BERNALILLO COUNTY

NHEL
(Non Highly Erodible Land)

M2
Manzano

PHEL
(Potentially Highly Erodible Land)

Pr
Pino - slopes >8% - HEL

HEL
(Highly Erodible Land)

ALL OTHER MAP UNITS
Sandoval County Area (656)

NHEL
(Non Highly Erodible Land)

Mapping Unit

18  Sparham
23  Hickman
24  Orlie-Sparham
26  Orlie
102 Sparham
104 Cochiti-Montecito
185 Frijoles
201 Rock outcrop-Sedgran
206 Pinitos
208 Sedillo
301 Vastine-Jarola
302 Tranquilar-Jarmillo
308 Cajete
317 Elpedro
319 Bamac-Rock outcrop
320 Sparham
346 Espiritu-Bamac
348 Espiritu-Rock outcrop
405 Charo-Charo
414 Wauquie
601 Laventana
SANDOVAL COUNTY AREA (656)

PHEL
(Potentially Highly Erodible Land)

Mapping Unit

4  Montecito - HEL
    Montecito Byx-L - NHEL

71  Palon - HEL >20% slopes

74  Origo - HEL >30% slopes
    Pavo - HEL >15% slopes

77  Pavo - NHEL
    Origo - HEL >20% slopes

215  Ess - HEL >22% slopes
     ROC

283  Mirand - HEL >12% slopes
     Alanos - HEL >18% slopes

304  Cosey - HEL >10% slopes
     Jarmillo - HEL >10% slopes

311  Cosey - HEL >10% slopes
     Tranquilar - NHEL
     Calaveras - HEL >12% slopes

345  Espiritu - HEL >40% slopes
     Bamac - HEL >40% slopes

353  Cochiti - NHEL
     Espiritu - HEL >40% slopes

358  Deama - HEL
     Elpedro - NHEL
     ROC

398  Espiritu - HEL >40% slopes
     Cucho - HEL >40% slopes

399  Cucho - HEL >25% slopes
     Teco - NHEL

406  Microy - HEL >10% slopes

412  Santa Fe - HEL
     Wauquie - NHEL
419 Santa Fe - HEL >40% slopes
   Wauquie - NHEL
   ROC

422 Vessilla - HEL
   Menefee - HEL
   Orlie - NHEL

503 Cajete - NHEL
   Cypher - HEL

603 Laventana - HEL
   Mirand - NHEL

604 Cypher - HEL
   Mirand - HEL >25% slopes

608 Osha - HEL
   Osha - HEL >25% slopes

HEL (Highly Erodible Land)

   ALL OTHER MAP UNITS
CATRON COUNTY

NHEL
(Non Highly Erodible Land)

MU

550 Bario

PHEL
(Potentially Highly Erodible Land)

MU

409 Ceniza - NHEL
    Gatlin - HEL
471 Faraway-Motoqua-ROC - slopes >18% HEL
555 Motoqua-ROC - slopes >18% HEL
710 Alegros - HEL
    Alegros Variant - NHEL

HEL
(Highly Erodible Land)

ALL OTHER MAP UNITS
CHAVES COUNTY, NORTH

HEL
(Highly Erodible Land)

ALL MAP UNITS
CHAVES COUNTY, SOUTH

HEL
(Highly Erodible Land)

ALL MAP UNITS
CIBOLA COUNTY (682)

NHEL
(Non Highly Erodible Land)

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HEL
(Highly Erodible Land)

ALL OTHER MAP UNITS
COLFAUX COUNTY (007)

NHFL
(Non Highly Erodible Land)

MU

BhD  Berthoud
BR   Brycan
CB   Capulin-Torreon
CP   Carnero-Partri-Dioxice
CrB  Colmor
CrC  Colmor
CsB  Colmor
CsC  Colmor
CT   Colmor
FC   Frolic
HrD  Hillery
Lc   LaBrier
Lr   LaBrier
RG   Ring Brycan
SaC  Saladon
SoA  Swastika
SpD  Swastika
SsB  Swastika
St   Swastika
Sx   Swastika - LaBrier
To   Torreon-Deacon

PHFL
(Potentially Highly Erodible Land)

MU

BE   Barela-Yankee NHFL in 30C area
     Barela-Yankee HEL in 80C area
DR   Deacon-LaBrier-Manzano NHFL in 30C area
     Deacon-LaBrier-Manzano HEL in 80C area
DsE  Deacon - NHFL
     Oro Grande - HEL
     Laporte - HEL
Lb   LaBrier NHFL in 80C area
     LaBrier HEL in 120C area
Mb   Manzano NHFL in 30C area
     Manzano HEL in 80C area
Ms   Moreno - NHFL
     Cypher - HEL
Mt   Morval - NHFL
     Moreno - slopes >8% HEL
Mu   Mughouse - slopes >8% HEL in C 30 area
     Swastika - NHFL
Mu   Mughouse in 80 C factor area - HEL
WEG  Wellsville slopes >12% HEL
HEL
(Highly Erodible Land)

ALL OTHER MAP UNITS
CURRY COUNTY (009)

HEL
(Highly Erodible Land)

ALL MAP UNITS
DeBACA COUNTY (011)

HEL
(Highly Erodible Land)

ALL MAP UNITS
DONA ANA COUNTY (690)

HEL
(Highly Erodible Land)

ALL MAP UNITS
EDDY COUNTY (614)

HEL
(Highly Erodible Land)

ALL MAP UNITS
GRANT COUNTY (662)

NHEL
(Non Highly Erodible Land)

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PHEL
(Potentially Highly Erodible Land)

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HEL
(Highly Erodible Land)

ALL OTHER MAP UNITS
GUADALUPE COUNTY (019)*

HEL
(Highly Erodible Land)

ALL MAP UNITS

*list not complete
HARDING COUNTY (021)

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(Potentially Highly Erodible Land)

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HEL
(Highly Erodible Land)

ALL OTHER MAP UNITS
HIDALGO COUNTY (023)

NHEL
(Non Highly Erodible Land)

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PHEL
(Potentially Highly Erodible Land)

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HEL
(Highly Erodible Land)

ALL OTHER MAP UNITS
LEA COUNTY (025)

HEL
(Highly Erodible Land)

ALL MAP UNITS
LINCOLN COUNTY AREA (632)

**NHEL**
(Non Highly Erodible Land)

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**PHEL**
(Potentially Highly Erodible Land)

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<td>Purcella – NHEL</td>
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**HEL**
(Highly Erodible Land)

ALL OTHER MAP UNITS
LUNA COUNTY (029)

HEL
(Highly Erodible Land)

ALL MAP UNITS
MESCALERO-APACHE AREA (636)

NHEL
(Non Highly Erodible Land)

MU

RU  Ruidoso
Ku  Kuma

PHEL
(Potentially Highly Erodible Land)

MU

AR  Arosa - slopes >10% - HEL
BR  Brycan - slopes >10% - HEL
BS  Brycan - slopes >10% - HEL
CB  Caballo - slopes >10% - HEL
GC  Gaines - slopes >7% - HEL
HT  Hesperus - slopes >12% - HEL
JR  Tularosa - slopes >10% - HEL
    Jarita - HEL
ME  Remunda - slopes >10% - HEL
    Mescalero - slopes >8% - HEL
PA  Pena - slopes >18% - HEL
    Irock - HEL
RC  Remunda - slopes >10% - HEL
RK  Rock outcrop
    Supervisor - slopes >18% - HEL
SU  Supervisor - slopes >18% - HEL
TC  Telefono - slopes >5% - HEL
TU  Tularosa - slopes >10% HEL

HEL
(Highly Erodible Land)

ALL OTHER MAP UNITS
MORA COUNTY (638)

NH£L
(Non Highly Erodible Land)

MU

BD  Breece Variant
BE  Brycan
BF  Brycan
CB  Ceboya
DA  Dalcan - Raton
HB  Hesperus
HC  Hesperus
HO  Holman - Holman
KA  Kinesava
KB  Kinesava
LA  LaBrier
MH  Moreno
PA  Partri
PB  Partri
RF  Remunda
RH  Remunda
SW  Swastika
SX  Swastika
YS  Yankee - Saladon

PH£L
(Potentially Highly Erodible Land)

MU

BA  Barela - >6% slopes - HEL
    Yankee - NH£L
BH  Burnac - >9% slopes - HEL
    Hillery - NH£L
DF  Dargol - >8% - HEL
    Fuera - >15% - HEL
DR  Dargol - >8% - HEL
    Rocio - >15% - HEL
    Vamer - HEL
FH  Firo - HEL
    Hesperus - NH£L
MA  Maes - >14% slopes - HEL
    Etoe - NH£L
MO  Moreno - >10% slopes - HEL
MR  Moreno - >10% slopes - HEL
    Brycan - NH£L
PC  Partri - NH£L
    Carnero - HEL
    Bernal - HEL
RB  Raton - HEL
    Barela - >6% HEL
HEL
(Highly Erodible Land)

ALL OTHER MAP UNITS
OTERO COUNTY (646)

NHEL
(Non Highly Erodible Land)

Mu

MxC     Montecito
        Aztec

HEL
(Highly Erodible Land)

ALL OTHER MAP UNITS

PHHEL
(Potentially Highly Erodible Land)

Mu

AoB     Aztec - NHEL
        Alamogordo - HEL
Subject: HEL List - Rio Arriba Soil Survey

To: Geneva Dawkins, AC, Rio Rancho Area Office
    Bill Peterson, DC, Aztec FO
    Levi Sandoval, DC, Chama FO
    Louis Figueroa, DC, Cuba FO
    Paul Montoya, DC, Espanola FO
    Ed Korzdorfer, DC, Santa Fe FO

Please find attached an updated Highly Erodible Soils list for Rio Arriba County Area Soil Survey. Remove and discard the previous list in your FOTG Section II and replace with this updated version.

The changes on this list results in the following soil map units being NON-HEL:

   MU Component

   31  Gobernador
   40  Pinitos
   60  Sparham
   69  Lindrith
   70  Sparham
   103  Orlie
   107  Berryman
   107  Ruson
   113  Teromote
   113  Ruson
   140  Wauquie
   245  Manzano

If you have any questions, please call for clarification.

Ken Scheffe
Asst. St. Soil Scientist
# RIO ARRIBA SOIL SURVEY HIGHLY ERODIBLE SOILS LIST

**April 1992**

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* HEL NOT DETERMINED ON ROCK OUTCROP PORTION OF UNIT
## RIO ARRIBA SOIL SURVEY HIGHLY ERODIBLE SOILS LIST

### April 1992

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* HEL NOT DETERMINED ON ROCK OUTCROP PORTION OF UNIT
ROOSEVELT COUNTY (041)

HEL
(Highly Erodible Land)

ALL MAP UNITS
SAN JUAN, EASTERN PART (618)

NHEL
(Non Highly Erodible Land)

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HEL
(Highly Erodible Land)

ALL OTHER MAP UNITS
SAN MIGUEL COUNTY (630)

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HEL
(Highly Erodible Land)

ALL OTHER MAP UNITS
SANTA FE COUNTY (686)

NHEL
(Non Highly Erodible Land)

MU

AG Alluvial land
AL Alluvial land
LU Lunch Variant
PC Pena
RD Rednun
RE Rednun-Pena

PHEL
(Potentially Highly Erodible Land)

MU

AD Adel - >13% slopes - HEL
GL Guaje - >24% slopes - HEL
LS Los Alamos - HEL
Silver - NHEL
MC McVickers - >17% slopes - HEL
MG Montoso - >17% slopes - HEL
NE Nambe - >30% slopes - HEL
NM Nambe - >30% slopes HEL
PE Penitente - >20% slopes - HEL
RG Rednun - NHEL
Travessilla - HEL

HEL
(Highly Erodible Land)

ALL OTHER MAP UNITS
SIERRA COUNTY (660)

NHEL
(Non Highly Erodible Land)

MU

76    Scholle-Ildefonso
83    Urban land

PHEL
(Potentially Highly Erodible Land)

MU

38    Goldust - slopes >35% - HEL

HEL
(Highly Erodible Land)

ALL OTHER MAP UNITS
PHEL
(Potentially Highly Erodible Land)

MU

657  Akela - NHEL
     Lava Flows - NHEL
     Armendaris - HEL.

HEL
(Highly Erodible Land)

ALL OTHER MAP UNITS
SW QUAY COUNTY (668)

HEL
(Highly Erodible Land)

ALL MAP UNITS
TAOS COUNTY (670)

NHEL
(Non Highly Erodible Land)

MU

CAB  Caruso
CsC  Cryoboralls
Ctc  Cryoboralls-Cryaquolls
CuB  Cumulic Haplaquolls
CyB  Cumulic Haploborolls
DmF  Diamante
FaC  Fernando
FBC  Fernando
FEB  Fernando
FFC  Fernando
FHB  Fernando
HaB  Hernandez
Hkc  Hernandez-Kim
HsC  Hernandez-Silva
JaD  Jarosa-Angostura
LaE  Lama
LoB  Loveland
MeD  Maes-Etoe
MnA  Manzano
MnB  Manzano
MnC  Manzano
MNC  Manzano
MrD  Marosa
MwD  Mirand
MxD  Montecito
NaD  Nambe
PbD  Penitente
PoB  Poganeab
PrD  Presa
SbD  Sedillo
SeD  Sedillo-Silva
ShB  Shawa
SmB  Silva
SmD  Silva
Ssc  Silva-Sedillo
StC  Stunner
Svc  Stunner-Travelers-Luhon
TeB  Tenorio
TeC  Tenorio
### TAOS COUNTY (670)

**p.2**

**PHEL**

*(Potentially Highly Erodible Land)*

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<tr>
<td>JaF</td>
<td>Jarosa - slopes &gt;22% - HEL</td>
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<td>Angostura - slopes &gt;22% - HEL</td>
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<td>MaF</td>
<td>Maes - slopes &gt;22% - HEL</td>
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<tr>
<td>MeF</td>
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<tr>
<td>MrF</td>
<td>Marosa - slopes &gt;25% - HEL</td>
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<td>Mte</td>
<td>Marosa - slopes &gt;25% - HEL</td>
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<tr>
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<td>Nambe - slopes &gt;22% - HEL</td>
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<td>MxE</td>
<td>Montecito - slopes &gt;20% - HEL</td>
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<td>Rock outcrop</td>
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<td>NaF</td>
<td>Nambe - slopes &gt;22% - HEL</td>
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<td>NaF2</td>
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<td>OmD</td>
<td>Orejas - slopes &gt;17% - HEL</td>
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<td>OsG</td>
<td>Orthents - HEL</td>
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<td>Calciorthids - slopes &gt;35% - HEL</td>
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<tr>
<td>PbF</td>
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<td>PgC</td>
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<tr>
<td>Silva</td>
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<td>Cryaquolls - NHEL</td>
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<td>Rbe</td>
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<td>Stunner - NHEL</td>
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<td>Rock outcrop</td>
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<td>Wellsville - slopes &gt;22% - HEL</td>
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<td>Suc</td>
<td>Stunner - HEL</td>
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<td>Luhon - NHEL</td>
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**HEL**

*(Highly Erodible Land)*

**ALL OTHER MAP UNITS**
TORRANCE COUNTY (674)

NHEL
(Non Highly Erodible Land)

\[
\begin{array}{ll}
\text{MU} & \\
Fr & Fuera \\
Ta & Tampico \\
Wb & Washoe \\
Wc & Wilcoxorr \\
Wd & Wilcoxorr
\end{array}
\]

PHEL
(Potentially Highly Erodible Land)

\[
\begin{array}{ll}
\text{MU} & \\
Ct & Crest - slopes >10\% - HEL \\
Fo & Fortwingate - slopes >10\% - HEL \\
Lp & Laporte-ROC - slopes >10\% - HEL \\
Pt & Pinata - slopes >15\% - HEL \\
Pv & Stroupe - slopes >10\% - HEL \\
Pw & Pino - slopes >10\% - HEL \\
Wa & Pino - slopes >8\% - HEL \\
Wc & Washoe - slopes >16\% - HEL \\
\end{array}
\]

HEL
(Highly Erodible Land)

\[
\begin{array}{ll}
\text{ALL OTHER MAP UNITS}
\end{array}
\]
TUCUMCARI AREA (676)

HEL
(Highly Erodible Land)

ALL MAP UNITS
UNION COUNTY (059)

NHEL
(Non Highly Erodible Land)

<table>
<thead>
<tr>
<th>MU</th>
<th>Description</th>
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<tbody>
<tr>
<td>Fr</td>
<td>Fallsam - ROC</td>
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<tr>
<td>Lr</td>
<td>Labrier - ROC</td>
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<td>Tn</td>
<td>Torreon</td>
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PHEL
(Potentially Highly Erodible Land)

<table>
<thead>
<tr>
<th>MU</th>
<th>Description</th>
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<tbody>
<tr>
<td>Km</td>
<td>Kim - HEL</td>
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<tr>
<td></td>
<td>Manzano - NHEL</td>
</tr>
<tr>
<td>Mn</td>
<td>Manzano - HEL in 120C zone</td>
</tr>
<tr>
<td></td>
<td>Manzano - NHEL in 80C zone</td>
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<tr>
<td>Sh</td>
<td>Sherm - HEL in 120C zone</td>
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<tr>
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<td>Sherm - NHEL in 80C zone</td>
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HEL
(Highly Erodible Land)

ALL OTHER MAP UNITS
VALENCIA COUNTY EASTERN PART (612)

HEL
(Highly Erodible Land)

ALL MAP UNITS
WHITE SANDS AREA (688)

HEL  
(Highly Erodible Land)

ALL OTHER MAP UNITS

PHEL  
(Potentially Highly Erodible Land)

 Mu

 MG  Mimbre - NHEL
     Glendale - HEL