Niagara County Eclipse Schedule

Time	Event
14:05:28	**Partial eclipse begins.** The moment the edge of the Moon touches the edge of the Sun is called first contact.
14:06*	**Moon bites Sun.** Using eclipse glasses, the eclipse starts to become visible to the eye.
14:27*	**Obscuration around 20%**. One-fifth of the area of the Sun's disk is covered by the Moon.
14:34*	**Temperature changes.** As the Moon covers the Sun, the amount of solar energy decreases.
14:42*	**Sharp & blurry shadows**. Shadow edges that are aligned with the Sun's narrowing crescent become sharper.
14:49*	**Darkness sets**. As the eclipse progresses, the sky starts to become noticeably darker.
14:56*	**Temperature, humidity & wind.** Conditions continue to change as the amount of solar energy decreases.
15:04	**Light levels & colors**. Surroundings start to darken, while colors start to turn grayish.
15:11*	**Reaction of nature.** The behavior of animals and plants starts to be affected by falling levels of light.
15:13*	**Dark shadow on horizon.** The Moon's umbral shadow may become visible as it approaches from the west.
15:16*	**Shadow bands.** Faint waves of light may be seen moving across the ground and walls.
15:18:27*	**Corona appears.** The corona—the outer part of the Sun's atmosphere—starts to become visible.
15:18:32*	**Dark shadow sweeps in.** The Moon's umbral shadow arrives from the west and envelops the surroundings.
15:18:37*	**Diamond ring.** The corona forms a ring around the dark Moon, while the Sun dazzles like a jewel.A jewel in the sky
15:18:42*	**Baily's beads.** Just before totality, beads of sunlight stream through valleys along the edge of the Moon.
15:18:47	**Totality begins. The moment the edge of the Moon covers all of the Sun is called second contact.**
15:18:48*	**Chromosphere.** The chromosphere—a thin, red layer of the Sun's atmosphere—is briefly visible.
15:18:49*	**Prominences.** Reddish, tounge-like prominences may poke out from the Sun during totality.
15:18:50*	**Corona.** During totality, the ghostly corona shines as brightly as a Full Moon.
15:20:36	**Maximum eclipse.** The deepest point of the eclipse, with the Sun at its most hidden.
15:22:19*	**Chromosphere.** Just before the end of totality, the chromosphere briefly reappears.
15:22:24	**Totality ends. The moment the edge of the Moon exposes the Sun is called third contact.**
15:22:25*	**Baily's beads.** A new set of Baily's beads appears, signalling the end of totality.
15:22:26*	**Shadow bands.** Faint waves of light may reappear along the ground and walls.
15:22:29*	**Diamond ring. B**aily's beads come together to form another dazzling jewel of sunlight.
15:22:39*	**Dark shadow sweeps out.** The Moon's umbral shadow departs toward the east.
15:22:44*	**Corona fades.** The ring of the corona around the Moon disappears from view.
15:27*	**Dark shadow on horizon.** The Moon's umbral shadow may be visible in the distance as it retreats to the east.
15:29*	**Nature returns to normal.** Animals and plants are going back to their usual behavior.
15:43*	**Light levels & temperature.** The conditions of the sky and surroundings are returning to normal.
16:11*	**Obscuration around 20%**. One-fifth of the area of the Sun's disk is covered by the Moon.
16:32:22	**Partial eclipse ends.** The moment the edge of the Moon leaves the edge of the Sun is called fourth contact.