## **Biophysical Modelling: Group Exercise - Timber stock account**

## Timber stock account

	Year 1	Year 2	Year 3	Year 4	Year 5	
	m <sup>3</sup> timber					
Opening stock	1,000.0					
Reductions	-					
Harvest	50.0	40.0	60.0	40.0	50.0	
Fire and storm damage	20.0	15.0	25.0	18.0	10.0	
Total reductions	70.0	55.0	85.0	58.0	60.0	
Additions	-					
Regrowth	50.0					=5% of opening stock
Total Additions	50.0					
Closing stock	980.0					

Instructions: Calculate Opening Balances, Closing Balances, Regrowth, and Total Additions

for Years 2 to 5.

- Opening Stock for Year 2 is Closing Stock for Year 1

- Regrowth is 5% of Opening Stock

At year 5:

Indicator	m <sup>3</sup> timber	
Average harvest		
(B) Average fire and storm damage		
(A) Expected "Year 6" additions		= 5% of Year 5 closing stock
Recommended "sustainable" harvest		= (A) - (B)

Instructions: Calculate

- Average Harvest for Years 1 to 5
- (B) Average fire and storm damage for Years 1 to 6
- (A) Expected "Year 6" Additions (= 5% of Year 5 Closing Stock)
- Recommended "sustainable" harvest (= (A) (B))