

SEEA Training Seminar for the ECA (2-5 February 2015)

Exercises on Asset accounting- Timber resources

Solution to Exercise 1.

SEEAland Forest Resources Account, '000 cu/m	Type of timber resource			Non-timber forest products
	Cultivated timber resources	Natural timber		
		Available for wood supply	Not available for wood supply	
Opening stock of forest resources: 1 January 2006	7,800	12,000	5,400	270
Additions to stock: 2006-2010				
Natural growth	1,500	1,150	110	80
Reclassifications	50	150	-	-
<i>Total additions to stock</i>	<i>1,550</i>	<i>1,300</i>	<i>110</i>	<i>80</i>
Reductions to stocks: 2006-2010				
Removals	1,200	1,520	50	100
Felling residues	120	160	-	-
Natural losses	40	60	30	-
Catastrophic losses	-	-	80	-
Reclassifications	20	-	150	-
<i>Total reductions in stocks</i>	<i>1,380</i>	<i>1,740</i>	<i>310</i>	<i>100</i>
Closing stock of forest resources: 31 December 2010	7,970	11,560	5,200	250

Solution to Exercise 2

Total fellings = Removal + Felling residues = 1,520+50+160= 1,730

Natural regeneration = natural growth- natural losses= (1,150+110) – (60+30)=1,170

Depletion of natural timber resources from 2006-2010

= Total fellings – natural regeneration

= 1,730-1,170

= 560

Assuming annual depletion is constant, annual depletion = 560/5=112

Asset life = Closing stock of natural timber resources at 2010/ annual depletion

= (11,560+5,200)/112

= 150 years