

# MICHIGAN CITY ENTRANCE LIGHT, IN, United States of America

## Annual Climatic Design Data (2005–2019)

| Latitude | Longitude | Elevation m | Standard Station<br>Pressure kPa | Winter<br>Temperature °C | Summer<br>Temperature °C | Extreme Wind<br>Speed m/s | Extreme Wind<br>Direction |
|----------|-----------|-------------|----------------------------------|--------------------------|--------------------------|---------------------------|---------------------------|
| 41.7290N | 86.9117W  | 197         | 98.98                            | -15.1                    | 30.8                     | 16.5                      | WSW                       |

## Monthly Winds (2005–2019)

|       | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| %CALM | 0   | 0   | 1   | 1   | 1   | 6   | 1   | 1   | 1   | 0   | 0   | 0   |

### Prevailing Wind #1

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DIR     | S   | S   | NNE | NNE | NNE | S   | S   | S   | SSE | S   | S   | S   |
| %OCC    | 15  | 10  | 12  | 10  | 11  | 11  | 14  | 12  | 10  | 13  | 15  | 15  |
| AVG m/s | 6.4 | 5.6 | 6.7 | 6.1 | 5.4 | 6.0 | 5.0 | 4.8 | 5.0 | 6.1 | 6.6 | 6.1 |
| MED m/s | 6.3 | 5.3 | 6.7 | 5.5 | 5.0 | 5.7 | 5.0 | 4.8 | 5.1 | 5.8 | 6.5 | 5.6 |

### Prevailing Wind #2

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DIR     | SSW | SSW | N   | N   | SSE | N   | SSW | SSE | S   | SSE | SSE | SSE |
| %OCC    | 11  | 9   | 11  | 9   | 10  | 11  | 12  | 10  | 10  | 11  | 14  | 12  |
| AVG m/s | 6.7 | 6.5 | 7.6 | 7.7 | 5.6 | 5.0 | 5.3 | 4.2 | 5.5 | 5.4 | 6.0 | 5.7 |
| MED m/s | 6.7 | 6.0 | 7.6 | 7.5 | 5.5 | 4.7 | 5.1 | 4.4 | 5.3 | 5.4 | 5.7 | 5.4 |

### Prevailing Wind #3

|         |      |     |     |     |     |     |     |     |     |     |     |     |
|---------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DIR     | WSW  | WSW | NE  | NE  | N   | NNE | NNE | NNE | N   | SE  | SE  | SSW |
| %OCC    | 11   | 9   | 8   | 8   | 9   | 10  | 11  | 10  | 9   | 9   | 10  | 12  |
| AVG m/s | 10.4 | 8.5 | 4.7 | 5.0 | 6.3 | 5.0 | 5.2 | 5.1 | 7.1 | 4.5 | 5.2 | 6.7 |
| MED m/s | 10.7 | 8.2 | 4.5 | 4.9 | 5.7 | 4.7 | 4.8 | 4.7 | 7.0 | 4.5 | 4.9 | 6.3 |

### Prevailing Wind #4

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DIR     | SSE | SW  | S   | S   | S   | NE  | N   | N   | SE  | SSW | SSW | SE  |
| %OCC    | 9   | 8   | 8   | 8   | 9   | 9   | 9   | 9   | 9   | 8   | 9   | 8   |
| AVG m/s | 6.2 | 7.8 | 6.5 | 7.3 | 6.2 | 4.2 | 6.1 | 5.7 | 4.1 | 7.0 | 7.2 | 4.7 |
| MED m/s | 6.2 | 7.4 | 5.9 | 7.4 | 6.0 | 4.3 | 5.6 | 5.3 | 4.2 | 6.8 | 6.9 | 4.6 |