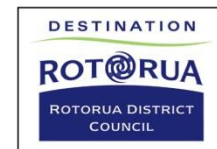


NDA Allocation in OVERSEER Version 6.2.0

Lake Rotorua Stakeholder Advisory Group
18 August 2015

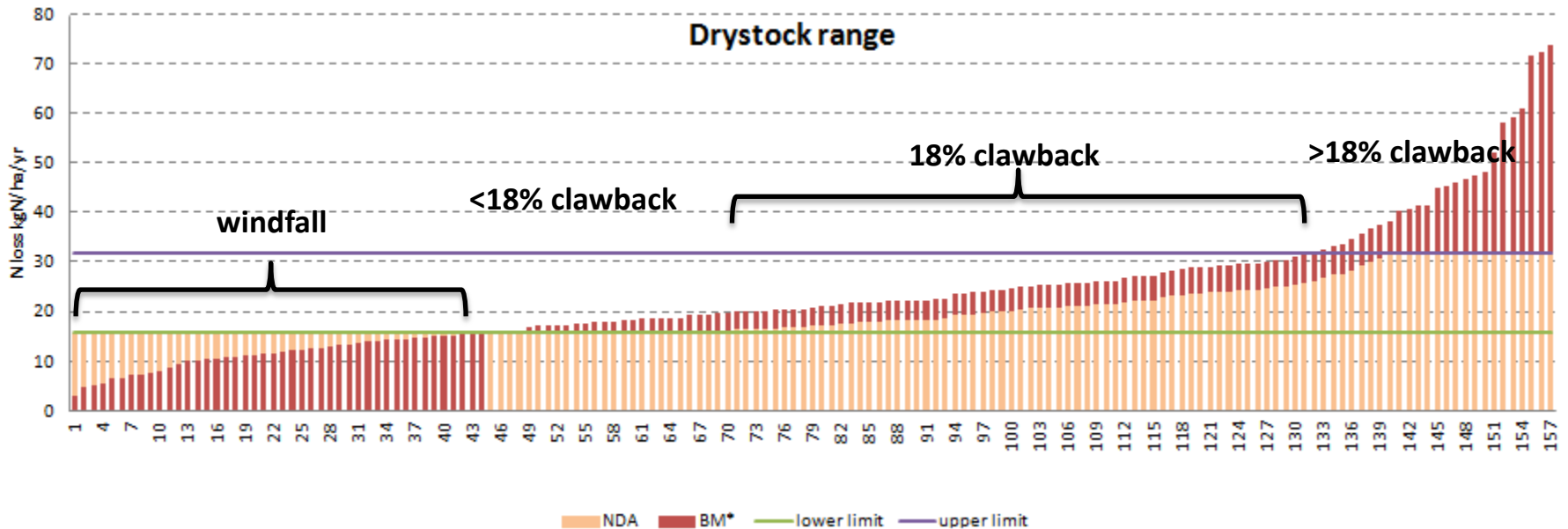
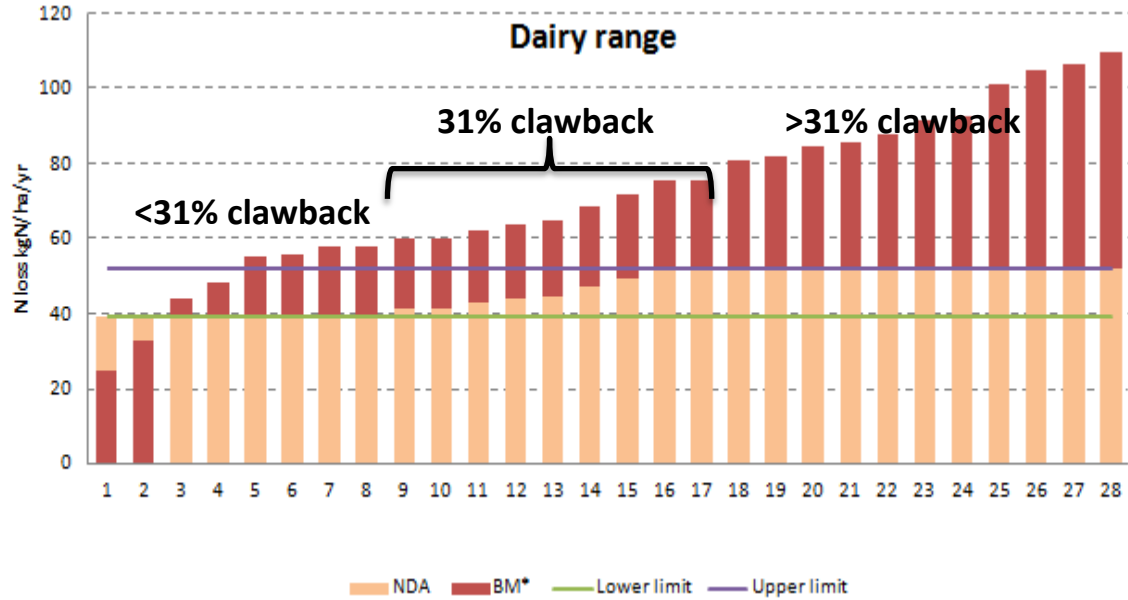


Proud Partners



6.1.3 ranges: drystock 16-32; dairy 39-52

- Converted from v5
- Developed via StAG March-June 2015
- Integrated Framework sector reductions
- Limits influenced by draft economics analysis



Converting sector loads to 6.2.0

Method:

- Almost all Benchmark files converted to 6.2.0
- Grazed trees get their BM, not sector minimum
- Non-BM land gets sector average BM
 - 8 dairy farms with no files get pro-rata BM (< average dairy BM)
- Maintain Integrated Framework sector reductions:
 - ↓17.2% drystock, ↓35.3% dairy relative to total “sector BM”

Sector	Area (ha)	Average “benchmark” (kgN/ha/yr)	Catchment Load (tN/yr)	Sector reduction %	Reduction from sector (tN/yr)	Revised 2032 sector allocation (tN/yr)	Avg. NDA <u>assuming same area</u> (kgN/ha/yr)
Dairy	5016	99.7	500	35.3%	177	324	64.5
Drystock	16266	30.9	503	17.2%	86	416	25.6
Incentives			0	71.4%	188	-188	
Total	21282		1003	45%	451	552	

Method to convert NDA ranges to 6.2.0

🔹 Dairy sector:

- 🔹 BM totals: 6.2.0 is 1.4 times 6.1.3 equivalent
 - 🔹 Keep 31.3% clawback from BM (as before)
 - 🔹 Multiply 6.1.3 range limits by 1.4
 - 🔹 39-52 becomes **54.6-72.8 kgN/ha**

🔹 Drystock sector:

- 🔹 Old ~20% clawback → very wide 6.2.0 ranges e.g. 15-81!
- 🔹 Alternative needed, consistent with Integrated Framework
- 🔹 BM totals: 6.2.0 is 1.8 times 5.4 equivalent...
 - 🔹 Fix bottom of range and permitted activity limit at 18 kgN/ha/yr
 - 🔹 Allows 20% clawback and upper limit of 54.6 (= dairy lower limit)
 - 🔹 16-32 becomes **18-54.6 kgN/ha**

Draft 6.2.0 NDA sector ranges

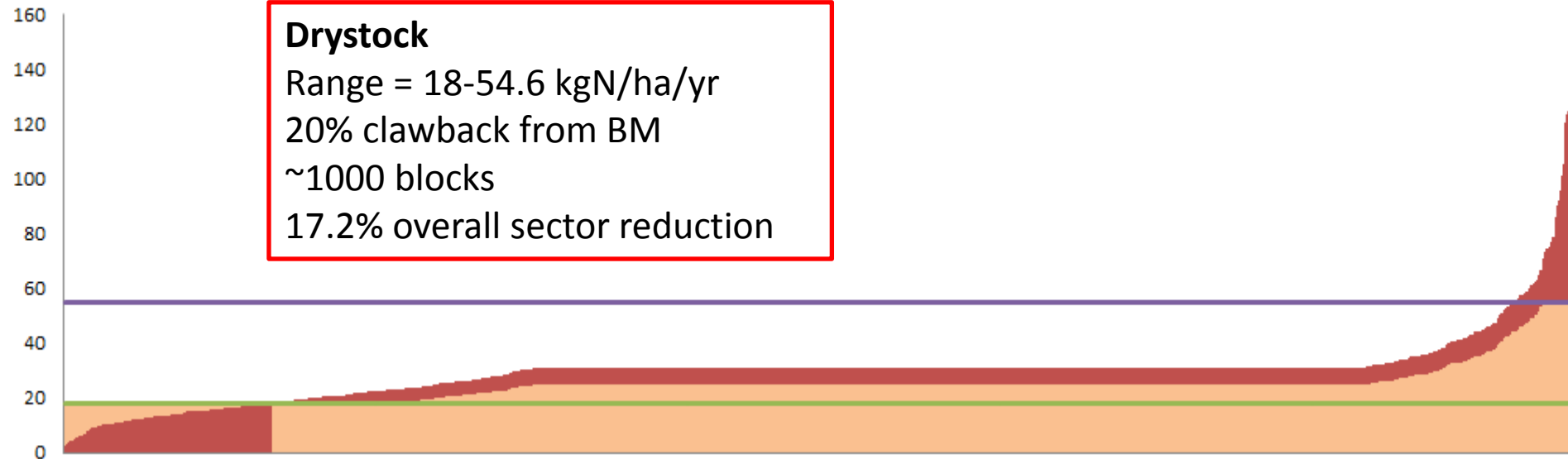
Drystock

Range = 18-54.6 kgN/ha/yr

20% clawback from BM

~1000 blocks

17.2% overall sector reduction



Dairy

Range = 54.6-72.8 kgN/ha/yr

31.3% clawback from BM

~120 blocks

35.3% overall sector reduction

