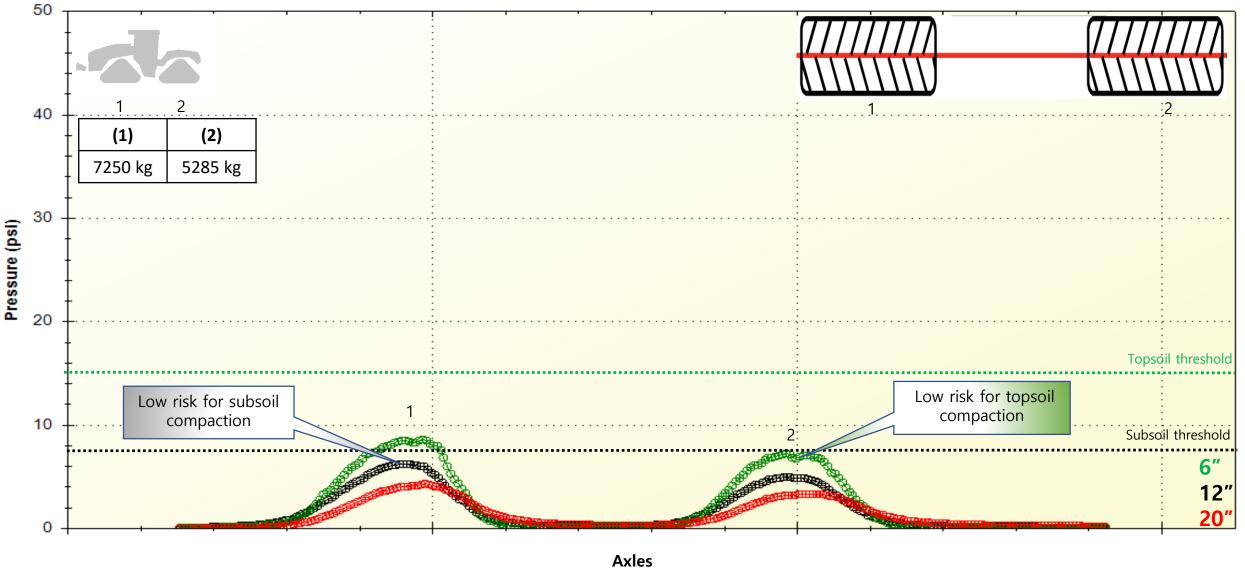
X: Off sensor, not measured.



18A. High HP 4WD Articulating Tractor with Tracks





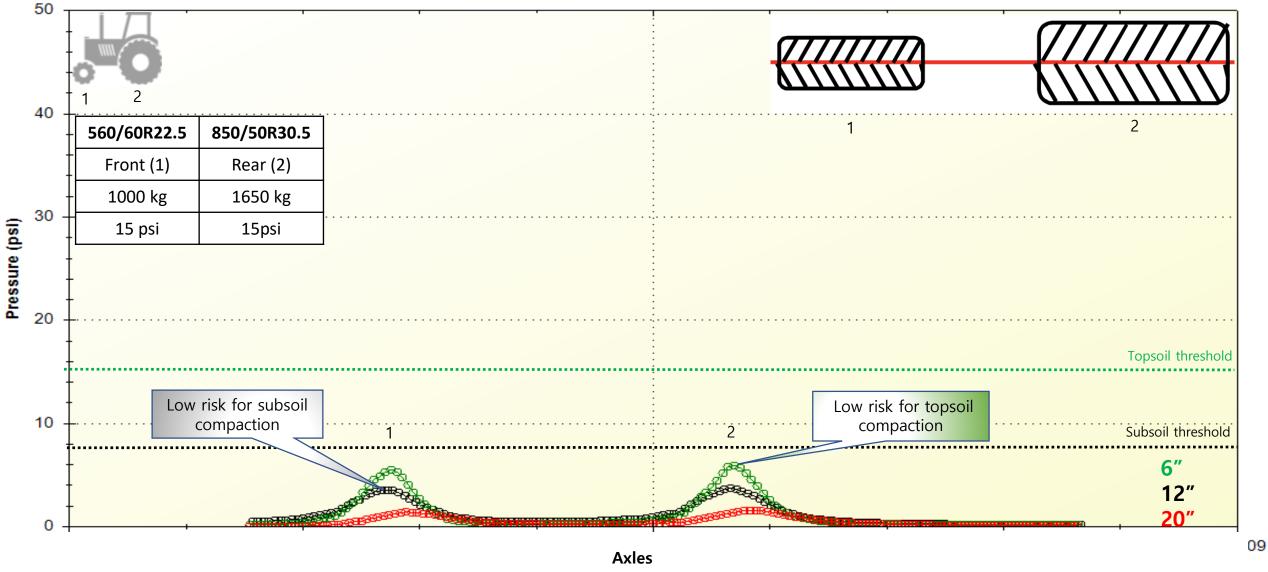


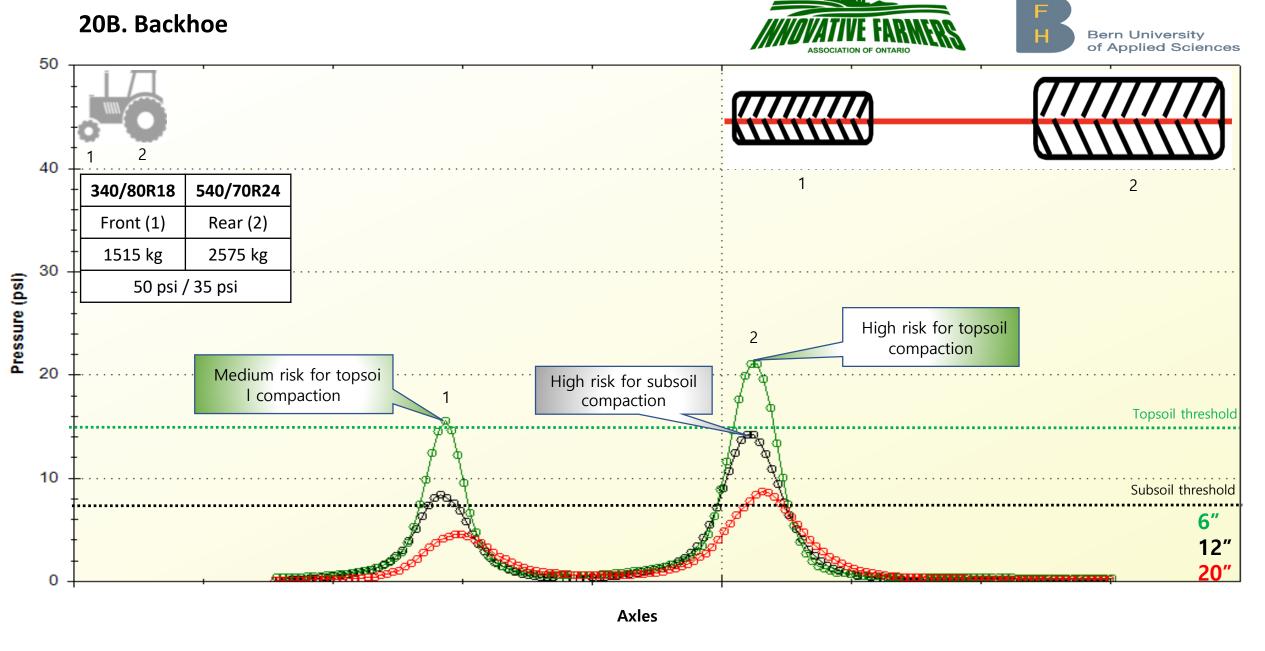
X: Off sensor, not measured.

19. Small Row Crop Tractor w Large Tires





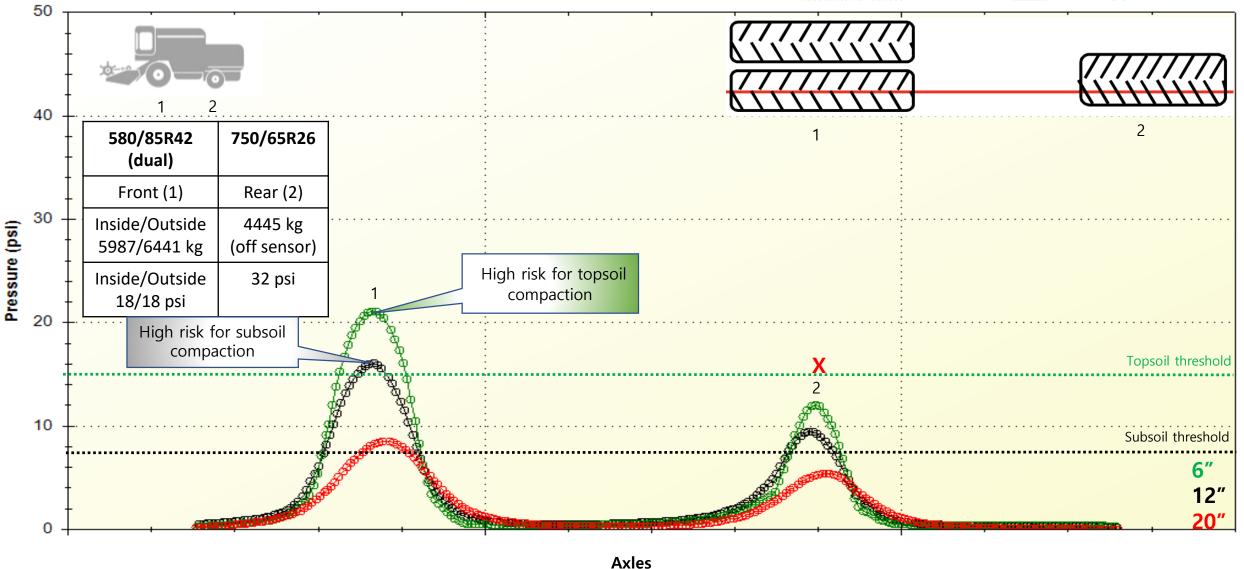




21B. Combine with Duals Moderate PSI





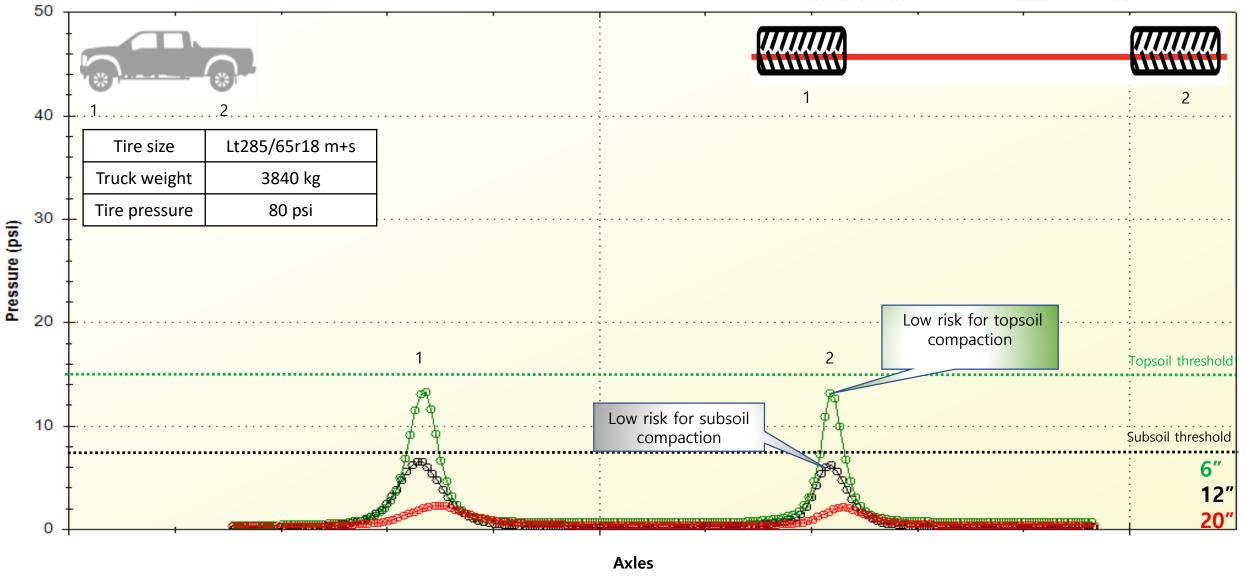


X: Off sensor, not measured.

24A. 4WD Pickup Truck with Empty High PSI







X: Off sensor, not measured.







