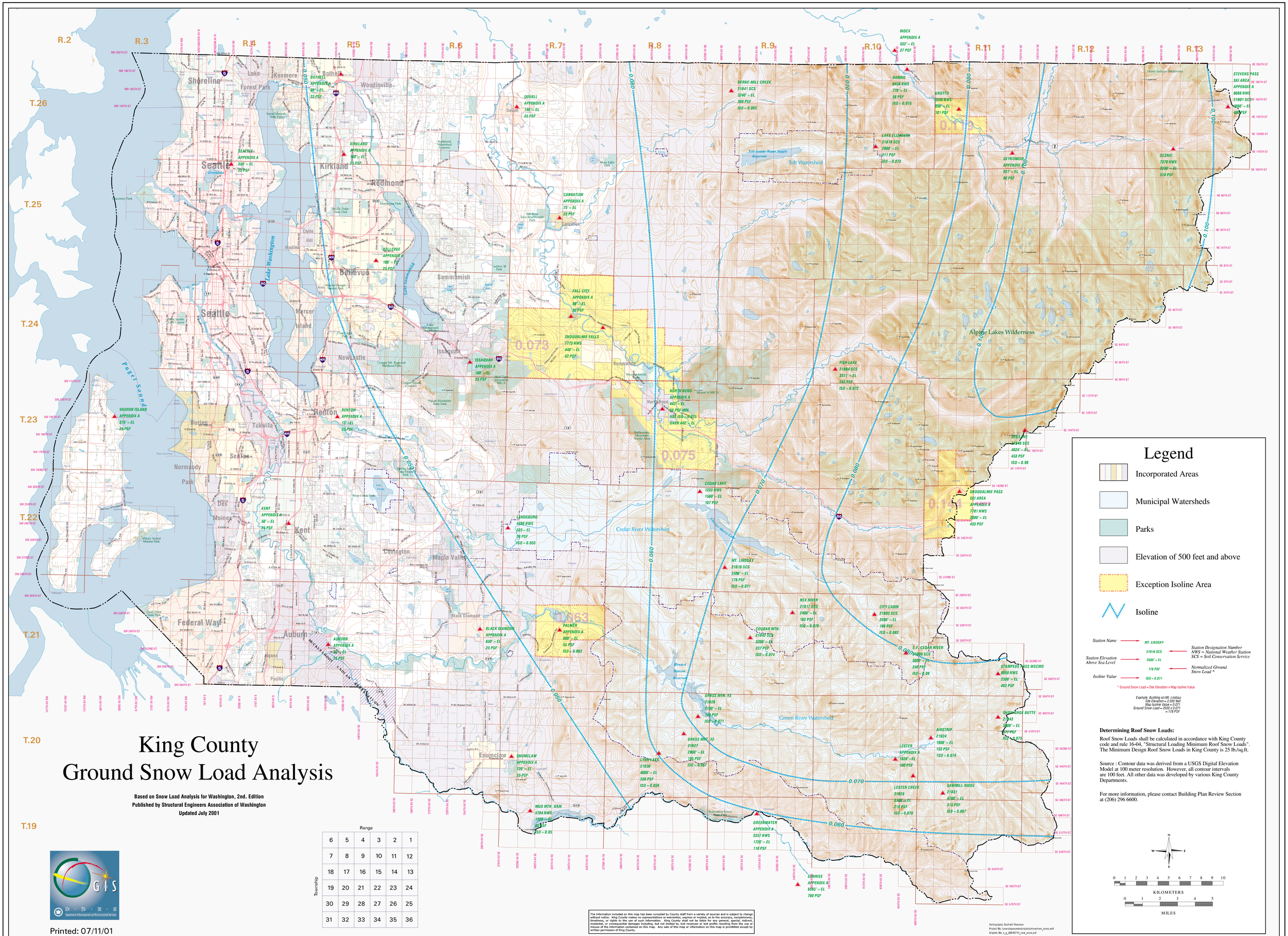
King County
Ground Snow Load Analysis
Based on Snow Load Analysis for Washington, 2nd. Edition
Published by Structural Engineers Association of Washington
Updated July 2001
Printed: 07/11/01
Legend
Incorporated Areas
Municipal Watersheds
Parks
Elevation of 500 feet and above
Exception Isoline Area
Isoline
Station Name
MT. LINDSAY
Station Elevation Above Sea Level
2500' = EL
Isoline Value
ISO = 0.071
Station Designation Number
NWS = National Weather Station
SCS = Soil Conservation Service
Normalized Ground Snow Load *
* Ground Snow Load = Site Elevation x Map Isoline Value
Example: Building on Mt. Lindsay
Site Elevation = 2,500 feet
Map Isoline Value = 0.071
Ground Snow Load = 2500 x 0.071
= 178 PSF
Determining Roof Snow Loads:
Roof Snow Loads shall be calculated in accordance with King County code and rule 16-04, "Structural Loading Minimum Roof Snow Loads". The Minimum Design Roof Snow Loads in King County is 25 lb./sq.ft.
Source : Contour data was derived from a USGS Digital Elevation Model at 100 meter resolution. However, all contour intervals are 100 feet. All other data was developed by various King County Departments.
For more information, please contact Building Plan Review Section at (206) 296 6600.
KILOMETERS
MILES
Range
Township
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Cartography: Sushant Vasuwan
Project file: /users/gis/sewardrojects/snowhew_snow.aml
Graphic file: s_y_0080701_new_snow.pdf
R.2
R.3
R.4
R.5
R.6
R.7
R.8
R.9
R.10
R.11
R.12
R.13
T.26
T.25
T.24
T.23
T.22
T.21
T.20
T.19
Shoreline
Lake Forest Park
Kenmore
Bothell
Woodinville
Seattle
Kirkland
Redmond
Bellevue
Sammamish
Issaquah
Mercer Island
Newcastle
Renton
Burien
Tukwila
Normandy Park
Des Moines
Kent
Covington
Maple Valley
Black Diamond
Federal Way
Auburn
Enumclaw
Lake Washington
Lake Sammamish
Puget Sound
Tolt Watershed
Cedar River Watershed
Green River Watershed
Alpine Lakes Wilderness
Henry Jackson Wilderness
BOTHELL APPENDIX A 80' = EL 25 PSF
DUVALL APPENDIX A 140' = EL 25 PSF
KIRKLAND APPENDIX A 90' = EL 25 PSF
SEATTLE APPENDIX A 350' = EL 25 PSF
BELLEVUE APPENDIX A 100' = EL 25 PSF
CARNATION APPENDIX A 75' = EL 25 PSF
FALL CITY APPENDIX A 90' = EL 30 PSF
SNOQUALMIE FALLS 2773 NWS 440' = EL 32 PSF
ISSAQUAH APPENDIX A 100' = EL 25 PSF
VASHON ISLAND APPENDIX A 375' = EL 25 PSF
RENTON APPENDIX A 15' = EL 25 PSF
KENT APPENDIX A 50' = EL 25 PSF
AUBURN APPENDIX A 50' = EL 25 PSF
BLACK DIAMOND APPENDIX A 650' = EL 25 PSF
ENUMCLAW APPENDIX A 720' = EL 25 PSF
MUD MTN. DAM 5704 NWS 1580' = EL 55 PSF ISO = 0.05
BERNE-HILL CREEK 21041 SCS 3240' = EL 208 PSF ISO = 0.085
INDEX APPENDIX A 532' = EL 37 PSF
BARING 0458 NWS 770' = EL 58 PSF ISO = 0.075
GROTTO 3388 NWS 850' = EL 101 PSF
LAKE ELIZABETH 21019 SCS 2900' = EL 211 PSF ISO = 0.073
SKYKOMISH APPENDIX A 931' = EL 80 PSF
SCENIC 7379 NWS 2220' = EL 518 PSF
STEVENS PASS SKI AREA APPENDIX A 8089 NWS 21801 SCS 4950' = EL 400 PSF
FISH LAKE 21804 SCS 3371' = EL 243 PSF ISO = 0.072
NORTH BEND APPENDIX A 442' = EL 33 PSF MIN. USE ISO = 0.075 OVER 442' = EL
JOE LEWIS 21846 SCS 4624' = EL 453 PSF ISO = 0.98
SNOQUALMIE PASS SKI AREA APPENDIX A 7781 NWS 3000' = EL 433 PSF
CEDAR LAKE 1233 NWS 1560' = EL 107 PSF
LANDSBURG 4485 NWS 525' = EL 28 PSF ISO = 0.053
MT. LINDSAY 21816 SCS 2500' = EL 178 PSF ISO = 0.071
REX RIVER 21817 SCS 2400' = EL 183 PSF ISO = 0.076
CITY CABIN 21803 SCS 2390' = EL 186 PSF ISO = 0.082
COUGAR MTN. 21042 SCS 3200' = EL 237 PSF ISO = 0.074
S.F. CEDAR RIVER 21008 SCS 3000' = EL 240 PSF ISO = 0.08
STAMPEDE PASS WSCMO 8003 NWS 2500' = EL 463 PSF
PALMER APPENDIX A 800' = EL 55 PSF ISO = 0.063
GRASS MTN. #3 21828 2100' = EL 149 PSF ISO = 0.071
GRASS MTN. #2 21827 2800' = EL 185 PSF ISO = 0.067
SNOW-SHOE BUTTE 21843 3800' = EL 199 PSF ISO = 0.075
AIRSTRIP 21824 1800' = EL 133 PSF ISO = 0.074
LESTER APPENDIX A 1620' = EL 100 PSF
LYNN LAKE 21850 4000' = EL 236 PSF ISO = 0.059
LESTER CREEK 21829 3300' = EL 218 PSF ISO = 0.070
SAWMILL RIDGE 21831 4100' = EL 315 PSF ISO = 0.067
GREENWATER APPENDIX A 3357 NWS 1720' = EL 118 PSF
SUNRISE APPENDIX A 6385' = EL 760 PSF
0.050
0.060
0.070
0.080
0.100
0.073
0.075
0.110
0.118
TWS3