Basic Reserving, Q. 16.12:

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Accident Year	Calendar Year 2024 Paid Claims Only (\$000)				
2021	400				
2022	1800				
2023	1900				
2024	3000				

Basic Reserving, Solution 17.2:

Year	CY Paid ULAE	CY Paid Claims	AY IBNR	AY Reported Claims	AY Ultimate Claims	Claims Basis	ULAE Ratio
2021	\$6,500	\$41,000	\$7,000	\$101,300	\$108,300	\$81,380	7.99%
2022	\$9,200	\$58,300	\$18,100	\$138,400	\$156,500	\$117,220	7.85%
2023	\$11,000	\$86,000	\$32,200	\$126,900	\$159,100	\$129,860	8.47%
2024	\$12,400	\$105,500	\$56,300	\$127,000	\$183,300	\$152,180	8.15%
Total	\$39,100	\$290,800	\$113,600	\$493,600	\$607,200	\$480,640	8.13%

Based on the overall ratio, I am selecting a ULAE Ratio of 8.1%.

Estimate the pure IBNR as 5% of latest AY Ultimate: (5%)(183,300) = 9165.

Estimated unpaid ULAE:

 $(8.1\%) \{(60\%)(9165) + (40\%)(607,200 - 290,800)\} = $10,697.$

Basic Reserving, Q. 17.15:

Calendar Year	Earned Premium (\$000)	Paid ULAE (\$000)
2021	3400	40
2022	5500	130
2023	5800	200
2024	6200	230