6.6.4 - Tail sewrities combining the secondary of multiple materiety ages of select a fail seconds for example, a foil seconds

- which when Selections a fail severity
 - ser, the decision on at which praturity be should begin to consider severity - Computing to tail severity is fairly straight forward. How choice:
 - -s bullber to suffere on

 - data requires actuarial Judgebount, we will depromptively following example.
- Given the following information as of December 31, 2013:

Accident	Incremental Closed Claim Counts				
Year	48 Months	60 Months	72 Months	84 Months	
2007	30	40	30	10	
2008	30	50	20		
2009	35	40			
2010	35				

Accident	Incremental Paid Claims in \$000s				
Year	48 Months	60 Months	72 Months	84 Months	
2007	300	1,500	400	320	
2008	350	300	900		
2009	300	1,200			
2010	350				

• Inflation is 3% per year.

county + incremental pold claim amounts. A severities can be calculated by dividing incremental closes claim ire, we should fraud the incremental paid claims by the closed claim counts. futher servitors + a comm

as for exemple, Ay sees justicented sensity at all builties founded to Ay sees land A 300,000 × 1.03 = 11,440,52

Accident	Increme	Incremental Severities Trended to AY2013		
Year	48 Months	60 Months	72 Months	84 Months
2007	11,940.52	44,776.96	15,920.70	38,209.67
2008	13,524.86	6,955.64	52,167.33	
2009	9,647.22	33,765.26		
2010	10,927.27			

this at 60 nearths 4.77 nemaks very stractionally, with the Automotion on Handy that A nat a good way willing for them. Io, instead or scienting a severity at each maturity age, we can conside the experts

28, 281.77

> = & Classic court of frenching & claim court

(Call dams)

¿ claim con

beyond & school a tail sourcity: 40 (49,776.46) + 50 (6955.66) + -.. + (0 (72,704.67)

- 35 we decided to combine the experience at 74 months inspend;

70 (15,420.70) + 70 (52,117.17) + 10 (38, 204.67)

m fil sewity =

flumb, who glow part a clear indication at the specific year which the Jath should be tracked , true it in the p -) poto) - to a Me of

to, you may makke that the incremental madmittee in the facility are given as singular points in time rather then a period at firm. To clarify, "socretary paid claims at x provides" select for claims paid between X-12 of x country factorises the development friensk on in years).

(2.5 points) Given the following information as of December 31, 2010: Assident Incremental Closed Claim Counts

Accident	incremental closed claim counts			
Year	72 Months	84 Months	96 Months	
2003	2,000	2,000	1,000	
2004	3,000	2,000		
2005	3,000			

Accident	Incremental Paid Claims (000s)			
Year	72 Months	84 Months	96 Months	
2003	\$20,000	\$28,000	\$25,000	
2004	\$33,000	\$36,000		
2005	\$36,000			

• Selected annual severity trend = 10%

5 years.

- (a) (2 points) Use the volume-weighted average to estimate the trended tail severity for maturity ages of 72 months and older.
- (b) (0.5 points) Briefly describe two considerations in selecting the maturity age at which to combine data for estimating a tail factor.

-3 m) aspend by freeding the incremental publishing to the Arradio lead, as 10 m the war releast Array of available dates. To freed who

Accident Year	Incremental Paid Claims (000s) Trended to AY2010			
	72 Months	84 Months	96 Months	
2003	$20,000(1.10)^7 = 38,974.34$	$28,000(1.10)^7 = 54,564.08$	$25,000(1.10)^7 = 48,717.93$	
2004	$33,000(1.10)^6 = 58,461.51$	$36,000(1.10)^6 = 63,776.20$		
2005	$36,000(1.10)^5 = 57,978.36$			

- be an asked to colored ten re-council tail security, which levelogs combining to date at 70 months of leyend. To be toos, Sun the incremental paid claims. Since the paid claims are provided in themsands at delars, unclearly earlier by the devide by the nevel claid Chaine Courts. Per fail severing 17 the Sum of all paid claims in the fail divided by the sum or an absence claim counts in

the fail, effectively a meighbut assesse of the security, with glaim counts of the weights. 79- Anoth feil Servity = 100 (38, 174.74 + 58,411.51 + 57, 178.76 + 54,514.08 + 13,771.74 + 48,777.93) E transled paid claims 1 & claim counts

- This approach a fester than calculating a direct versioned average, is we did in the example when we first Calculated to acceptantal securities to ever cell by dividies by the claim court, thereway, either mathet yields to seem august