

Plant Assets & Intangibles



Long-lived Assets

Plant Assets	Natural Resources	Intangible Assets
Depreciation	Depletion	Amortization



- Held for use in business
- Full cost includes several expenditures
- Last several years
- Can be sold or traded in



Capital expenditures

- Debited to an asset account
- Increase asset's capacity of efficiency OR
- Extend useful life

Expenses

- Debited to an expense account
- Maintain asset in working order

Capitalize or Expense impact of Accounting Errors

If a capital expenditure is incorrectly recorded as an expense:

Overstates expenses

Understates net income

Understates Capital

Understates assets



Depreciation

- Allocation of a plant asset's cost to expense over its useful life
- Matches expense against revenue generated using the asset



Straight-line

Units- of production

Decliningbalance



Depreciation	_	Cost- residual value		#
expense	_	Life	*	12



Depreciation per unit = Cost- residual value

Life in units

Depreciation expense = Depreciation per unit × activity during the period



- Accelerated method
 - Writes off more depreciation near the start of an asset's life
- Residual value is not in formula
 - Ignored until last year

Double-Declining-Balance Method

Depreciation expense

Depreciation expense will decrease over the asset's life

Which Method is Best for Matching

Straight- line	Units-of production	Double-declining balance
For assets that	For assets that	For assets that
generate revenue	depreciate due to wear	produce more
over time	and tear	revenue in their
		early years



Natural Resources

- Plant assets extracted from the natural environment
 - Iron ore, oil, coal
- Expensed through depletion using the units-ofproduction method
- Accumulated depletion is a contra-asset account to the natural resource





		Cost- residual value		
Depletion per unit	=	Estimated total units of natural		
		resources		
Depletion	latio	n per unit × number of units removed		
expense		if per unit A number of units removed		



Intangible Assets

- Non-current assets with no physical form
- Provide exclusive rights or privileges
- Expensed through amortization using the straight-line method
 - Credit to the asset directly
 - If intangible has indefinite life, it is not amortized



Types of Intangible

Patent	Copyright	Trademarks and brand names
Exclusive 20-year right to produce &	Exclusive right to sell a book, musical work,	Represent distinctive
sell an invention	film, art, software, or intellectual property	products or services
Issued by the federal g		



Types of Intangible

Franchises & Licenses	Goodwill
Allows purchaser to sell	Excess of the cost to
goods or services under	purchase another
specific conditions	company over the market
	value of its net assets



Goodwill

- Only recorded when a company purchases another business
- Not amortized
 - Current value measured each year
 - If value increases, no entry
 - If value decreases, a loss is recorded

Research and Development (R&D) Costs

- •Important to several industries, such as pharmaceutical companies
- Not an intangible
 - Expensed as incurred

Describe ethical issues telated to plant assets

Capitalize or Expense

Capitalize		Expense
 Results in higher asset value 		 Results in lower net
and larger net income		income (Less taxes)
(Looks better to investors)		 If cost does not provide a
 If cost provides a future 		future benefit, then
benefit, then capitalize		expense