

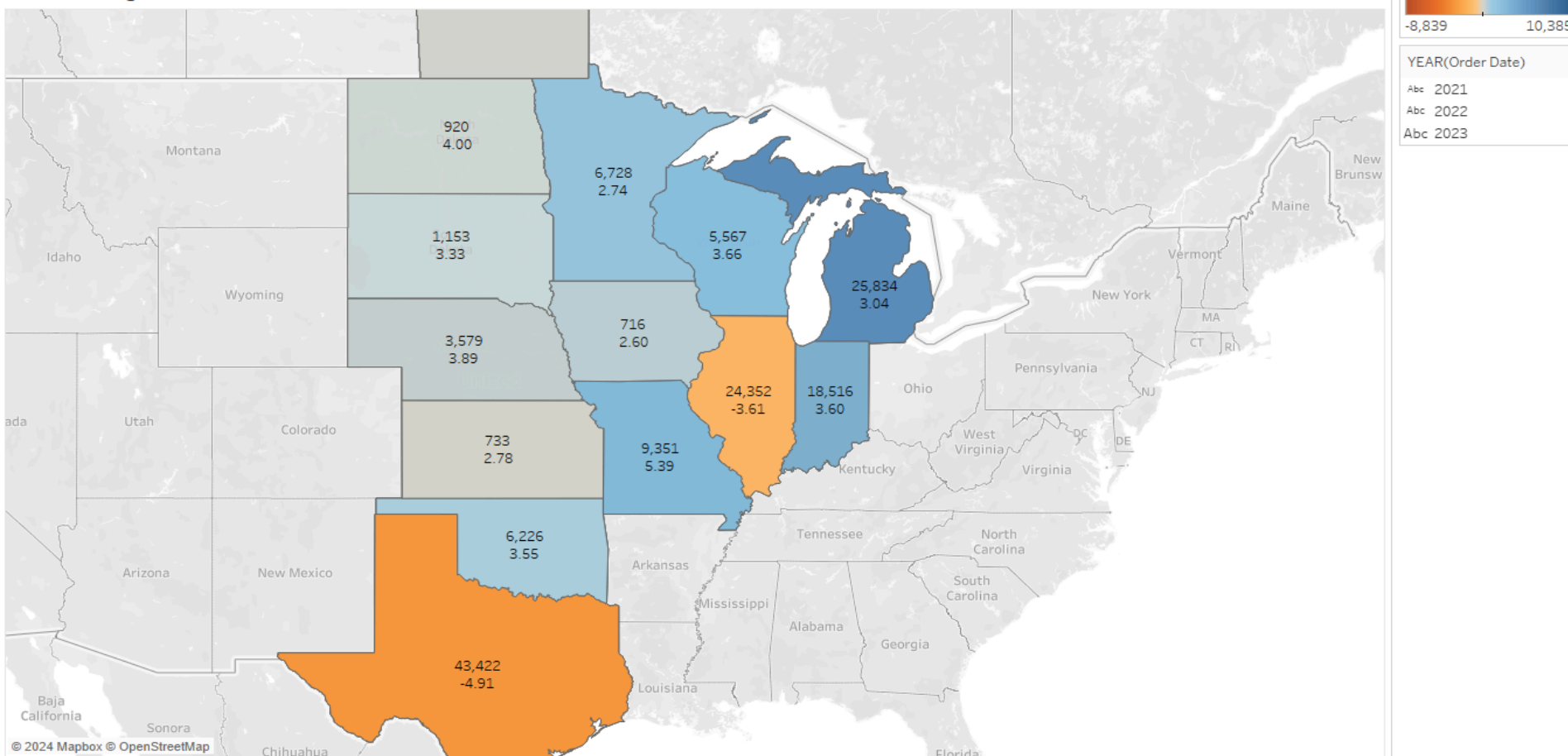


## Assessment No. 2: Basic Data Visualization

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ECO 2209 - 2	Mr. Ivan Cassidy F. Villena

### 1. Spatial Map

Central Region: Sales and Profit from 2021 to 2023





**PAMANTASAN NG LUNGSOD NG MAYNILA**  
(University of the City of Manila)  
General Luna Street corner Muralla Street



**2. Based on the spatial map, please fill in the following details.**

**Central Region: Sales and Profit from 2021 to 2023**

Year of Ord..	Central					
	Canada			United States		
	Sales	Profit	PR	Sales	Profit	PR
2021				18,578	-1,009	-18
2022				21,034	-2,809	-7
2023				24,352	-6,746	-4
2021				6,640	1,990	3
2022				25,462	10,385	2
2023				18,516	5,140	4
2021				1,713	490	3
2022				959	308	3
2023				716	276	3
2021				170	76	2
2022				691	231	3
2023				733	263	3
2022	1,175	138	9			
2023	755	21	35			
2021				16,844	5,166	3
2022				27,420	8,993	3
2023				25,834	8,488	3
2021				5,724	1,721	3
2022				1,527	404	4
2023				6,728	2,460	3
2021				6,985	2,893	2
2022				4,221	1,366	3
2023				9,351	1,733	5
2021				594	203	3
2022				3,081	854	4
2023				3,579	921	4
2023				920	230	4
2021				2,808	660	4
2022				8,010	1,677	5
2023				6,226	1,755	4
2023				1,153	346	3

**Central Region: Sales and Profit from 2021 to 2023**

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	Canada			United States		
	Sales	Profit	PR	Sales	Profit	PR
2021				1,713	490	3
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2023				920	230	4
2021				2,808	660	4
2022				8,010	1,677	5
2023				6,226	1,755	4
2023				1,153	346	3
2021				34,455	-2,516	-14
2022				41,686	-5,240	-8
2023				43,422	-8,839	-5
2021				8,362	2,043	4
2022				13,338	3,729	4
2023				5,567	1,523	4



**3. What are the states in the Central region recorded for the lowest profit ratio?**

Central Region: Lowest Profit Ratio recorded from Illinois & Texas

Country/Re..	State/Province	Central		
		2021	2022	2023
Canada	Manitoba		8.54	35.39
United States	Illinois	-18.40	-7.49	-3.61
	Indiana	3.34	2.45	3.60
	Iowa	3.49	3.11	2.60
	Kansas	2.24	2.99	2.78
	Michigan	3.26	3.05	3.04
	Minnesota	3.33	3.78	2.74
	Missouri	2.41	3.09	5.39
	Nebraska	2.92	3.61	3.89
	North Dakota			4.00
	Oklahoma	4.25	4.78	3.55
	South Dakota			3.33
	Texas	-13.69	-7.96	-4.91
	Wisconsin	4.09	3.58	3.66

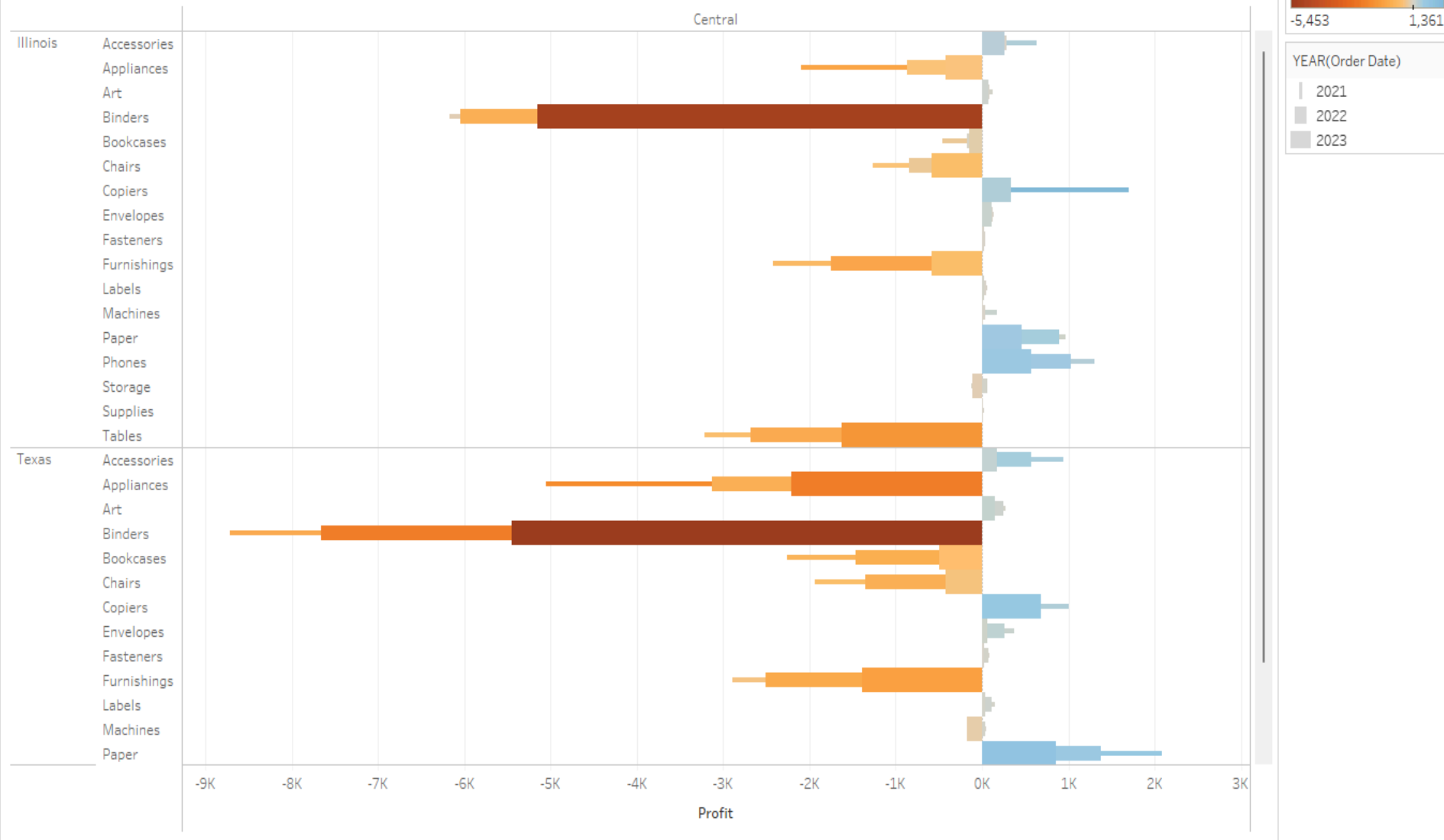
AGG(PR)





#### 4. Waterfall Chart

Central Region: Illinois & Texas Profit Losses from 2021 to 2023





5. Based on the waterfall chart, please fill in the following details.

## Central Region: Non-Profitable Products from 2021 to 2023

		Central								
		Applianc..	Binders	Bookcas..	Chairs	Furnishi..	Machines	Storage	Supplies	Tables
Illinois	2021	-1,231	-114	-286	-429	-667		-10		-526
	2022	-442	-897	-14	-260	-1,173				-1,059
	2023	-421	-5,155	-155	-579	-582		-114		-1,627
Texas	2021	-1,920	-1,053	-796	-583	-385		-223	-19	-440
	2022	-914	-2,207	-972	-941	-1,123		-34	-825	-324
	2023	-2,216	-5,453	-492	-417	-1,387	-169	-300		-909

- **Disclaimer:** There are no 2024 options on my **Tableau**. Hence, 2021 to 2023 are the only years indicated in my assessment. Thank you for understanding.

