14: Additional Tax Deductions	* Closer look at > Section 179 expense > Depletion > Other depreciation procedures
14.2 Depletion	Basics ❖ Depletion expense or allowance is a deduction from TI due to producing a natural resource ➤ Oil or gas, timber, salt, and so forth ➤ Depletes resource base and lessens value ❖ Not a cash flow, but causes cash flows due to tax savings ❖ Two basic methods, cost and percentage depletion ➤ Choose method providing larger tax savings ■ Except timber: cost depletion only
 Cost Depletion ❖ Based on production and resource cost ➤ Estimate total lifetime production (TLP), such as 10,000 barrels of oil ➤ Use the resource's cost (RC) to compute its depletion rate, such as dollars per barrel DR = RC / TLP ➤ If Pj is the production in year j, then Dj = Pj × DR 	Example 14.3 Cost Depletion ❖ Hap Camper found gold on mountain land purchased for \$120,000 ➤ Value of land was \$115,000, and extra \$5,000 paid for mineral rights ❖ TLP = 200 ounces and P₁ equals 20 ounces DR = \$25 = 5,000 / 200 D1 = \$500 = 20(25) ❖ The \$500 may be deducted from the revenues from the sale of the gold, along with other production expenses

Percentage Depletion

- Based on gross income (GI) from sale of resource, subject to an upper limit
- Trial, computed value
 - \triangleright *Glj* = selling price \times production in yr *j*
 - ➤ Use table on next slide to obtain *p*, the percentage depletion allowance
 - \triangleright Trial value is $T_j = pGI_j$
- ❖ Upper limit on T_j usually 50% of GI_j minus EO, all expenses other than depletion
 - \rightarrow *ULj* = (0.50)(*Glj EO*)
 - \triangleright D_j = min (T_j, UL_j)

Percentage Depletion Allowances

Natural Resource	
Borax, carbon dioxide produced from a well, granite, limestone, marble, mollusk shells, potash, slate, and soapstone	
Coal, lignite, sodium chloride	
Gravel, sand, and stone (other than dimension or ornamental stone)	5
Oil and natural gas (small producers)	15
Sulphur and uranium	
U.S. production of asbestos, lead ore, mica, nickel ore, and zinc ore	
U.S. production of certain oil shale, copper, iron ore, gold, and silver	

Example 14.4 Percentage Depletion

❖ Percentage depletion @ \$365 per ounce

1) Gross income (20 × 365)	7,300
2) Percentage depletion allowance	\times 0.15
3) T = trial computed depletion expense	1,095
4) Expenses other than depletion	5,500
5) TI = Gross income – Other expenses	1,800
6) 50% TI	× 0.50
7) UL = Upper limit	900
8) Percentage depletion = min(T, UL)	\$900

- Hap's cost depletion is \$500
- \Rightarrow Final $D_1 = $900 = max (500, 900)$