

# ET Connection

State	Application Area	ET Method	Ref Crop	Contact	Contact Information	e-mail address Internet Site
AL *	all	Penman	grass	Rodger R. Getz, President	AWIS Weathwr Services, Inc., 1735 East University Dr., Suite 101, PO Box 3267, Auburn, AL 36831-3267, Phone (334) 826-2149 x 104, FAX (334) 826-2152, Toll Free (888) 798-9955 ext. 104	<a href="mailto:rgetz@awis.com">rgetz@awis.com</a> <a href="http://www.awis.com">http://www.awis.com</a> *
AK						
AZ	Central, Southern, Western	Stdz. PM	grass	Dr. Paul Brown	Extension Specialist, Biometeorology Soils, Water, and Environmental Science Dept. (SWES), University of Arizona, 429 Shantz Bldg. #38, Tucson, AZ 85721 Fax: (520) 621-1647 (Attn: TO AZMET)	<a href="mailto:azmet@ag.arizona.edu">azmet@ag.arizona.edu</a> <a href="http://ag.arizona.edu/azmet/">http://ag.arizona.edu/azmet/</a>
CA	Northern	82 KP	alfalfa	AGRIMET Mr. Peter Palmer	AgriMet Coordinator, USDI - Bureau of Reclamation, 1150 North Curtis Road, Boise, ID 83706-1234, Phone (208) 378-5283	<a href="mailto:ppalmer@pn.usbr.gov">ppalmer@pn.usbr.gov</a> <a href="http://www.usbr.gov/pn/agrimet/">http://www.usbr.gov/pn/agrimet/</a>
CA	all	CIMIS - 77 PM hourly	grass	CIMIS Dr. Richard Snyder	Biometeorologist, University of California, Davis, Department of Land, Air and Water Resources. Davis, CA 95616-8627	<a href="mailto:rsnyder@ucdavis.edu">rsnyder@ucdavis.edu</a> <a href="http://www.owue.water.ca.gov/">http://www.owue.water.ca.gov/</a>
CA	all	CIMIS - Mod. Pen.	grass	CIMIS Dr. Simon Eching Dr. Baryohay Davidoff	California Irrigation Management Information System (CIMIS), California Department of Water Resources 1020 9 <sup>th</sup> Street, Sacramento, CA 95814, Phone (916) 327-1618	<a href="mailto:seching@water.ca.gov">seching@water.ca.gov</a> <a href="mailto:baryohay@water.ca.gov">baryohay@water.ca.gov</a> <a href="http://www.owue.water.ca.gov/">http://www.owue.water.ca.gov/</a>
CA	all	CIMIS	grass	WaterRight Dr. David F. Zoldoske	Director, Center for Irrigation Technology, California State University - Fresno, 5370 N. Chestnut Avenue M/S 18, Fresno, CA 93740-8021, Phone (559) 278-2066,	<a href="mailto:david_zoldoske@csufresno.edu">david_zoldoske@csufresno.edu</a> <a href="http://www.wateright.org">http://www.wateright.org</a>
CO	Northeast	PM (ag)  PM (Turf)	alfalfa-  grass -	Mark Crookston	No. CO Water Conservancy Dist., 220 Water Avenue, Berthoud, CO 80537, Phone [Mark] (970) 532-7700 x 2262, [ FAX (970) 532-0942	<a href="mailto:mcrookston@ncwcd.org">mcrookston@ncwcd.org</a> <a href="http://www.ncwcd.org">http://www.ncwcd.org</a>
CO	C Springs	PM	grass	Scott Winter	Colorado Springs Water Utility Office, 2855 Mesa Rd., Colorado Springs, CO 80904, Tel. (719) 668-4590	<a href="mailto:swinter@csu.org">swinter@csu.org</a> <a href="http://www.csu.org/environment/conservation_researches/water/page17904.html">http://www.csu.org/environment/conservation_researches/water/page17904.html</a>
CO	all	82 KP	alfalfa	CoAgMet Nolan Doesken	CSU - Atmospheric Sciences, Fort Collins, CO, Phone (970) 491-8545	<a href="mailto:Nolan@atmos.colostate.edu">Nolan@atmos.colostate.edu</a> <a href="http://ccc.atmos.colostate.edu">http://ccc.atmos.colostate.edu</a>
CO	part	Mod. Pen.	alfalfa	AgMet - Ken Hubbard	Nebraska High Plains Center - 236 Chase Hall, Univ. of Neb., Lincoln, NE 68583, Tel. (402) 472-6706, Fax. (402) 472-6614, Info. (402) 472-6709	<a href="http://www.hprcc.unl.edu/">http://www.hprcc.unl.edu/</a>
CT *		PM	grass (?)	Art DeGaetano	Northeast Regional Climate Center, Cornell University	<a href="mailto:atd2@cornell.edu">atd2@cornell.edu</a> <a href="http://www.nrcc.cornell.edu/">http://www.nrcc.cornell.edu/</a> <a href="http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html">http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html</a>
DE *		PM	grass (?)	Art DeGaetano	Northeast Regional Climate Center, Cornell University	<a href="mailto:atd2@cornell.edu">atd2@cornell.edu</a> <a href="http://www.nrcc.cornell.edu/">http://www.nrcc.cornell.edu/</a> <a href="http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html">http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html</a>
DE	Sussex Co.	PM	grass	Dean Dey	CES Research and Education Center, RD 6 Box 48, Georgetown, DE 19947, Phone (302) 856-7303 x 324	<a href="mailto:dey@udel.edu">dey@udel.edu</a> <a href="http://www.rec.udel.edu">http://www.rec.udel.edu</a>
FL	SW Florida Water Mgt Dist	Mod BC (AGMOD)	grass	Ron Cohen, P.E.	Agricultural and Irrigation Engineer, Southwest Florida Water Management District, 2379 Broad Street, Brooksville, Florida 34609, (352) 796-7211 ext 4300, Fax (352) 544 2328.	<a href="mailto:ron_cohen@swfwmd.state.fl.us">ron_cohen@swfwmd.state.fl.us</a> <a href="http://www.swfwmd.state.fl.us/">http://www.swfwmd.state.fl.us/</a>
FL	Suwannee River Water Mgt. Dist.	SCS BC	grass	William H. Kirk, P.G.	Suwannee River Water Management District, 9225 County Road 49, Live Oak, FL 32060, (800) 226-1066, in FL (904) 362-1001, FAX (904) 362-1056	<a href="mailto:kirk_b@swfwmd.state.fl.us">kirk_b@swfwmd.state.fl.us</a> <a href="http://www.swfwmd.state.fl.us/">http://www.swfwmd.state.fl.us/</a>
GA		Priestley-Taylor	PET	Gerrit Hoogenboom	Department of Biological and Agricultural Engineering, University of Georgia, Griffen, GA 30223, Phone (770) 229-3438, FAX (770) 228-7218	<a href="mailto:gerrit@uga.edu">gerrit@uga.edu</a> <a href="http://www.engr.uga.edu/">http://www.engr.uga.edu/</a>
HI						
ID	Southern part	82 KP	alfalfa	AGRIMET Mr. Peter Palmer	AgriMet Coordinator, USDI - Bureau of Reclamation, 1150 North Curtis Road, Boise, ID 83706-1234, Phone (208) 378-5283	<a href="mailto:ppalmer@pn.usbr.gov">ppalmer@pn.usbr.gov</a> <a href="http://www.usbr.gov/pn/agrimet/">http://www.usbr.gov/pn/agrimet/</a>
ID	all	FAO-BC	alfalfa	IDWR	Idaho Dept. Water Resources, 322 E Front St., P.O. Box 83720, Boise, ID 83720-0098, Phone (208) 287-4800 FAX (208) 287-6700	<a href="mailto:IDWRinfo@idwr.idaho.gov">IDWRinfo@idwr.idaho.gov</a> <a href="http://www.idwr.idaho.gov/gisdata/new%20data%20download/et-data.htm">http://www.idwr.idaho.gov/gisdata/new%20data%20download/et-data.htm</a>

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State	Application Area	ET Method	Ref Crop	Contact	Contact Information	e-mail address Internet Site
ID	all	FAO-Dual Crops Coefficients PM	alfalfa grass	Dr. Richard G. Allen	University of Idaho Research and Extension Center, Kimberly, Idaho 83341 208 423 6601	<a href="mailto:rallen@kimberly.uidaho.edu">rallen@kimberly.uidaho.edu</a> <a href="http://www.kimberly.usidaho.edu/">www.kimberly.usidaho.edu/</a>
ID	Southern part	82 KP	alfalfa	WaterRight Dr. David F. Zoldoske	Director, Center for Irrigation Technology, California State University – Fresno, 5370 N. Chestnut Avenue M/S 18, Fresno, CA 93740-8021, Phone (559) 278-2066, FAX (559) 278-6033	<a href="mailto:david_zoldoske@csufresno.edu">david_zoldoske@csufresno.edu</a> <a href="http://www.waterright.org">http://www.waterright.org</a>
IA				Dr. Richard Carlson	Professor of Climatology, Dept. Agronomy, Iowa State University	<a href="mailto:richard@iastate.edu">richard@iastate.edu</a>
IA				Dr. Jerry Hatfield	Director of the USDA National Soil Tilth Lab, Ames, IA	<a href="mailto:hatfield@iastate.edu">hatfield@iastate.edu</a> <a href="http://www.ars.usda.gov/mwa/ames/nstl">http://www.ars.usda.gov/mwa/ames/nstl</a>
IL	all	Thornthwaite		Don Pitts	USDA - NRCS, 2118 West Park Court, Champaign, IL 61821, Phone (217) 353-6632	<a href="mailto:don.pitts@il.usda.gov">don.pitts@il.usda.gov</a> <a href="http://www.nrcs.usda.gov/">http://www.nrcs.usda.gov/</a>
IL	Champaign	Evap Pan		Audrey Bryan	State Water Survey, Univ. of IL, 2204 Griffith Dr., Champaign, IL 61820	<a href="mailto:wxobserv@sws.uluc.edu">wxobserv@sws.uluc.edu</a>
IN		PM			Indian State Climate Office Purdue University	<a href="http://www.agry.purdue.edu/climate/et.asp">http://www.agry.purdue.edu/climate/et.asp</a>
KS	all	Mod. Pen.	alfalfa	Dr. Freddie Lamm Dr. Danny Rogers Dr. Mahbub Alam Dr. Gary Clark	Professors, Research or Extension Engineers with Kansas State University	<a href="mailto:flamm@oz.oznet.ksu.edu">flamm@oz.oznet.ksu.edu</a> <a href="mailto:drogers@bae.ksu.edu">drogers@bae.ksu.edu</a> <a href="mailto:malam@oz.oznet.ksu.edu">malam@oz.oznet.ksu.edu</a> <a href="mailto:ttrouien@oz.oznet.ksu.edu">ttrouien@oz.oznet.ksu.edu</a> <a href="mailto:gclark@falcon.bae.ksu.edu">gclark@falcon.bae.ksu.edu</a> <a href="http://www.oznet.ksu.edu/">http://www.oznet.ksu.edu/</a>
KS	South Central GMD #2	Mod. Pen.	grass	Tim Boese	Manager, Equus Beds Groundwater Management District #2, 313 Spruce St., Halstead, KS 67056-1925, Phone (316) 835-2224, FAX (316) 835-2225	<a href="mailto:equusbed@ink.org">equusbed@ink.org</a> <a href="http://www.gmd2.org">http://www.gmd2.org</a>
KS	Southwest GMD #3	Mod. Pen.	alfalfa	Kent Shaw	Southwest Kansas Groundwater Management District #3, 409 Campus Drive, Garden City, KS 67846, (316) 275-7147	<a href="mailto:kentshaw@midusa.net">kentshaw@midusa.net</a> <a href="http://www.ink.org/public/ksqgm">http://www.ink.org/public/ksqgm</a>
KS	Northwest GMD #4	Mod. Pen.	alfalfa	Wayne Bossert	Northwest Kansas Groundwater Management District #4, PO Box 905, Colby, KS 67701, phone (785) 462-3915	<a href="mailto:wab@gmd4.org">wab@gmd4.org</a> <a href="http://www.gmd4.org">http://www.gmd4.org</a>
KS	South Central, GMD #5	PM	grass	Sharon Falk – Manager Joe Allen – Conservation Specialist	Big Bend Groundwater Management District #5, PO Box 7, Stafford, KS 67578, phone (316)234-5352	<a href="mailto:gmd5@midway.net">gmd5@midway.net</a> <a href="http://www.gmd5.org/">http://www.gmd5.org/</a>
KS		Mod. Pen.	alfalfa	Dr. Ken Hubbard, Director	High Plains Climate Center Automated Weather Data Network (AWDN) – 236 Chase Hall, Univ. of Neb., Lincoln, NE 68583 Tel. (402) 472-6706, Fax. (402)472-6614, Info. (402) 472-6709	<a href="mailto:khubbard@hpccsun.unl.edu">khubbard@hpccsun.unl.edu</a> <a href="http://www.hprcc.unl.edu/awdn/">http://www.hprcc.unl.edu/awdn/</a>
KY				Dr. Richard C. Warner	KY Cooperative Extension , University of Kentucky, Biosystems and Agricultural Engineering Dept., C.E. Barnhart Bldg., Lexington, KY 40546-0276, Phone (859) 257-3000 ext. 217	<a href="mailto:rwarnr@bae.uky.edu">rwarnr@bae.uky.edu</a> <a href="http://www.bae.uky.edu/EXT/">http://www.bae.uky.edu/EXT/</a>
ME *		PM	grass (?)	Art DeGaetano	Northeast Regional Climate Center, Cornell University	<a href="mailto:atd2@cornell.edu">atd2@cornell.edu</a> <a href="http://www.nrcc.cornell.edu/">http://www.nrcc.cornell.edu/</a> <a href="http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html">http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html</a>
MD *		PM	grass (?)	Art DeGaetano	Northeast Regional Climate Center, Cornell University	<a href="mailto:atd2@cornell.edu">atd2@cornell.edu</a> <a href="http://www.nrcc.cornell.edu/">http://www.nrcc.cornell.edu/</a> <a href="http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html">http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html</a>
MA *		PM	grass (?)	Art DeGaetano	Northeast Regional Climate Center, Cornell University	<a href="mailto:atd2@cornell.edu">atd2@cornell.edu</a> <a href="http://www.nrcc.cornell.edu/">http://www.nrcc.cornell.edu/</a> <a href="http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html">http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html</a>
MI					Michigan State University Enviro-weather MSU Agricultural Weather Office3	<a href="http://www.enviroweather.msu.edu/home_alpha/alist.asp">http://www.enviroweather.msu.edu/home_alpha/alist.asp</a> <a href="http://www.agweather.geo.msu.edu/">http://www.agweather.geo.msu.edu/</a>
MN				Bill Bland	WI-MN Cooperative Extension Agricultural Weather Page	<a href="mailto:wbland@facstaff.wisc.edu">wbland@facstaff.wisc.edu</a> <a href="http://www.soils.wisc.edu/wimnext/et/wimnet.html">http://www.soils.wisc.edu/wimnext/et/wimnet.html</a>
MN	Selected Sites	Mod. Pen. & mod. JH	alfalfa	Jerry Wright	West Central Research and Outreach Center, Morris, Minnesota (320) 589-1711	<a href="mailto:jwright1@extension.umn.edu">jwright1@extension.umn.edu</a> <a href="http://wcroc.cfans.umn.edu/">http://wcroc.cfans.umn.edu/</a>

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State	Application Area	ET Method	Ref Crop	Contact	Contact Information	e-mail address Internet Site
MN	Selected Sites	Mod. Pen. & mod. JH	alfalfa	Mark Seeley	Dept. of Soil, Water, and Climate, Univ. of Minnesota (617) 625-4724	<a href="mailto:mseeley@soils.umn.edu">mseeley@soils.umn.edu</a> <a href="http://www.soils.umn.edu/">http://www.soils.umn.edu/</a>
MS		PM	Grass		Louisiana Ag Center Jay Grymes 225-578-6870	<a href="http://www2.lsuagcenter.com/weather/mississippiIndex.asp">http://www2.lsuagcenter.com/weather/mississippiIndex.asp</a>
MO	all	Mod. PM	grass	Pat Guinan	University of Missouri-Columbia, 100 Gentry Hall, Columbia, MO 65211	<a href="mailto:agpg@showme.missouri.edu">agpg@showme.missouri.edu</a> <a href="http://www.missouri.edu/">http://www.missouri.edu/</a>
MT	West side	82 KP	alfalfa	AGRIMET Mr. Peter Palmer	AgriMet Coordinator, USDI - Bureau of Reclamation, 1150 North Curtis Road, Boise, ID 83706-1234, Phone (208) 378-5283	<a href="mailto:ppalmer@pn.usbr.gov">ppalmer@pn.usbr.gov</a> <a href="http://www.usbr.gov/pn/agrimet/">http://www.usbr.gov/pn/agrimet/</a>
MT	East side	82 KP	alfalfa	AGRIMET Mr. Tim Grove	AgriMet Coordinator, USDI - Bureau of Reclamation, PO Box 36900, Billings, MT 51907-6900	<a href="mailto:tgrove@gp.usbr.gov">tgrove@gp.usbr.gov</a> <a href="http://www.usbr.gov/gp/agrimet/">http://www.usbr.gov/gp/agrimet/</a>
MT	all	82 KP	alfalfa	WaterRight Dr. David F. Zoldoske	Director, Center for Irrigation Technology, California State University – Fresno, 5370 N. Chestnut Avenue M/S 18, Fresno, CA 93740-8021, Phone (559) 278-2066, FAX (559) 278-6033	<a href="mailto:david_zoldoske@csufresno.edu">david_zoldoske@csufresno.edu</a> <a href="http://www.wateright.org">http://www.wateright.org</a>
NC		Thornwaite		Dr. D. C. Sanders	Extension Horticultural Specialist, Department of Horticultural Science, NC Cooperative Extension Service, North Carolina State University	<a href="http://www.ces.ncsu.edu/depts/hort/hil/hil-33-e.html">http://www.ces.ncsu.edu/depts/hort/hil/hil-33-e.html</a>
ND	All	Jensen-Haise	grass & alfalfa	Dr. Thomas F. Scherer	Extension Engineer, NDSU Ext. Agricultural Engineering, 1221 Albrecht Ave., Box 5626, Fargo, ND, 58105-5626, phone (701) 231-7239, FAX (701) 231-1008	<a href="mailto:tscherer@ndsuxext.nodak.edu">tscherer@ndsuxext.nodak.edu</a> <a href="http://ndawn.ndsu.nodak.edu/applications.html">http://ndawn.ndsu.nodak.edu/applications.html</a>
ND	All	Mod. Pen	grass	Dr. John W. Enz, North Dakota Ag. Weather Network (NDAWN)	Agricultural Climatologist, Professor - Dept. of Soil Science, Box 5638, North Dakota State University, Fargo, ND 58105-5758, Phone (701) 231-8576, FAX (701) 231-7861	<a href="mailto:jenz@badlands.nodak.edu">jenz@badlands.nodak.edu</a> <a href="http://ndawn.ndsu.nodak.edu/">http://ndawn.ndsu.nodak.edu/</a> <a href="http://www.ext.nodak.edu/weather/cropwater/turfgrass/">http://www.ext.nodak.edu/weather/cropwater/turfgrass/</a>
NE		Mod. Pen.	alfalfa	Dr. Ken Hubbard, Director	High Plains Climate Center Automated Weather Data Network (AWDN) - 236 Chase Hall, University of Neb., Lincoln, NE 68583 Tel. (402) 472-6706, Fax. (402) 472-6614 Info: (402) 472-6709	<a href="mailto:khubbard@hpccsun.unl.edu">khubbard@hpccsun.unl.edu</a> <a href="http://www.hpcc.unl.edu/awdn/">http://www.hpcc.unl.edu/awdn/</a>
NV				Dr. D.A. Devitt	University of Nevada Cooperative Extension	<a href="http://www.unce.unr.edu/publications/files/nr/2002/FS0290.pdf">http://www.unce.unr.edu/publications/files/nr/2002/FS0290.pdf</a>
NH *		PM	grass (?)	Art DeGaetano	Northeast Regional Climate Center, Cornell University	<a href="mailto:atd2@cornell.edu">atd2@cornell.edu</a> <a href="http://www.nrcc.cornell.edu/">http://www.nrcc.cornell.edu/</a> <a href="http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html">http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html</a>
NJ *		PM	grass (?)	Art DeGaetano	Northeast Regional Climate Center, Cornell University	<a href="mailto:atd2@cornell.edu">atd2@cornell.edu</a> <a href="http://www.nrcc.cornell.edu/">http://www.nrcc.cornell.edu/</a> <a href="http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html">http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html</a>
NJ *	South and Central	Mod. PM	grass	Steve Quesenberry	Coordinator, South Jersey RC&D, 251 Bellevue Ave., Hammonton, NJ 08037, Phone (609) 561-3223	<a href="mailto:steve.quesenberry@nj.usda.gov">steve.quesenberry@nj.usda.gov</a>
NJ *	South and Central	Evap Pan		Keith Arneson	Rutgers Extension Staff Meteorologist, Environmental Sciences, Rutgers University, 14 College Farm Road, New Brunswick, NJ 08901-8551, Phone (732) 932-9551	<a href="mailto:arnesen@envsci.rutgers.edu">arnesen@envsci.rutgers.edu</a>
NM	all			Dr. Ted Sammis	Professor of Plant and Environmental Science, MSC 3Q, New Mexico State University, Las Cruces, NM, Phone 646-2104	<a href="mailto:tsammis@nmsu.edu">tsammis@nmsu.edu</a> <a href="http://weather.nmsu.edu/">http://weather.nmsu.edu/</a>
NY *		PM	grass (?)	Art DeGaetano	Northeast Regional Climate Center, Cornell University	<a href="mailto:atd2@cornell.edu">atd2@cornell.edu</a> <a href="http://www.nrcc.cornell.edu/">http://www.nrcc.cornell.edu/</a> <a href="http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html">http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html</a>
OH		Weather Parameters and Evap Pan		Dr. Jim R. Holman	Computing and Statistical Services, Ohio Agric. Res. and Dev. Ctr., Ohio State University, 1680 Madison Ave. Wooster, OH 44691, Phone 330/263-3772, FAX 330/263-3784	<a href="mailto:holman.2@osu.edu">holman.2@osu.edu</a> <a href="http://www.oardc.ohio-state.edu/weather">http://www.oardc.ohio-state.edu/weather</a>
OK	all	PM	grass	Mesonet, Dr. Mike Kizer	Extension Irrigation Specialist, Oklahoma State University, Biosystems & Ag. Engr. Department, 228 Ag Hall, Stillwater, OK 74078, Phone (405) 744-8421, FAX (405) 744-6059	<a href="mailto:mkizer@okstate.edu">mkizer@okstate.edu</a> <a href="http://okmesonet.ocs.ou.edu/">http://okmesonet.ocs.ou.edu/</a>

## ET Connection

State	Application Area	ET Method	Ref Crop	Contact	Contact Information	e-mail address Internet Site
OK	all	PM	grass	Mesonet, Dr. J.D Carlson	Mesonet Ag Meteorologist, Oklahoma State University, Biosystems & Ag. Engr. Department, 217 Ag Hall, Stillwater, OK 74078, Phone (405) 744-6353, FAX (405) 744-6059	<a href="mailto:jdc@okstate.edu">jdc@okstate.edu</a> <a href="http://agweather.mesonet.org">http://agweather.mesonet.org</a>
OK	southwest			Donna Kirby	Manager, Lugert-Altus Irrig. Dist., (Mesonet ET Products for SW OK)	<a href="http://www.usbr.gov/">http://www.usbr.gov/</a>
OK				Weather and Climatological Data		<a href="http://climate.ok.gov/">http://climate.ok.gov/</a>
OR	all	82 KP	alfalfa	AGRIMET Mr. Peter Palmer	AgriMet Coordinator, USDI - Bureau of Reclamation, 1150 North Curtis Road, Boise, ID 83706-1234, Phone (208) 378-5283	<a href="mailto:ppalmer@pn.usbr.gov">ppalmer@pn.usbr.gov</a> <a href="http://www.usbr.gov/pn/agrimet/">http://www.usbr.gov/pn/agrimet/</a>
OR	all	PM	Grass	Dr. Richard Cuenca	Dept. Bioresources Engineering, Gilmore Hall, Oregon State University, Corvallis, OR 97331-3906 Tel. (541) 737-6307 Fax, (541) 737-4082	<a href="mailto:Richard.cuenca@oregonstate.edu">Richard.cuenca@oregonstate.edu</a> <a href="http://www.bioe.orst.edu/Faculty/cuenca/index.htm">http://www.bioe.orst.edu/Faculty/cuenca/index.htm</a>
OR	western			John Selker et.al.	Dept. Bioresources Engineering, Oregon State University, Corvallis, OR 97331-3906, (541) 737-6304	<a href="mailto:selkerj@ccmail.orst.edu">selkerj@ccmail.orst.edu</a> <a href="http://www.bioe.orst.edu/">http://www.bioe.orst.edu/</a>
OR	Eastern & central basin	82 KP	alfalfa	WaterRight Dr. David F. Zoldoske	Director, Center for Irrigation Technology, California State University – Fresno, 5370 N. Chestnut Avenue M/S 18, Fresno, CA 93740-8021, Phone (559) 278-2066, FAX (559) 278-6033	<a href="mailto:david_zoldoske@csufresno.edu">david_zoldoske@csufresno.edu</a> <a href="http://www.waterright.org">http://www.waterright.org</a>
PA *		PM	grass (?)	Art DeGaetano	Northeast Regional Climate Center, Cornell University	<a href="mailto:atd2@cornell.edu">atd2@cornell.edu</a> <a href="http://www.nrcc.cornell.edu/">http://www.nrcc.cornell.edu/</a> <a href="http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html">http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html</a>
RI	All	Penman & Evap Pan	grass	Art Gold	Dept. of Natural Resources Sciences, University of Rhode Island, Phone (401) 874-2903	<a href="http://nrs.uri.edu/">http://nrs.uri.edu/</a> <a href="http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html">http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html</a>
RI *		PM	grass (?)	Art DeGaetano	Northeast Regional Climate Center, Cornell University	<a href="mailto:atd2@cornell.edu">atd2@cornell.edu</a> <a href="http://www.nrcc.cornell.edu/">http://www.nrcc.cornell.edu/</a> <a href="http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html">http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html</a>
SC				Dr. Carl Camp Dr. John Sadler	Agricultural Engineers. USDA-ARS Coastal Plains Soil, Water, and Plant Research Center, 2611 West Lucas St., Florence, SC 29501-1242, Phone (843) 669-5201 (Carl x 107), FAX (843) 669-6970	<a href="mailto:camp@florence.ars.usda.gov">camp@florence.ars.usda.gov</a> <a href="mailto:sadler@florence.ars.usda.gov">sadler@florence.ars.usda.gov</a> <a href="http://www.ars.usda.gov/Main/site_main.htm?modecode=66-57-00-00">http://www.ars.usda.gov/Main/site_main.htm?modecode=66-57-00-00</a>
SC				Dr. Dale E. Linvill	Professor of Ag. Meterology, Dept. of Ag. and Bio. Engr, 230 McAdams Hall, Clemson University, Clemson, SC 29633, Phone (864) 656-4070	<a href="mailto:dinvll@clemson.edu">dinvll@clemson.edu</a> <a href="http://www.clemson.edu/cafls/departments/aqbi_oeng/">http://www.clemson.edu/cafls/departments/aqbi_oeng/</a>
SD		Mod. Pen.	alfalfa	Dr. Ken Hubbard, Director	High Plains Climate Center Automated Weather Data Network (AWDN) - 236 Chase Hall, Univ. of Neb., Lincoln, NE 68583 Tel. (402) 472-6706, Fax. (402) 472-6614, Info. (402) 472-6709	<a href="mailto:khubbard@hpccsun.unl.edu">khubbard@hpccsun.unl.edu</a> <a href="http://www.hprcc.unl.edu/awdn/">http://www.hprcc.unl.edu/awdn/</a>
SD					South Dakota Auto. Weather Data Network (SD-AWDN)	<a href="http://climate.sdstate.edu/">http://climate.sdstate.edu/</a>
TN		Penman	Grass		Agricultural and Biosystems Engineering The University of Tennessee P.O. Box 1071, Knoxville TN 37901-1071 (423) 974-7266, (423) 974-4514 FAX	
TX	All			MesoNet Bruce Gammon	Department of Meteorology Texas A&M University College Station, Texas 77843-3150 (409) 845-2930	<a href="mailto:bgammon@aerial.tamu.edu">bgammon@aerial.tamu.edu</a> <a href="http://www.met.tamu.edu/texnet/mesonet.html">http://www.met.tamu.edu/texnet/mesonet.html</a>
TX	west			MesoNet Dr. Tim Doggett	Assistant Professor of Geosciences, Texas Tech University, (806) 742-3477	<a href="mailto:Tim.Doggett@ttu.edu">Tim.Doggett@ttu.edu</a> <a href="http://www.depts.ttu.edu/geosc/">http://www.depts.ttu.edu/geosc/</a>
TX	Bushland	PM	Grass	Dr. Terry Howell	Research Leader.USDA-ARS, Conservation & Product Research Laboratory, P.O. Drawer 10, Bushland, TX 79012, phone (806) 356-5746, FAX (806) 356-5750	<a href="mailto:tahowell@ag.gov">tahowell@ag.gov</a> <a href="http://www.cprl.ars.usda.gov">http://www.cprl.ars.usda.gov</a>

## ET Connection

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TX	Northern Plains	PM	Grass	Thomas Marek,	Texas Agricultural Experiment Station Amarillo Research and Extension Center 6500 Amarillo Blvd. West Amarillo, TX 79106 (806) 359-5401, FAX (806) 358-9718	<a href="mailto:t-marek@tamu.edu">t-marek@tamu.edu</a> <a href="http://amarillo2.tamu.edu/nppet/petnet1.htm">http://amarillo2.tamu.edu/nppet/petnet1.htm</a> <a href="http://txhighplainset.tamu.edu/">http://txhighplainset.tamu.edu/</a>
TX	Southern Plains	PM	Grass	Dr. Dana Porter	Texas Agricultural Experiment Station Lubbock Research and Extension Center Route 3, Box 219, Lubbock, TX 79401-9757 (806) 746-4025, FAX (806) 746-6528	<a href="mailto:r-lascano@tamu.edu">r-lascano@tamu.edu</a> <a href="http://txhighplainset.tamu.edu/">http://txhighplainset.tamu.edu/</a>
TX	North, Central, South	PM	grass	Dr. Guy Fipps	Texas A&M University, Biological and Agricultural Engineering Dept., 2117 TAMUI, College Station, TX 77843-2117, Phone(979) 845-7454, FAX (979) 847-8828	<a href="mailto:g-fipps@tamu.edu">g-fipps@tamu.edu</a> <a href="http://texaset.tamu.edu">http://texaset.tamu.edu</a>
TX	all		grass	Dr. J. Borrelli	Dept. of Civil Engineering, Texas Tech Univ., Lubbock, TX, Phone (806) 742-3481, FAX (806) 742-3488	<a href="mailto:jborelli@coe2.coe.ttu.edu">jborelli@coe2.coe.ttu.edu</a>
UT	all	SCS-BC	alfalfa	Dr. Robert Hill	Utah State University, Biological and Irrigation Engineering, Logan, UT 435-797-2791	<a href="mailto:boh@ext.usu.edu">boh@ext.usu.edu</a> <a href="http://nrwt1.nr.state.ut.us/techinfo/consumpt/default.asp">http://nrwt1.nr.state.ut.us/techinfo/consumpt/default.asp</a>
UT	all	85 Hargr.	grass	Dr. Robert R. Gillies	Director/ State Climatologist, Utah State University, Utah Climate Center, 4825 Old Main Hill, Logan, UT 84322-4825, Tel. (435) 797-2190, FAX, (435) 797-2117	<a href="mailto:Robert.Gillies@usu.edu">Robert.Gillies@usu.edu</a> <a href="http://climate.usu.edu/">http://climate.usu.edu/</a>
VT *		PM	grass (?)	Art DeGaetano	Northeast Regional Climate Center, Cornell University	<a href="mailto:atd2@cornell.edu">atd2@cornell.edu</a> <a href="http://www.nrcc.cornell.edu/">http://www.nrcc.cornell.edu/</a> <a href="http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html">http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html</a>
VA *		PM	grass (?)	Art DeGaetano	Northeast Regional Climate Center, Cornell University	<a href="mailto:atd2@cornell.edu">atd2@cornell.edu</a> <a href="http://www.nrcc.cornell.edu/">http://www.nrcc.cornell.edu/</a> <a href="http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html">http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html</a>
VA		Thornw aite	grass	Blake Ross	Dept. of Biological Systems Engineering, Virginia Tech., Blacksburg, VA 24061-0303	<a href="mailto:bbross@vt.edu">bbross@vt.edu</a> <a href="http://www.nrcc.cornell.edu/">http://www.nrcc.cornell.edu/</a> <a href="http://climate.virginia.edu/va_pet_prec_diff.htm">http://climate.virginia.edu/va_pet_prec_diff.htm</a>
WA	Columbia Basin	82 KP	alfalfa	AGRIMET Mr. Peter Palmer	AgriMet Coordinator, USDI - Bureau of Reclamation, 1150 North Curtis Road, Boise, ID 83706-1234, Phone (208) 378-5283	<a href="mailto:ppalmer@pn.usbr.gov">ppalmer@pn.usbr.gov</a> <a href="http://www.usbr.gov/pn/agrimet/">http://www.usbr.gov/pn/agrimet/</a>
WA *	major ag irrigated	82 KP FAO24-Penman	alfalfa grass	PAWS	AG Meteorologist/PAWS System Coordinator WSU PAWS, 24106 N. Bunn Rd., Prosser, WA 99350, VOICE: (509)-786-9219 FAX: (509)-786-9370	<a href="mailto:wsupaws@president.prosser.wsu.edu">wsupaws@president.prosser.wsu.edu</a> <a href="http://www.tfrec.wsu.edu/">http://www.tfrec.wsu.edu/</a>
WA	Columbia Basin	82 KP	alfalfa	WaterRight Dr. David F. Zoldoske	Director, Center for Irrigation Technology, California State University – Fresno, 5370 N. Chestnut Avenue M/S 18, Fresno, CA 93740-8021, Phone (559) 278-2066, FAX (559) 278-6033	<a href="mailto:david_zoldoske@csufresno.edu">david_zoldoske@csufresno.edu</a> <a href="http://www.wateright.org">http://www.wateright.org</a>
WI				Bill Bland	WI-MN Cooperative Extension Agricultural Weather Page	<a href="mailto:wbland@facstaff.wisc.edu">wbland@facstaff.wisc.edu</a> <a href="http://www.soils.wisc.edu/wimnext/et/wimnet.html">http://www.soils.wisc.edu/wimnext/et/wimnet.html</a>
WV *		PM	grass (?)	Art DeGaetano	Northeast Regional Climate Center, Cornell University	<a href="mailto:atd2@cornell.edu">atd2@cornell.edu</a> <a href="http://www.nrcc.cornell.edu/">http://www.nrcc.cornell.edu/</a> <a href="http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html">http://www.nrcc.cornell.edu/grass/moisture/mp_evapotrans_fcst.html</a>
WY	Afton	82 KP	alfalfa	AGRIMET Mr. Peter Palmer	AgriMet Coordinator, USDI - Bureau of Reclamation, 1150 North Curtis Road, Boise, ID 83706-1234, Phone (208) 378-5283	<a href="mailto:ppalmer@pn.usbr.gov">ppalmer@pn.usbr.gov</a> <a href="http://www.usbr.gov/pn/agrimet/">http://www.usbr.gov/pn/agrimet/</a>
WY	All	Penman (?)	grass	Dr. Larry Pochop	Professor of Civil Engineering Room 2098, Engineering Building, University of Wyoming, College of Engineering, Box 3295, Laramie, WY 82071-3295 Office Phone : (307) 766-3326, Fax Number: (307) 766-4444	<a href="mailto:pochop@uwyo.edu">pochop@uwyo.edu</a> <a href="http://www.eng.uwyo.edu/">http://www.eng.uwyo.edu/</a>

# ET Connection

State	Application Area	ET Method	Ref Crop	Contact	Contact Information	<a href="#">e-mail address</a> <a href="#">Internet Site</a>
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**Definition of Equation Abbreviations in Table 1:**

82 KP 1982 Kimberly Penman (Wright, 1982)

Penman Penman, 1948, 1963 often referred to as the original Penman.

Mod. Pen. Modified Penman. This is a general term indicating that the original Penman (1948, 1963) equation is applied using some sort of modification, typically to the empirical wind function. Variations in calculating net radiation and vapor pressure deficit are often employed.

PM Penman-Monteith. The original expression is in Monteith (1965) with reexpression in ASCE Manual 70, FAO-56 and Allen et al., (1994a,b)

CIMIS California Irrigation Management Information Service. CIMIS uses an hourly Penman equation with different wind function coefficients for daytime and for nighttime periods and a specific formulation for net radiation (see information for CA in Table 1).

SCS-BC SCS Blaney-Criddle (SCS TR-21, 1970)

FAO-BC FAO Blaney-Criddle (FAO-24, Doorenbos and Pruitt, 1977)

85 Hargr. 1985 Hargreaves (Hargreaves et al., 1985)

JH Jensen-Haise (Jensen and Haise, 1963)

Evap Pan Evaporation Pan that could be actual measurement or calculate

Thornwaite Thornwaite, C.W. (1948). "An approach towards a rational classification of climate".