Bird Species Observation Analysis

Peak Bird Activity Hours

Bird activity shows noticeable peaks during certain time windows (for example, early morning and late afternoon). This means birdwatching tours, photography sessions, and research observations can be planned at these times to get maximum results.

Location Hotspots

A small set of locations record the majority of sightings, making them prime spots for tourism, conservation projects, and targeted monitoring efforts.

Species-Specific Locations

Some bird species appear predominantly in certain areas. This can guide eco-tour operators or wildlife photographers to promote "species-specific" packages.

Weather Impact on Activity
Temperature and humidity influence bird sightings. Planning events or field studies during favorable weather conditions can improve success rates.

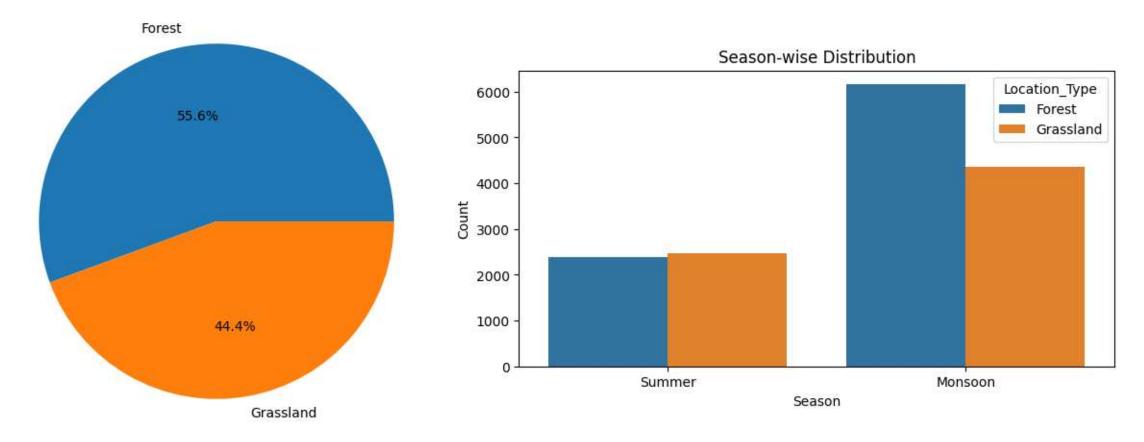
Seasonal Trends

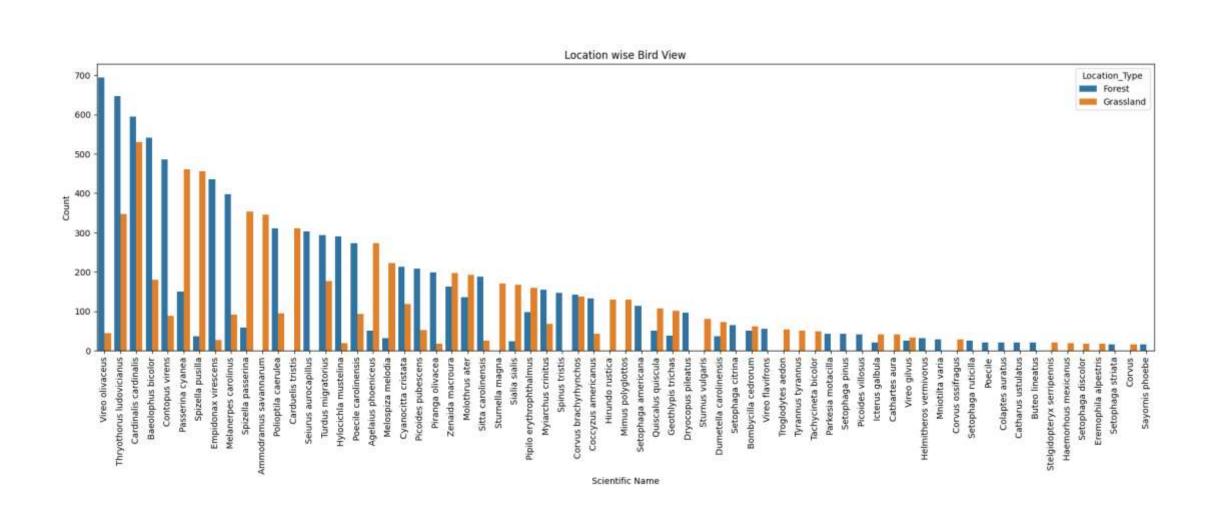
Different species are more visible in different seasons, creating opportunities for seasonal tourism marketing and migration studies.

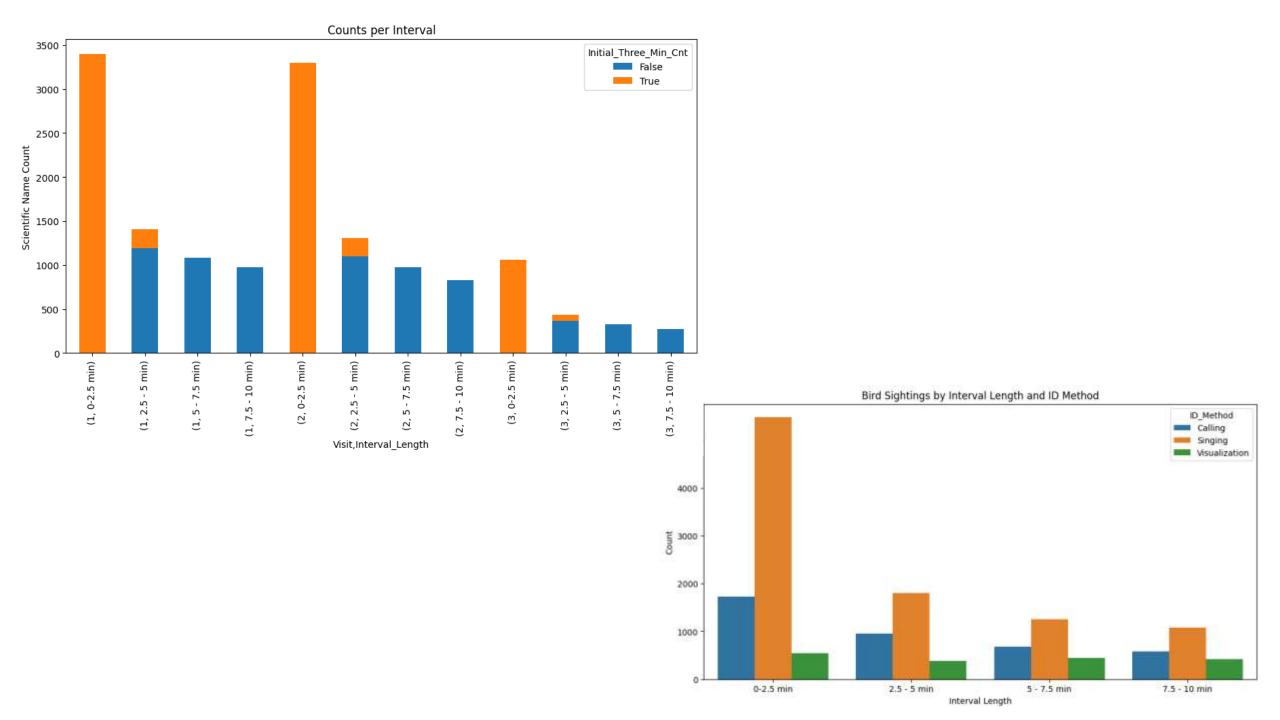
Rare Species Alerts

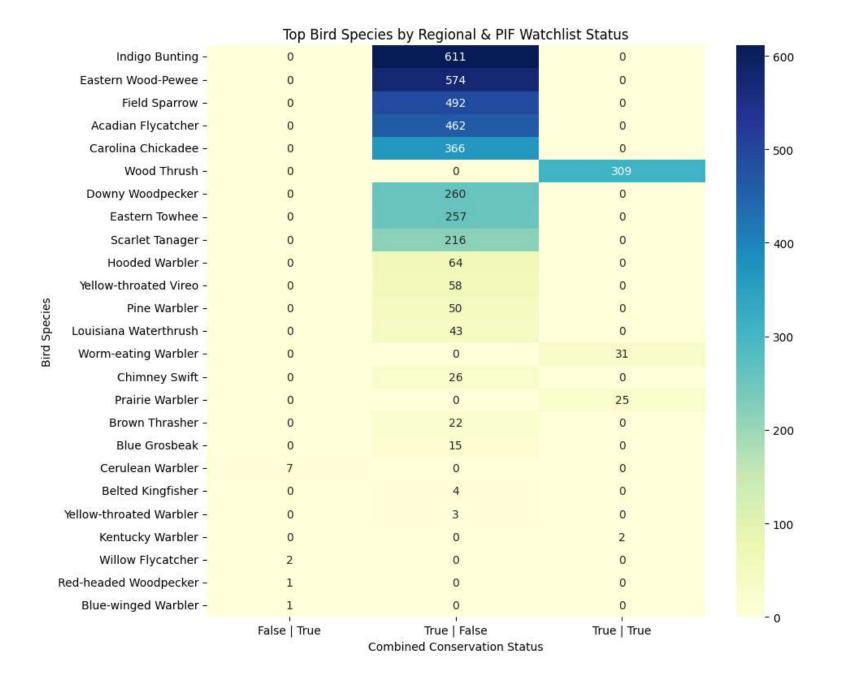
Species with low occurrence rates might be rare or endangered, signaling a need for conservation action and creating awareness campaigns.

Pie chart of Location wise Habitat









Bird Observation Count by Sky and Wind Conditions

		moderate effect on count		irbance	onghe effect on count				
		Moderate effect on count	No effect on count	Serious effect on count	Slight effect on count	- 0			
	Partly Cloudy-Light breeze (4-7 mph) wind felt on face -	152	611	8	590				
	Partly Cloudy-Light air movement (1-3 mph) smoke drifts -	305	1271	17	1525				
	Partly Cloudy-Gentle breeze (8-12 mph), leaves in motion -	- 9	70	6	137 - 20				
	Partly Cloudy-Calm (< 1 mph) smoke rises vertically -	- 183	747	20	521				
	Mist/Drizzle-Light breeze (4-7 mph) wind felt on face -	- 0	39	0	33	- 400			
	Mist/Drizzle-Light air movement (1-3 mph) smoke drifts -	- 7	131	0	52				
	Mist/Drizzle-Gentle breeze (8-12 mph), leaves in motion -	- 0	11	0	0	- 600			
ň	Mist/Drizzle-Calm (< 1 mph) smoke rises vertically -	- 0	42	3	34				
, S	Fog-Light breeze (4-7 mph) wind felt on face -	- 37	0	0	19				
2	Fog-Light air movement (1-3 mph) smoke drifts -	- 12	186	17	96	- 800			
	Fog-Calm (< 1 mph) smoke rises vertically -	- 16	121	7	87	200			
-	Cloudy/Overcast-Light breeze (4-7 mph) wind felt on face -	- 107	254	60	313				
	Cloudy/Overcast-Light air movement (1-3 mph) smoke drifts -	194	522	84	551	- 1000			
	Cloudy/Overcast-Gentle breeze (8-12 mph), leaves in motion -	- 0	37	0	21				
	Cloudy/Overcast-Calm (< 1 mph) smoke rises vertically -	100	455	13	206	- 1200			
	Clear or Few Clouds-Light breeze (4-7 mph) wind felt on face -	- 94	468	27	349	Deg as vec			
Clear or Few Clouds-Light air movement (1-3 mph) smoke drifts –		192	1492	68	914				
(Clear or Few Clouds-Gentle breeze (8-12 mph), leaves in motion -	- 0	19	22	33	- 1400			
	Clear or Few Clouds-Calm (< 1 mph) smoke rises vertically -	169	1049	78	359				
		Bild Observation country sky and wind conditions							

Correlation Heatmap

- 0.8

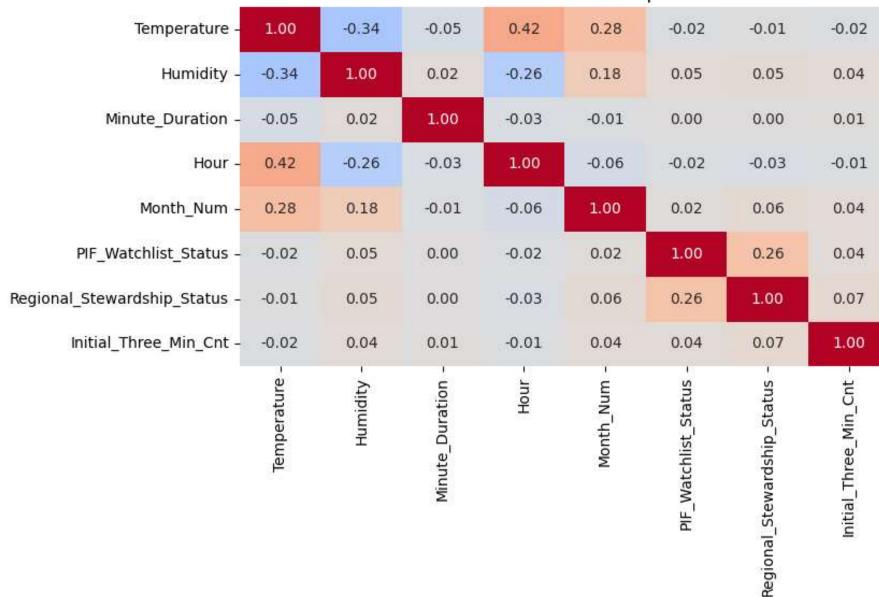
- 0.6

- 0.4

- 0.2

- 0.0

- -0.2

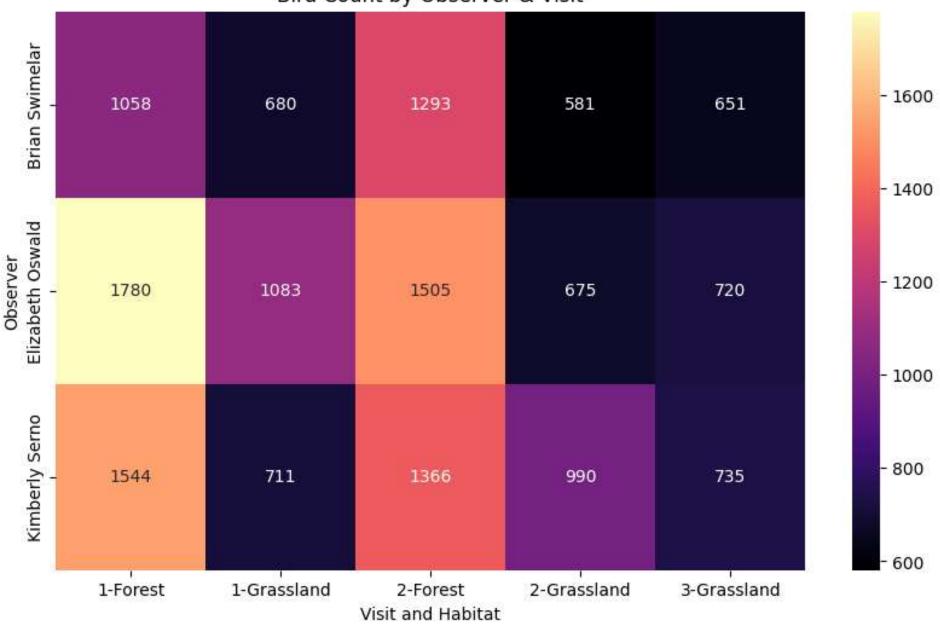


Bird Count by Temperature & Humidity Intervals

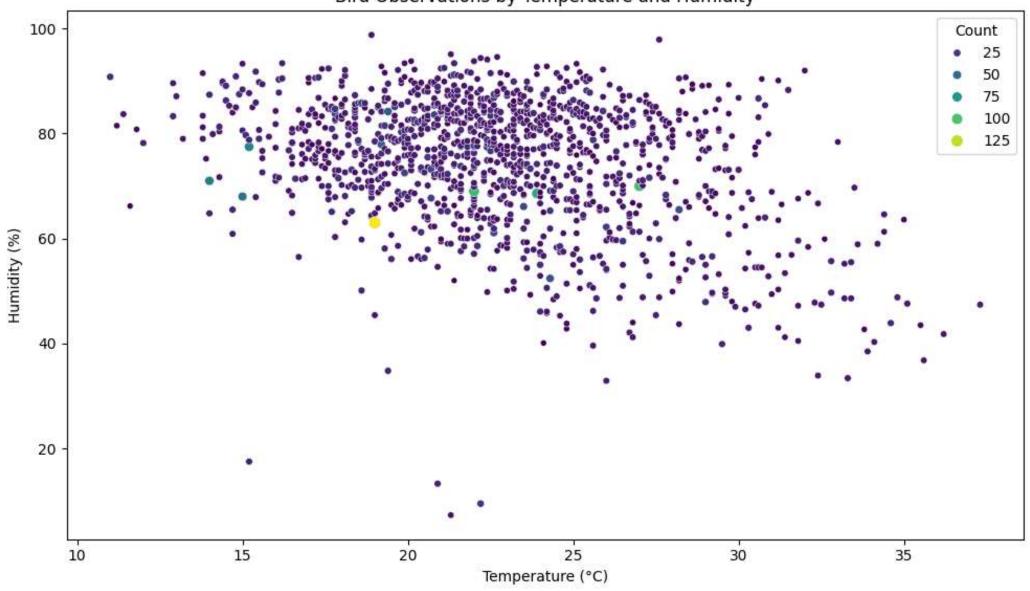
	(10.974, 13.63] -	0	0	0	0	0	0	3	24	64	20	- 1200
	(13.63, 16.26] -	0	14	0	0	0	13	173	263	292	125	31333-90
	(16.26, 18.89] -	0	0	0	0	15	35	286	714	607	107	- 1000
val	(18.89, 21.52] -	23	0	0	17	13	181	751	1212	1251	219	- 800
e Inter	(21.52, 24.15] -	22	0	0	3	74	437	909	1171	1309	167	
Temperature Interval	(24.15, 26.78] -	0	0	13	36	199	349	514	577	730	132	- 600
Tem	(26.78, 29.41] -	0	0	0	19	134	188	356	352	319	34	400
	(29.41, 32.04] -	0	0	0	55	111	100	110	95	78	19	- 400
	(32.04, 34.67] -	0	0	26	26	85	81	39	7	0	0	- 200
	(34.67, 37.3] -	0	0	0	27	41	0	6	0	0	0	
		(7.209, 16.45] -	(16.45, 25.6] -	(25.6, 34.75] -	(34.75, 43.9] -	(43.9, 53.05] -	(53.05, 62.2] -	(62.2, 71.35] -	(71.35, 80.5] -	(80.5, 89.65] -	(89.65, 98.8] -	- 0
		5353				Humidity	Intonval					

Humidity Interval

Bird Count by Observer & Visit



Bird Observations by Temperature and Humidity



Conclusion

- Peak activity periods identified Early morning and late afternoon are the best times for bird observation and related tourism or research efforts.
- Key biodiversity zones Specific areas contribute the majority of sightings, making them priority locations for conservation and eco-tourism investment.
- Weather-sensitive patterns Optimal bird activity occurs under mild temperature and moderate humidity, helping plan fieldwork schedules.
- Location-specific species Many species are tied to unique habitats, requiring targeted protection strategies.
- Seasonal migration evidence Clear seasonal shifts in species presence indicate migration patterns that can guide habitat connectivity projects.
- At-risk or rare species Low frequency sightings highlight species that may need urgent monitoring and conservation support.