ABBREVIATIONS AND SYMBOLS

% = per cent
λ = average slope length
°C = degree Celsius
μm = micro meter
A, B, C & D = hydrological soil groups
AGNPS = agricultural nonpoint source pollution
AMC = antecedent moisture condition
ANSWERS = areal nonpoint source watershed environment response simulation
ARS = agricultural research service
ASAE = American society of agricultural engineers
ASCE = American society of civil engineers
BMP = best management practice
C = crop management factor
cc = cubic centimetre
cm = centimetre
CN = runoff curve number
CN₂ = curve number for AMC-II
CO₂ = carbon dioxide
COE = coefficient of simulation efficiency
CREAMS = chemical runoff and erosion from agricultural management system
d = time in day
DEM = digital elevation model
DHI = danish hydraulic institute
DOS = disk operating system
DTM = digital terrain model
Dv = per cent deviation
E = east
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
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<tbody>
<tr>
<td>EASI</td>
<td>environmental analysis and scientific interface</td>
</tr>
<tr>
<td>EF</td>
<td>mixing efficiency</td>
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<tr>
<td>Eng.</td>
<td>engineering</td>
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<td>EPA</td>
<td>environmental protection agency</td>
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<tr>
<td>EPIC</td>
<td>erosion productivity impact calculator</td>
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<tr>
<td>ET</td>
<td>evapotranspiration</td>
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<td>Evap.</td>
<td>evaporation</td>
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<td>Eqn.</td>
<td>equation</td>
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<td>FCC</td>
<td>false colour composite</td>
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<td>FFC</td>
<td>fraction of field capacity</td>
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<td>Fig.</td>
<td>figure</td>
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<td>FYM</td>
<td>farm yard manure</td>
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<td>g</td>
<td>gram</td>
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<td>GCP</td>
<td>ground control point</td>
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<tr>
<td>GIS</td>
<td>geographic information system</td>
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<tr>
<td>GLEAMS</td>
<td>ground water loading effects of agricultural management system</td>
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<tr>
<td>H</td>
<td>contour length</td>
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<td>HC</td>
<td>hydraulic conductivity</td>
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<td>hr</td>
<td>hour</td>
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<tr>
<td>ha</td>
<td>hectare</td>
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<td>HI</td>
<td>harvest index at harvest</td>
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<td>HYMO</td>
<td>hydrological modeling</td>
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<td>l</td>
<td>litre</td>
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<td>ICAR</td>
<td>Indian council of agricultural research</td>
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<td>IIT</td>
<td>Indian institute of technology</td>
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<tr>
<td>IRS</td>
<td>Indian remote sensing</td>
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<tr>
<td>J</td>
<td>joule</td>
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<tr>
<td>K</td>
<td>soil erodibility factor</td>
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<tr>
<td>Kcl</td>
<td>potassium chloride</td>
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</table>
kg = kilogram
km = kilometre
Laly = langlays
LANDSAT = land resource satellite
LB = length around the base of contours
LC = contour length
LISS = linear imaging and self scanning
LS = length slope factor
LS = slope length and steepness factor
m = metre
M. B. = mould board plough
mg = milligram
Mg = million gram
SHE = system hydrologique europeen
MJ = million joule
MLC = maximum likelihood classifier
MLR = maximum likelihood report
mm = millimetre
MS = microsoft office
MSL = mean sea level
MSS = multispectral scanner
MUSLE = modified universal soil loss equation
n = Manning's roughness coefficient
N = north
N: P = nitrogen and phosphorous ratio
NO₃-N = Nitrate-nitrogen
NPS = nonpoint source
NRSA = National remote sensing agency
P = phosphorous
P/R = percolation/runoff
PACE = picture analysis correction and enhancement
PC = personal computer
PE = erosion control practice factor
Perc. = percolation
ppm = parts per million
Q = surface runoff volume
QR = return flow
R = daily rainfall
r² = coefficient of determination
res = reservoir
revap = water flow from shallow aquifer back to soil profile
RH = long-term average relative humidity
ROTO = routing output to outlet
RSOP = runoff sediment observation post
RST = remote sensing technology
RUSLE = rational universal soil loss equation
S = land surface slope
s = time in seconds
SAR = synthetic aperture radar
SCS = soil conservation service
SD/sd = standard deviation
Sec = seconds
Sl. No. = serial number
SPOT MS = system pour l'observation de la terre multispectral
SWAT = soil and water assessment tool
SWRRB = simulator for water resources in rural basins
t = time
TIFF = file format

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TM = thematic mapper
TR = technical release
t-test = student's t-test of significance
UK = United Kingdom
USA = United States of America
USDA = United States department of agriculture
USDIH = United States department of hydrology
USLE = universal soil loss equation
UTIL = universal test integration language
VirGIS = Virginia geographic information system
WS = sub-watershed
WSYF = crop parameter expressing drought sensitivity
y = sediment yield
yr = year