



Australian Government
Australian Reinsurance Pool Corporation

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Cyclone Reinsurance Pool Premium & Exposure Statistics as at 31 December 2023

April 2024

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1: Introduction to Cyclone Reinsurance Pool

1.1 Background

ARPC commenced the operation of the Cyclone Reinsurance Pool (cyclone pool) on 1 July 2022 under the amended *Terrorism and Cyclone Insurance Act 2003*. The cyclone pool covers cyclone and cyclone-related flood damage to insured residential (Home), strata (Strata), and small business (SME) properties.

The cyclone pool operates Australia wide, but targets support to cyclone-prone areas, and provides reinsurance for insurers operating in those areas. The cyclone pool is intended to be cost neutral to the government over the long term and is supported by an annually reinstated \$10 billion Commonwealth guarantee.

As at 31 December 2023, approximately 95 per cent of the market (in terms of sum insured or premium) had joined the cyclone pool, with the remaining eligible risks to enter the cyclone pool by the end of 2024.

2: Summary Statistics

2.1 Summary by class of business

Tables 1 to 3 show cyclone pool premium and exposure metrics as at 31 December 2023 by class of business. The cyclone pool covers over 3.1 million buildings against financial loss from cyclones with an aggregate building exposure exceeding \$2.04 trillion.

Table 1 – Cyclone pool gross written premium metrics by class of business (for the quarter ending 31 December 2023)

Metric	Home	Strata	SME
Quarterly Cyclone Pool Premium (\$m)	195.75	27.23	13.39

Table 2 – Cyclone pool inforce premium metrics by class of business (as at 31 December 2023)

Metric	Home	Strata	SME
Annual cyclone pool premium (%)	87%	9%	4%
Average annual cyclone pool premium (\$ per risk)	170	715	262
Combined Rate on Line (per \$100 sum insured)	2.57%	2.10%	1.95%

Table 3 – Cyclone pool exposure metrics by class of business (as at 31 December 2023)

Metric	Home	Strata	SME
Number of insurers*	13	8	8
Count of Buildings risks	3,018,275	78,242	86,809
Count of Contents risks	3,128,734	-	158,963
Count of Business Interruption risks	-	-	73,512
Aggregate Buildings sum insured (\$m)	1,708,385	266,300	68,260
Aggregate Contents sum insured (\$m)	299,170	-	26,879
Aggregate Business Interruption sum insured (\$m)	-	-	25,408
Average Buildings sum insured (\$)	566,014	3,403,546	786,326
Average Contents sum insured (\$)	95,620	-	168,093
Average Business Interruption sum insured (\$)	-	-	345,629

Note: All metrics exclude properties which fall in CRESTA zones with nil cyclone risk (as defined by ARPC's premium formula). Metric definitions are provided in the Appendix.

*Number of insurers only includes those who have transferred risks into the cyclone pool as at 31 December 2023



2.2 Average cyclone pool premiums

Average premiums are expected to fluctuate due to the changing mix of business as insurers progressively transfer risk to the cyclone pool. As the cyclone pool reaches a steady state, average rates per sum insured are expected to remain stable against changes in conditions in the private market. ARPC will undertake an annual pricing review to address the adequacy of the cyclone pool premiums, calibrate for updated views of cyclone risk and optimise cyclone pool outcomes for medium to high risk policyholders. Addressing these objectives may result in fluctuations to average premiums across regions.

Table 4 – Home Buildings exposure metrics (as at 31 December 2023)

CRESTA Name	CRESTA Zone	Average buildings annual cyclone pool premium	Count of building risks	Combined Rate on Line (per \$100 sum insured)
Gold Coast	1	\$187	141,060	2.9%
Brisbane	2	\$126	659,532	2.1%
Sunshine Coast	3	\$206	123,685	3.3%
Wide Bay	4	\$164	102,700	3.3%
Rockhampton	5	\$329	44,359	6.7%
Marlborough	6	\$348	22,139	6.6%
Mackay	7	\$780	38,790	15.3%
Proserpine and Offshore Islands	8	\$976	10,340	16.8%
Townsville	9	\$626	59,581	12.8%
Ingham	10	\$441	13,748	9.6%
Cairns	11	\$463	60,833	9.1%
Cape York	12	\$373	3,446	8.4%
Fair Cape	13	\$389	925	6.1%
Gulf	14	\$383	343	8.5%
Inland QLD	15	\$62	187,983	1.2%
North NT	16	\$174	8,627	2.7%
Darwin	17	\$596	23,905	8.6%
Remainder NT	18	\$4	6,359	0.1%
Kununurra-Broome	19	\$979	3,156	16.9%
Pilbara	20	\$2,137	10,120	36.9%
Geraldton Central Coast	21	\$330	27,762	6.8%
Perth	22	\$105	713,132	1.9%
Albany-Bunbury	23	\$98	108,765	1.9%
Remainder WA	24	\$55	38,187	1.2%
South-West NSW	38	\$0.1	312,191	0.0%
Northern Slopes	47	\$6	82,668	0.1%
Mid-North coast	48	\$12	82,726	0.2%
Far North coast	49	\$123	131,213	2.0%
Total		\$151	3,018,275	2.7%

Table 5 – Home Contents exposure metrics (as at 31 December 2023)

CRESTA Name	CRESTA Zone	Average contents annual cyclone pool premium	Count of contents risks	Combined Rate on Line (per \$100 sum insured)
Gold Coast	1	\$24	205,728	2.6%
Brisbane	2	\$17	746,790	1.8%
Sunshine Coast	3	\$25	151,970	2.8%
Wide Bay	4	\$21	95,646	2.5%
Rockhampton	5	\$42	40,049	5.4%
Marlborough	6	\$44	20,357	5.3%
Mackay	7	\$97	36,345	13.3%
Proserpine and Offshore Islands	8	\$109	10,954	15.5%
Townsville	9	\$85	59,311	12.2%
Ingham	10	\$57	11,156	8.5%
Cairns	11	\$62	59,475	9.3%
Cape York	12	\$48	2,605	7.3%
Fair Cape	13	\$32	866	5.3%
Gulf	14	\$42	259	6.5%
Inland QLD	15	\$9	172,949	1.0%
North NT	16	\$20	7,807	2.2%
Darwin	17	\$62	29,148	8.1%
Remainder NT	18	\$0.4	6,850	0.1%
Kununurra-Broome	19	\$106	2,744	16.6%
Pilbara	20	\$231	10,208	35.4%
Geraldton Central Coast	21	\$44	25,211	5.5%
Perth	22	\$14	718,925	1.4%
Albany-Bunbury	23	\$13	102,025	1.4%
Remainder WA	24	\$9	33,700	1.0%
South-West NSW	38	\$0	289,590	0.0%
Northern Slopes	47	\$1	72,741	0.1%
Mid-North coast	48	\$1	82,591	0.1%
Far North coast	49	\$20	132,734	2.1%
Total		\$20	3,128,734	2.1%

Figure 1 – Home Buildings Rate on Line by CRESTA zone

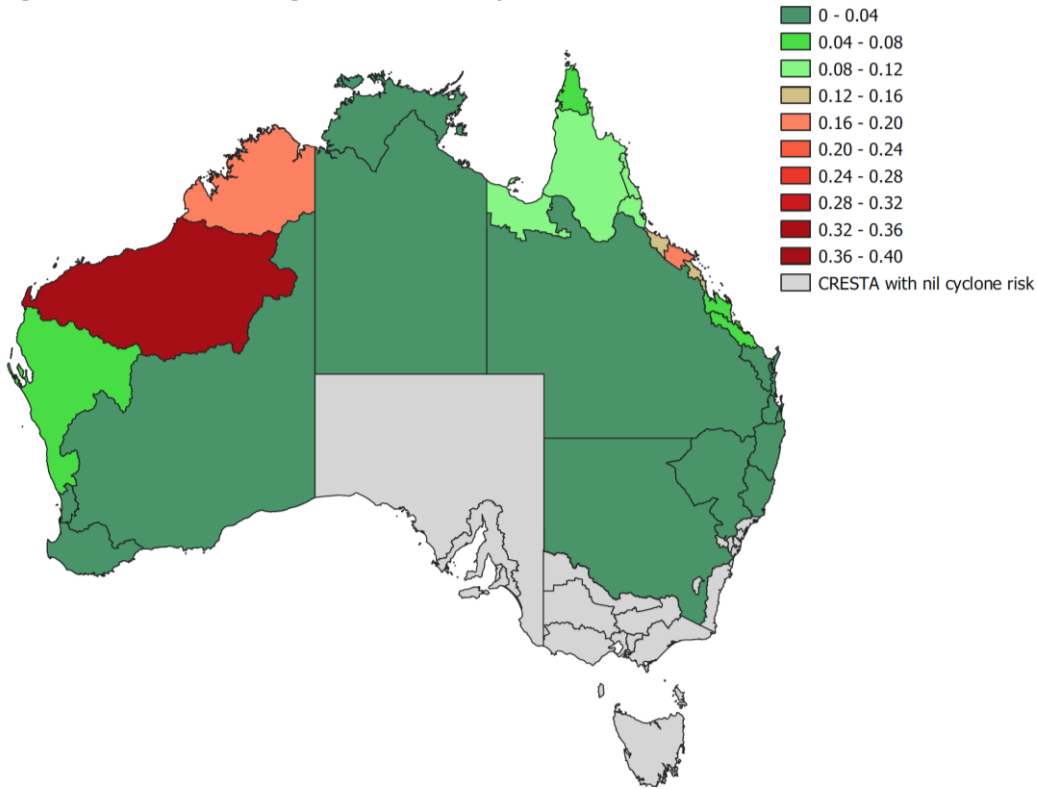
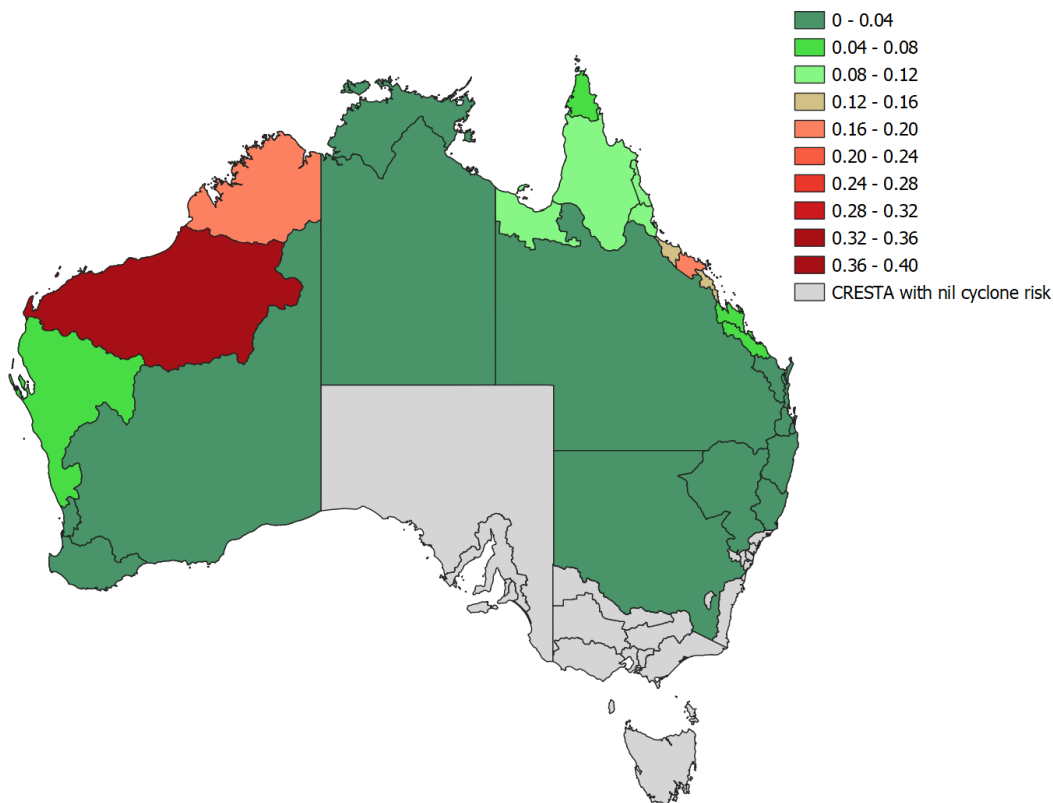


Figure 2 – Home Contents Rate on Line by CRESTA zone



3: Mitigation Statistics

3.1 Mitigation summary by CRESTA zone

ARPC’s premium formula provides discounts for Home properties with the following risk mitigation measures in place:

- Roller door bracing
- Window protection measures
- Tied down roof
- New/replaced roof
- Elevated ground floor

The mitigation rating factors and their associated discounts are shown in Table 7. Mitigation discounts on roller doors and roof upgrades are only applicable to properties built prior to 2012 and 1982 respectively. Properties built after this are not eligible for additional mitigation discounts as risk reduction through building code enhancements is accounted for in the construction year rating factor.

Table 6 shows the proportion of Home Buildings reinsured by the cyclone pool that are eligible for mitigation discounts. Based on data captured by insurers and reported to ARPC, a small proportion of Home Buildings reinsured by the cyclone pool have completed mitigation and are accessing the cyclone pool premium discount allowances. Over time, ARPC expects these figures to increase as insurers adjust their underwriting approaches and as policyholders are incentivised by cyclone pool premiums to implement mitigation measures.

Table 6 - Proportion of Buildings in the cyclone pool eligible for mitigation discount by region (as at 31 December 2023)

Region	Roller door bracing	Window protection	Roof tied down	New roof	Ground floor elevated >1m
Northern NSW	0.0%	0.0%	0.0%	0.0%	0.3%
South East and Mid Coast QLD	0.9%	0.4%	0.5%	0.5%	1.2%
Inland QLD	0.5%	0.2%	0.2%	0.2%	1.1%
Far North QLD	8.3%	5.4%	6.9%	5.9%	3.1%
NT	0.2%	1.2%	0.1%	0.1%	0.1%
Northern WA	0.5%	1.8%	0.4%	0.3%	0.2%
Southern WA	0.0%	0.0%	0.0%	0.0%	0.1%
Total	0.8%	0.5%	0.6%	0.5%	0.8%

3.2 Risk mitigation discounts

The cyclone pool supports Home premium discounts for risk mitigation activities. The magnitude of the discounts was informed by research assessing the resilience or reduction in risk achieved through each activity. Over time, additional discount factors may be added to reflect new research relating to mitigation against cyclone risk.

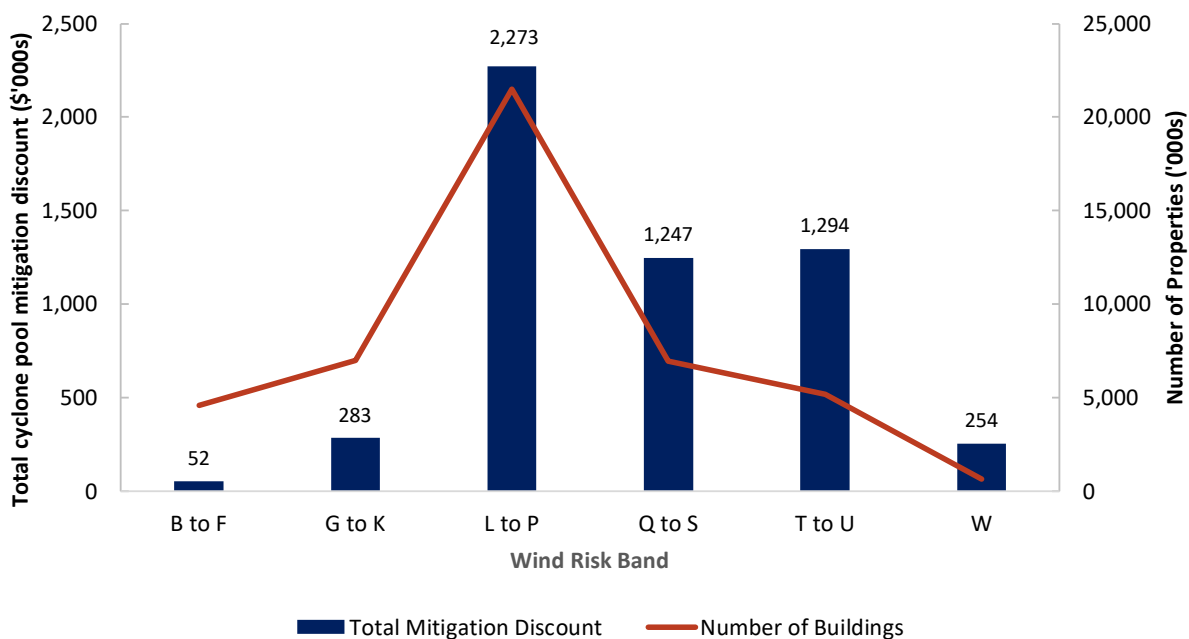


Table 7 - Premium discount per mitigation measure

Mitigation activity	Wind premium discount
Roller door bracing upgrade or retrofit replacement of roller door (compliant with AS 4505:2012) – on homes built pre-2012	8%
Window protection to all windows (e.g. cyclone shutters)	10%
Roof structure tie-down upgrades (e.g. over-batten roof system) – on homes built pre 1982	20%
Complete roof replacement and structure tie-down upgrades to current standards - on homes built pre 1982	30%

The total discount for mitigation applied to enforce premiums as at 31 December 2023 is \$5.4 million. Discounts applied over time will be tracked to assess whether the cyclone pool premium discounts are encouraging mitigation and their recording by insurers. Figure 3 provides the breakdown of the premium discounts applied by wind risk band.

Figure 3 - Breakdown of total premium discount by wind band



An increased premium discount for higher wind risk properties is expected as the relative benefit for risk reduction is higher. Wind Risk Band ‘W’ (containing more exposure in north-west Western Australia) has lower rates of discount take-up than ‘L’ to ‘U’. Bands ‘L’ to ‘U’ have a greater proportion of policies in Queensland. The higher discount in these areas shows the benefit of the Queensland Household Resilience Program, which offers up to \$11,250 in funding for qualifying mitigation. The cyclone pool premium discounts align with the activities funded by this program.



4: Coverage Statistics

4.1 Coverage summary by CRESTA zone

The cyclone pool provides reinsurance coverage for wind, riverine flood (as defined in the Terrorism and Cyclone Insurance Regulations 2003), and storm surge risk where these perils are insured under a policyholder’s insurance cover. Tables 8 and 9 shows the proportion of both Home Buildings and Home Contents that are covered for each of these perils respectively.

Table 8 – Proportion of Home Buildings with wind, flood and storm surge cover by CRESTA (as at 31 December 2023)

CRESTA Name	CRESTA Zone	Wind	Storm Surge	Flood
Gold Coast	1	100%	42%	83%
Brisbane	2	100%	48%	85%
Sunshine Coast	3	100%	48%	87%
Wide Bay	4	100%	52%	84%
Rockhampton	5	100%	52%	87%
Marlborough	6	100%	58%	89%
Mackay	7	100%	74%	96%
Proserpine and Offshore Islands	8	100%	76%	97%
Townsville	9	100%	74%	98%
Ingham	10	100%	53%	85%
Cairns	11	100%	71%	97%
Cape York	12	100%	58%	84%
Fair Cape	13	100%	66%	96%
Gulf	14	100%	27%	86%
Inland QLD	15	100%	43%	80%
North NT	16	100%	68%	94%
Darwin	17	100%	75%	100%
Remainder NT	18	100%	56%	95%
Kununurra-Broome	19	100%	26%	88%
Pilbara	20	100%	36%	93%
Geraldton Central Coast	21	100%	59%	88%
Perth	22	100%	72%	92%
Albany-Bunbury	23	100%	60%	88%
Remainder WA	24	100%	49%	81%
South-West NSW	38	100%	28%	82%
Northern Slopes	47	100%	29%	75%
Mid-North coast	48	100%	25%	82%
Far North coast	49	100%	30%	77%
Total		100%	52%	86%



Table 9 - Proportion of Home Contents with wind, flood, and storm surge coverage by CRESTA (as at 31 December 2023)

CRESTA Name	CRESTA Zone	Wind	Storm Surge	Flood
Gold Coast	1	100%	51%	88%
Brisbane	2	100%	55%	88%
Sunshine Coast	3	100%	53%	89%
Wide Bay	4	100%	57%	86%
Rockhampton	5	100%	57%	89%
Marlborough	6	100%	62%	91%
Mackay	7	100%	76%	97%
Proserpine and Offshore Islands	8	100%	74%	97%
Townsville	9	100%	77%	98%
Ingham	10	100%	56%	86%
Cairns	11	100%	70%	97%
Cape York	12	100%	62%	86%
Fair Cape	13	100%	73%	97%
Gulf	14	100%	35%	88%
Inland QLD	15	100%	48%	83%
North NT	16	100%	68%	95%
Darwin	17	100%	75%	99%
Remainder NT	18	100%	58%	96%
Kununurra-Broome	19	100%	33%	90%
Pilbara	20	100%	47%	95%
Geraldton Central Coast	21	100%	61%	89%
Perth	22	100%	73%	93%
Albany-Bunbury	23	100%	63%	89%
Remainder WA	24	100%	52%	83%
South-West NSW	38	100%	30%	84%
Northern Slopes	47	100%	32%	78%
Mid-North coast	48	100%	28%	85%
Far North coast	49	100%	34%	81%
Total		100%	56%	88%

Appendix A: Glossary of key terms and metrics

Term	Definition
Aggregate Annual Premium	Total cyclone pool premium that would be paid on properties reinsured by the cyclone pool for a full annual policy term.
Aggregate Buildings / Contents / Business Interruption Sum Insured	Total sum insured for properties reinsured by the cyclone pool. Rateable sum insured is defined by ARPC and is an input to the cyclone pool premium calculation.
Average Annual Premium	Sum of annual cyclone pool premium for properties reinsured by the cyclone pool / count of properties with cyclone risk reinsured by the cyclone pool.
Average Sum Insured	Aggregate Sum Insured for properties reinsured by the cyclone pool / count of properties with cyclone risk reinsured by the cyclone pool.
Combined Rate on Line	Cyclone premium rate per \$100 sum insured. Sum of annual cyclone pool premium for properties reinsured by the cyclone pool / aggregate Sum Insured.
Count of Properties with Cyclone Risk	Count of properties in CRESTA zones with cyclone risk (as defined by ARPC's premium formula) that are reinsured by the cyclone pool.
CRESTA	CRESTA (Catastrophe Risk Evaluating and Standardising Target Accumulations) zones are part of an international geographic zoning system which helps brokers and reinsurers manage natural hazard risk.
Declared Cyclone Event	Refers to when ARPC declares a cyclone under the <i>Terrorism and Cyclone Insurance Act 2003</i> , upon notification from the Bureau of Meteorology (the Bureau). The Bureau forms a view on a cyclone event using climate criteria outlined in the legislation and ARPC has 24 hours to officially declare the cyclone.
Quarterly Cyclone Pool Premium	Total gross written cyclone pool premium paid on properties reinsured by the cyclone pool over the period 1 October 2023 to 31 December 2023.

* All metrics exclude properties which fall in CRESTA zones with nil cyclone risk (as defined by ARPC's premium formula).



Appendix B: CRESTA to Region Mapping

Cresta Name	Cresta Zone	Region
Gold Coast	1	South East and Mid Coast QLD
Brisbane	2	South East and Mid Coast QLD
Sunshine Coast	3	South East and Mid Coast QLD
Wide Bay	4	South East and Mid Coast QLD
Rockhamptom	5	South East and Mid Coast QLD
Marlborough	6	South East and Mid Coast QLD
Mackay	7	South East and Mid Coast QLD
Proserpine and Offshore Islands	8	Far North QLD
Townsville	9	Far North QLD
Ingham	10	Far North QLD
Cairns	11	Far North QLD
Cape York	12	Far North QLD
Fair Cape	13	Far North QLD
Gulf	14	Far North QLD
Inland QLD	15	Inland QLD
North NT	16	NT
Darwin	17	NT
Remainder NT	18	NT
Kununurra-Broome	19	Northern WA
Pilbara	20	Northern WA
Geraldton Central Coast	21	Northern WA
Perth	22	Southern WA
Albany-Bunbury	23	Southern WA
Remainder WA	24	Southern WA
South-West NSW	38	Northern NSW
Northern Slopes	47	Northern NSW
Mid-North coast	48	Northern NSW
Far North coast	49	Northern NSW