(Fr17.ULAE) Practice A a-Question

Reading: Friedland 17 (ULAE)

Model: 2018.Fall #22

Problem Type: Classical/Kittel approach for ULAE with relaxation of 50/50 assumption

Random A

Use the

classical

approach to estimate the

unpaid

ULAE

for AY

2020

occurrence <== policy type

	paid paid		incurred	
CY	ULAE	claims	claims	
2016	0	0	0	
2017	54,000	460,000	540,000	
2018	51,000	329,000	570,000	
2019	47,000	397,000	460,000	
2020	60,000	314,000	520,000	

<== incurred includes reported & IBNR

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I	124,000	case outstanding (total across all AYs)	
I	118,000	total IBNR (total across all AYs)	
ı	42%	% of total IBNR attributed to future case development on known claims	

percent of unallocated work that occurs when a claim is opened percent of unallocated work that occurs when a claim is closed

Step 1: classical ULAE ratio ==> (paid ULAE) / (paid claims)

		paid	paid	ULAE	
	CY	ULAE	claims	ratio	
	2016	0	0		
	2017	54,000	460,000	11.7%	
	2018	51,000	329,000	15.5%	
	2019	47,000	397,000	11.8%	
	2020	60,000	314,000	19.1%	

Sometimes there is a trend in ULAE ratios.

If so, you may need to use judgement instead of just selecting the average

14.5% <== selected (average)

Step 2: apply formula for unpaid ULAE

unpaid ULAE = (ULAE ratio) x $\begin{bmatrix} 45\% & x & (Case + IBNER) \end{bmatrix}$ + 100% x IBNYR

where:

IBNYR = Tot IBNR - IBNER <== Incurred But Not YET Reported = 118,000 - 49,560 = 68,440

therefore:

unpaid ULAE = 15% x [45% x 173,560 + 100% x 68,440]
unpaid ULAE = 21,285 <== final answer

Reading: Friedland 17 (ULAE)
Model: 2018.Spring #23

Problem Type: Classical/Kittel approach for ULAE with relaxation of 50/50 assumption

Random B

Use the

classical approach to estimate the

unpaid

ULAE

for AY

2022

occurrence <== policy type

	paid paid		incurred	
CY	ULAE claims		claims	
2018	0	0	0	
2019	45,000	371,000	430,000	
2020	49,000	309,000	500,000	
2021	51,000	419,000	510,000	
2022	44,000	305,000	500,000	

<== incurred includes reported & IBNR

Ī	116,000	case outstanding (total across all AYs)
	69,000	total IBNR (total across all AYs)
I	73%	% of total IBNR attributed to future case development on known claims

70% percent of unallocated work that occurs when a claim is opened 30% percent of unallocated work that occurs when a claim is closed

Step 1: classical ULAE ratio ==> (paid ULAE) / (paid claims)

	paid paid		ULAE	
CY	ULAE	claims	ratio	
2018	0	0		
2019	45,000	371,000	12.1%	
2020	49,000	309,000	15.9%	
2021	51,000	419,000	12.2%	
2022	44,000	305,000	14.4%	

Sometimes there is a trend in ULAE ratios.
If so, you may need to use judgement instead of just selecting the average

13.7% <== selected (average)

Step 2: apply formula for unpaid ULAE

unpaid ULAE = (ULAE ratio) x [30% x (Case + IBNER) + 100% x IBNYR]

where:

therefore:

_	unpaid ULAE	=	14%	х	[30% x	166,370	+	100% x	18,630]
	unnaid III AF		9 356 < fin	al answer						