

Apéndice A: Insolación global en México

Tabla A-1. Insolación global media inclinación a a latitud en México en kWh/m²-Día

Fuentes: Actualización de los Mapas de Irradiación Global solar en la República Mexicana (R. Almanza S., E. Cajigal R., J. Barrientos A. 1997)
Reportes de insolación de México. Southwest Technology Development Institute, NMSU, 1999

Estado	Ciudad	En	Fe	Ma	Ab	Ma	Ju	Ju	Ag	Se	Oc	No	Di	Mi	Ma	Me
Aguascalientes	Aguascalientes	4.5	5.2	5.9	6.6	7.2	6.3	6.	5.9	5.7	5.1	4.8	4.	4.0	7.2	5.6
Baja California Sur	La Paz	4.4	5.5	6.0	6.6	6.5	6.6	6.	6.2	5.9	5.8	4.9	4.	4.2	6.6	5.7
Baja California	Mexicali	4.1	4.4	5.0	5.6	6.6	7.3	7.	6.1	6.1	5.5	4.5	3.	3.9	7.3	5.5
Baja California	San Javier	4.2	4.6	5.3	6.2	6.5	7.1	6.	6.3	6.4	5.1	4.7	3.	3.7	7.1	5.5
Baja California Sur	S. José del Cabo	5.0	5.6	5.8	5.9	6.9	6.1	5.	6.2	5.8	5.8	5.2	4.	4.5	6.3	5.7
Campeche	Campeche	4.8	5.7	6.0	5.3	5.4	4.9	4.	5.3	5.2	5.4	5.0	4.	4.4	6.0	5.2
Chiapas	Arriaga	5.1	5.4	5.5	5.9	5.6	5.2	5.	5.5	5.1	5.3	5.1	4.	4.7	5.9	5.4
Chiapas	Juan Aldama	4.4	5.1	4.9	4.5	4.5	4.1	4.	4.5	4.1	4.3	4.4	4.	4.1	5.1	4.5
Chiapas	San Cristóbal	4.0	4.3	4.5	4.5	4.8	4.7	5.	5.3	4.6	4.2	3.9	3.	3.7	5.4	4.5
Chiapas	Tapachula	5.4	4.9	4.8	4.6	4.7	4.7	5.	5.1	4.6	4.1	4.3	4.	4.1	5.4	4.7
Chiapas	Tuxtla Gutiérrez	3.8	4.4	4.6	4.8	5.3	5.1	5.	5.3	4.9	4.4	4.1	3.	3.7	5.4	4.7
Chihuahua	Chihuahua	5.8	6.4	6.8	6.9	6.9	6.4	6.	6.5	6.8	6.8	6.0	5.	5.3	8.9	5.9
Chihuahua	Guachochi	3.3	3.5	3.9	4.4	5.1	5.3	5.	5.6	5.7	5.1	4.9	4.	3.3	6.9	6.4
Chihuahua	Cd. Juárez	6.0	7.2	7.3	7.3	6.9	6.5	6.	6.5	6.8	7.4	6.6	5.	5.9	7.4	6.7
Coahuila	Piedras Negras	3.1	3.6	4.2	4.5	4.8	6.0	6.	6.3	4.9	4.1	3.3	2.	2.9	6.7	4.5
Coahuila	Saltillo	3.8	4.2	4.8	5.1	5.6	5.9	5.	5.6	5.2	4.4	3.6	3.	3.3	5.9	4.8
Colima	Colima	4.4	5.1	5.3	5.8	6.0	5.2	4.	5.0	4.6	4.4	4.4	3.	3.9	6.0	4.9
D.F.	Tacubaya	5.4	6.0	6.4	5.9	5.3	5.1	4.	4.9	4.5	4.8	5.2	5.	4.5	6.4	5.3
Durango	Durango	4.4	5.4	6.5	7.0	7.5	6.8	6.	5.6	5.7	5.1	4.8	3.	3.9	7.5	5.7
Guanajuato	Guanajuato	4.4	5.1	6.1	6.3	6.6	6.0	6.	5.9	5.8	5.2	4.8	4.	4.4	6.6	5.6
Guerrero	Acapulco	4.8	5.3	6.1	5.9	5.6	5.1	5.	5.4	4.9	5.2	5.0	4.	4.7	6.1	5.3
Guerrero	Aguas Blancas	5.8	5.9	6.0	5.8	5.8	5.4	5.	5.8	5.5	5.6	5.5	5.	5.4	6.0	5.7
Guerrero	Chilpancingo	4.1	4.5	4.9	5.2	5.2	5.2	5.	5.1	4.7	4.4	4.1	3.	3.8	5.2	4.7
Hidalgo	Pachuca	4.6	5.1	5.6	6.8	6.0	5.7	5.	5.8	5.3	4.9	4.6	4.	4.2	6.8	5.4
Jalisco	Colotlán	4.6	5.7	6.5	7.5	8.2	6.6	5.	5.6	5.8	5.3	4.9	4.	4.1	8.2	5.9
Jalisco	Guadalajara	4.6	5.5	6.3	7.4	7.7	5.9	5.	5.3	5.2	4.9	4.8	4.	4.0	7.7	5.6
Jalisco	L. de Moreno	4.5	5.3	6.1	6.7	7.2	6.1	5.	5.6	5.5	5.0	4.7	4.	4.0	7.2	5.5
Jalisco	Puerto Vallarta	5.2	5.7	6.0	5.8	5.7	5.5	5.	5.7	5.5	5.6	5.2	4.	4.7	6.0	5.5
México	Chapingo	4.5	5.1	5.6	5.8	5.9	5.4	5.	5.2	5.0	4.7	4.6	3.	3.9	5.9	5.1

Estado	Ciudad	En	Fe	Ma	Ab	Ma	Ju	Ju	Ag	Se	Oc	No	Di	Mi	Ma	Me
Michoacán	Morelia	4.2	4.9	5.5	5.8	5.9	5.2	5.	5.1	4.9	4.6	4.3	3.	3.7	5.9	4.9
Nayarit	Tepic	3.9	4.3	4.8	5.5	6.1	5.3	4.	5.3	4.4	4.4	4.0	4.	3.9	6.1	4.8
Nuevo León	Monterrey	3.2	3.6	4.1	4.3	4.8	5.5	6.	5.6	5.0	3.8	3.3	3.	3.0	6.1	4.4
Oaxaca	Oaxaca	4.9	5.7	5.8	5.5	6.0	5.4	5.	5.6	5.0	4.9	4.8	4.	4.4	6.0	5.3
Oaxaca	Salina Cruz	5.4	6.3	6.6	6.4	6.1	5.0	5.	5.9	5.2	5.9	5.7	5.	5.0	6.6	5.8
Puebla	Puebla	4.9	5.5	6.2	6.4	6.1	5.7	5.	5.8	5.2	5.0	4.7	4.	4.4	6.4	5.5
Querétaro	Querétaro	5.0	5.7	6.4	6.8	6.9	6.4	6.	6.4	6.3	5.4	5.0	4.	4.4	6.9	5.9
QuintanaRoo	Chetumal	3.9	4.7	5.4	5.7	5.3	4.7	4.	5.0	4.5	4.4	4.0	3.	3.7	5.7	4.7
QuintanaRoo	Cozumel	3.9	4.6	5.3	5.7	5.2	4.8	4.	4.9	4.6	4.4	4.0	3.	3.8	5.7	4.7
San Luis Potosí	Río Verde	3.6	4.0	4.6	4.9	5.4	5.6	5.	5.8	5.1	4.3	3.7	3.	3.3	5.8	4.7
San Luis Potosí	San Luis Potosí	4.3	5.3	5.8	6.4	6.3	6.1	6.	6.0	5.5	4.7	4.2	3.	3.7	6.4	5.4
Sinaloa	Culiacán	3.6	4.2	4.8	5.4	6.2	6.2	5.	5.1	5.2	4.6	4.2	3.	3.4	6.2	4.9
Sinaloa	Los Mochis	4.9	5.4	5.8	5.9	5.8	5.8	5.	5.5	5.5	5.8	4.9	4.	4.3	5.9	5.4
Sinaloa	Mazatlan	3.9	4.8	5.4	5.7	5.7	5.6	4.	4.9	4.7	5.0	4.5	3.	3.9	5.7	4.9
Sonora	Ciudad Obregón	5.8	6.4	6.8	6.9	6.9	6.7	6.	6.5	6.8	7.3	6.0	5.	5.3	7.2	6.5
Sonora	Guaymas	4.5	5.7	6.5	7.2	7.3	6.8	5.	5.8	6.3	5.9	5.1	5.	4.5	7.3	6.0
Sonora	Hermosillo	4.0	4.6	5.4	6.6	8.3	8.6	6.	6.6	6.7	6.0	4.7	3.	3.9	8.6	6.0
Tamaulipas	Soto la Marina	3.4	4.2	4.9	4.9	5.1	5.3	5.	5.4	4.9	4.6	3.7	3.	3.2	5.4	4.6
Tamaulipas	Tampico	3.3	4.1	4.7	6.4	5.0	4.9	4.	4.9	4.6	4.6	3.7	3.	3.2	6.4	4.5
Tlaxcala	Tlaxcala	4.6	5.1	5.5	5.4	5.6	5.2	5.	5.2	5.1	4.9	4.7	4.	4.0	5.6	5.1
Veracruz	Córdoba	3.1	3.3	3.6	3.8	4.1	4.4	4.	4.5	4.1	3.5	3.1	2.	2.8	4.6	3.7
Veracruz	Jalapa	3.2	3.5	3.8	4.3	4.6	4.4	4.	5.0	4.4	3.7	3.3	3.	3.0	5.0	4.0
Veracruz	Veracruz	3.7	4.5	4.9	5.1	5.1	4.8	4.	5.1	4.6	4.8	4.1	3.	3.6	5.1	4.6
Yucatán	Mérida	3.7	4.0	4.6	5.2	5.7	5.5	5.	5.5	5.0	4.2	3.8	3.	3.4	5.7	4.7
Yucatán	Progreso	4.1	4.9	5.4	5.5	5.3	5.1	5.	5.3	5.0	5.0	4.4	4.	4.0	5.5	4.9
Yucatán	Valladolid	3.7	4.1	3.1	5.4	5.7	5.3	5.	5.4	4.9	4.2	3.8	3.	3.1	5.7	4.5
Zacatecas	Zacatecas	4.9	5.7	6.6	7.5	7.8	6.2	6.	5.9	5.4	4.8	4.8	4.	4.1	7.8	5.8