

K FACTOR (SOIL ERODIBILITY)

K accounts for the influence of soil properties on soil loss. The K value is a complex property and is thought of as the ease with which soil is detached by splash during rainfall or by surface flow, or both. K includes the effects of texture, mineralogy, organic matter, structure, permeability, and depth to a limiting layer.

K factors are expressed for each soil layer. K_f represents the soil erodibility of the fine fraction less than 2 mm. The RUSLE Soils Data Table contains the updated K_f values for the surface layer. K_f values for lower layers are located in FOCS, Soils, Physical Properties of Soils.

The K factors for Hawai'i are based on the Rainulator studies of Dr. Samir El-Swaify, Professor of Soil Science at the University of Hawai'i at Manoa.

Obtaining K Factor Values

Verify that the surface texture of the soil on site is the same as described in the soil survey.

Call the soil scientist for assistance if necessary.

Use the appropriate RUSLE Soil Data table to obtain the K_f value for the soil map unit.

List of RUSLE Soil Data

K values are from the Hawai'i NRCS State Soil Survey Database, September, 1995:

RUSLE Soil Data, Survey Area Island of Hawaii

RUSLE Soil Data, Survey Area Island of Kauai

RUSLE Soil Data, Survey Area Island of Lanai

RUSLE Soil Data, Survey Area Island of Maui

RUSLE Soil Data, Survey Area Island of Molokai

RUSLE Soil Data, Survey Area Island of Oahu

**RUSLE Soil Data
Island of Hawai'i**

2/5/96

Map Unit Symbol	Map Unit Name	Surface Texture	Hydrologic Group	Kf	T
AFD	Apakuie	VFSL	A	0.17	5
ASD	Apakuie	STV-VFS	A	0.17	3
AaC	Ainakea	SICL	B	0.1	3
AaD	Ainakea	SICL	B	0.1	3
AaE	Ainakea	SICL	B	0.1	3
AkC	Akaka	SICL	A	0.05	4
AkD	Akaka	SICL	A	0.05	4
AIC	Alapai	SICL	A	0.05	5
AID	Alapai	SICL	A	0.05	5
AIE	Alapai	SICL	A	0.05	5
ApD	Alapai	STX-SIC	A	0.05	3
BH	Beaches	COS	A	0.05	5
FL	Fill land	SICL	C	0.1	3
HCD	Hanipoe	STV-L	B	0.17	3
HDD	Hanipoe	SIL	B	0.17	5
HFD	Hanipoe	ST-SIL	C	0.1	2
HHC	Heake	SL	D	0.17	1
HKC	Heake	SL	D	0.17	1
HND	Honaunau	SIL	C	0.05	2
HRD	Honaunau	SICL	C	0.05	2
HTD	Honokaa	SICL	A	0.05	5
HTE	Honokaa	SICL	A	0.05	5
HUD	Honuaulu	STV-SIC	A	0.1	3
HVD	Honuaulu	STX-SIC	A	0.1	3
HaA	Hawi	SIC	B	0.17	5
HaC	Hawi	SIC	B	0.17	5
HeC	Hawi	STX-SIC	B	0.17	5
HIC	Hilea	SICL	D	0.05	1
HoC	Hilo	SICL	A	0.05	5
HoD	Hilo	SICL	A	0.05	5
HoE	Hilo	SICL	A	0.05	5
HsC	Honokaa	SICL	A	0.05	5
HsD	Honokaa	SICL	A	0.05	5
HsE	Honokaa	SICL	A	0.05	5
KBC	Kaalualu	STX-LS	A	0.17	3
KCD	Kahua	SICL	D	0.1	2
KDD	Kainaliu	STV-SIC	A	0.17	3
KEC	Kainaliu	STX-SIC	A	0.17	3
KGC	Kamakoa	VFSL	B	0.17	5
KIC	Kamaoa	L	B	0.17	5
KJC	Kamaoa	L	B	0.17	2
KKC	Kamaoa	STX-L	B	0.17	5
KLC	Kapapala	L	B	0.17	3

**RUSLE Soil Data
Island of Hawai'i**

2/5/96

Map Unit Symbol	Map Unit Name	Surface Texture	Hydrologic Group	Kf	T
KLD	Kapapala	L	B	0.17	3
KMD	Kapapala	STV-L	C	0.17	2
KNC	Kawaihae	STX-VFS	C	0.32	2
KOC	Kawaihae	STX-VFS	C	0.32	2
KPD	Kealakekua	SICL	C	0.05	2
KRD	Kealakekua	STV-SIC	C	0.05	2
KSD	Kealakekua	STX-SIC	C	0.05	2
KTB	Keekee	LS	B	0.1	2
KVC	Kehena	SICL	C	0.1	2
KXC	Kikoni	VFSL	B	0.17	4
KYC	Kikoni	STX-VFS	B	0.17	2
KZD	Kilohana	LFS	A	0.1	4
KaC	Kaiwiki	SICL	A	0.05	5
KaD	Kaiwiki	SICL	A	0.05	5
KaE	Kaiwiki	SICL	A	0.05	5
KfA	Kikoni	VFSL	B	0.17	4
KhA	Kohala	SIC	B	0.17	4
KhC	Kohala	SIC	B	0.17	4
KhD	Kohala	SIC	B	0.17	4
KhE	Kohala	SIC	B	0.17	4
KuC	Kukaiau	SICL	A	0.17	4
KuD	Kukaiau	SICL	A	0.17	4
KuE	Kukaiau	SICL	A	0.17	4
KwD	Kukaiau	SICL	C	0.17	3
LAD	Laumaia	SIL	B	0.17	3
LUC	Laumaia	STX-SIL	B	0.17	3
MHC	Mahukona	SICL	B	0.17	3
MKC	Mahukona	STV-SIC	B	0.17	3
MLD	Maile	SIL	A	0.1	5
MMD	Manahaa	SIL	C	0.1	2
MND	Manahaa	STX-SIL	C	0.1	2
MT	Mixed alluvial land	VAR	B	0.28	3
MaA	Maile	SIL	A	0.1	5
MoC	Moaula	SICL	A	0.1	5
MoD	Moaula	SICL	A	0.1	5
MoE	Moaula	SICL	A	0.1	5
NaC	Naalehu	SICL	B	0.17	4
NaD	Naalehu	SICL	B	0.17	4
NaE	Naalehu	SICL	B	0.17	4
NhD	Naalehu	SICL	C	0.2	2
NIC	Niulii	SICL	C	0.1	2
NID	Niulii	SICL	C	0.1	2
NIE	Niulii	SICL	C	0.1	2
OHC	Ohia	SICL	A	0.05	5
OSD	Ohia	STX-SIC	A	0.05	3
OaC	Olaa	SICL	A	0.05	3

**RUSLE Soil Data
Island of Hawai'i**

2/5/96

Map Unit Symbol	Map Unit Name	Surface Texture	Hydrologic Group	Kf	T
OID	Olaa	STX-SIC	A	0.05	3
OoC	Ookala	SICL	A	0.1	4
OoD	Ookala	SICL	A	0.1	4
OoE	Ookala	SICL	A	0.1	4
PKB	Pakini	VFSL	B	0.55	5
PLC	Palapalai	SIL	B	0.17	5
PMC	Palapalai	SICL	B	0.17	5
PND	Piihonua	SICL	A	0.05	5
POD	Piihonua	STX-SIC	A	0.05	5
PPC	Puulu	SIL	A	0.1	5
PRD	Punohu	SIL	A	0.1	5
PSC	Puukala	STX-SIL	D	0.1	1
PTC	Puukala	STX-SIL	D	0.1	1
PUC	Puu Oo	SIL	A	0.1	5
PVD	Puu Pa	STX-VFS	A	0.2	3
PVF3	Puu Pa	STX-VFS	A	0.2	2
PWD	Puu Pa	SIL	A	0.2	3
PaC	Paauhau	SICL	A	0.17	3
PaD	Paauhau	SICL	A	0.17	3
PaE	Paauhau	SICL	A	0.17	3
PeC	Panaewa	GR-SICL	D	0.05	1
RB	Rough broken land	SICL	C	0.05	3
Tr	Tropaquepts	MK-SIL	D	0.1	5
UMD	Umikoa	SIL	B	0.17	5
USD	Umikoa	STX-SIL	B	0.17	5
WAC	Waiaha	SIL	D	0.2	1
WAD	Waiaha	SIL	D	0.2	1
WHC	Waiaha	STX-SIL	D	0.2	1
WKD	Waiaha	SIL	D	0.2	1
WLC	Waikaloo	VFSL	B	0.17	5
WMC	Waimea	VFSL	B	0.17	3
WSD	Waimea	STX-VFS	B	0.17	3
rAK	Akaka	SICL	A	0.05	4
rAM	Amalu	MK-SIL	D	0.05	2
rAR	Amalu	MK-SIL	D	0.05	2
rAR	Rough broken land	SICL	C	0.05	3
rCL	Cinder land	CIND	A	0.02	5
rHID	Huikau	LS	A	0.1	2
rHID2	Huikau	LS	A	0.1	2
rHLD	Huikau	STX-LS	A	0.1	2
rHP	Hydrandept	SICL	A	0.05	5
rKAD	Kahaluu	MUCK	D	0.02	1
rKED	Kaimu	STX-PEA	A	0.02	1
rKFD	Keaukaha	MUCK	D	0.02	1
rKGD	Keei	MUCK	D	0.02	1

**RUSLE Soil Data
Island of Hawai'i**

2/5/96

Map Unit Symbol	Map Unit Name	Surface Texture	Hydrologic Group	Kf	T
rKHD	Kekake	MUCK	D	0.02	1
rKUC	Kilauea	GRX-S	B	0.17	3
rKXD	Kiloa	STX-MUCK	A	0.05	2
rKYD	Kona	MUCK	D	0.02	1
rLLD	Lalaau	STX-MUCK	A	0.02	1
rLV	Lava flows, aa	FRAG	A	0.02	1
rLW	Lava flows, pahoehoe	UWB	D	0.02	1
rMAD	Malama	STX-MUCK	A	0.02	1
rMUB	Manu	SIL	C	0.17	2
rMWD	Mawae	STX-MUCK	A	0.02	1
rOPE	Opihikao	MUCK	D	0.02	1
rPAE	Papai	STX-MUCK	A	0.05	1
rPHB	Puhimau	SIL	D	0.17	1
rPXE	Puna	STX-MUCK	A	0.02	1
rPYD	Punaluu	PEAT	D	0.02	1
rRO	Rock land	FSL	D	0.2	1
rVS	Very stony land	STX-FSL	C	0.2	2

**RUSLE Soil Data
Island of Kauai**

2/5/96

Map Unit Symbol	Soil Name	Surface Texture	Hydrologic Group	Kf	T
BL	Badland	WB	D	0.49	3
BM	Badland	WB	D	0.49	3
BM	Mahana	SIL	B	0.43	5
BS	Beaches	COS	A	0.05	5
DL	Dune land	S	A	0.1	5
Fd	Fill land	SICL	C	0.1	2
HMMF	Hihimanu	SICL	B	0.17	5
HNUD	Hulua	GR-SICL	D	0.05	2
HNUF	Hulua	GR-SICL	D	0.05	2
HfB	Halii	GR-SIC	B	0.1	5
HfC	Halii	GR-SIC	B	0.1	5
HfD2	Halii	GR-SIC	B	0.1	5
HfE2	Halii	GR-SIC	B	0.1	5
HmA	Hanalei	SICL	C	0.17	5
HnA	Hanalei	SIC	C	0.17	5
HpA	Hanalei	PT-SICL	C	0.1	5
HrB	Hanalei	SIC	C	0.17	5
HsB	Hanamaulu	SIC	B	0.1	5
HsC	Hanamaulu	SIC	B	0.1	5
HsD	Hanamaulu	SIC	B	0.1	5
HsE	Hanamaulu	SIC	B	0.1	5
HtE	Hanamaulu	ST-SIC	B	0.1	5
HuE	Hanamaulu	BY-SIC	B	0.1	5
IoB	Ioleau	SICL	C	0.1	5
IoC	Ioleau	SICL	C	0.1	5
IoD2	Ioleau	SICL	C	0.1	5
IoE2	Ioleau	SICL	C	0.1	5
JfB	Jaucas	LFS	A	0.1	5
JkB	Jaucas variant	LFS	A	0.1	5
KEHF	Kalapa	SIC	B	0.1	5
KOYE	Kekaha	STX-SIC	B	0.17	5
KSKE	Kokee	SICL	B	0.1	3
KSKF	Kokee	SICL	B	0.1	3
KUL	Kolokolo	STX-CL	B	0.17	5
KVSB	Koolau	SIC	C	0.05	3
KVSE	Koolau	SIC	C	0.05	3
KZC	Kunuweia	GRV-CL	B	0.1	5
KavB	Kaena variant	C	D	0.28	5
KavC	Kaena variant	C	D	0.28	5
KdD	Kalapa	SIC	B	0.1	5
KdE	Kalapa	SIC	B	0.1	5
KdF	Kalapa	SIC	B	0.1	5
Ke	Kalihi	C	D	0.28	5
Kf	Kaloko	CL	D	0.17	5
Kfa	Kaloko	C	D	0.17	5

**RUSLE Soil Data
Island of Kauai**

2/5/96

Map Unit Symbol	Soil Name	Surface Texture	Hydrologic Group	Kf	T
KkB	Kapaa	SIC	B	0.1	5
KkC	Kapaa	SIC	B	0.1	5
KkD	Kapaa	SIC	B	0.1	5
KkE	Kapaa	SIC	B	0.1	5
KoA	Kekaha	SIC	B	0.17	5
KoB	Kekaha	SIC	B	0.17	5
KobA	Kekaha	C	B	0.17	5
KvB	Koloa	ST-SIC	C	0.17	2
KvC	Koloa	ST-SIC	C	0.17	2
KvD	Koloa	ST-SIC	C	0.17	2
Kw	Kolokolo	CL	B	0.17	5
LPE	Lualualei	STX-C	D	0.28	5
LcB	Lawai	SIC	B	0.1	5
LcC	Lawai	SIC	B	0.1	5
LcD	Lawai	SIC	B	0.1	5
LhB	Lihue	SIC	B	0.15	5
LhC	Lihue	SIC	B	0.15	5
LhD	Lihue	SIC	B	0.15	5
LhE2	Lihue	SIC	B	0.15	5
LIB	Lihue	GR-SIC	B	0.15	5
LIC	Lihue	GR-SIC	B	0.15	5
LuA	Lualualei	C	D	0.28	5
LuB	Lualualei	C	D	0.28	5
MZ	Marsh	MPT	D	0.02	3
MaC	Mahana	SIL	B	0.43	5
MaD	Mahana	SIL	B	0.43	5
MaD3	Mahana	SIL	B	0.43	5
MaE	Mahana	SIL	B	0.43	5
MaE3	Mahana	SIL	B	0.43	5
MeB	Makapili	SIC	B	0.1	5
MeC	Makapili	SIC	B	0.1	5
MeD	Makapili	SIC	B	0.1	5
MeE	Makapili	SIC	B	0.1	5
MgB	Makaweli	SICL	B	0.17	5
MgC	Makaweli	SICL	B	0.17	5
MgD	Makaweli	SICL	B	0.17	5
MgE2	Makaweli	SICL	B	0.17	5
MhB	Makaweli	ST-SICL	B	0.17	5
MhC	Makaweli	ST-SICL	B	0.17	5
MhD	Makaweli	ST-SICL	B	0.17	5
MhE	Makaweli	ST-SICL	B	0.17	5
MnC	Mamala	ST-SICL	D	0.17	1
Mr	Mokuleia	FSL	B	0.1	2
Mta	Mokuleia variant	CL	B	0.17	2
NcC	Niu	SICL	B	0.17	5
NcD	Niu	SICL	B	0.17	5
NcD2	Niu	SICL	B	0.17	5

**RUSLE Soil Data
Island of Kauai**

2/5/96

Map Unit Symbol	Soil Name	Surface Texture	Hydrologic Group	Kf	T
NcE2	Niu	SICL	B	0.17	5
Nh	Nohili	C	D	0.28	3
NnC	Nonopahu	C	D	0.28	5
NoC	Nonopahu	ST-C	D	0.28	5
OME	Oli	SIL	B	0.17	2
OMF	Oli	SIL	B	0.17	2
OID	Oli	L	B	0.17	2
PGE	Paaiki	L	B	0.17	3
PGF	Paaiki	L	B	0.17	3
PHXC	Pakala	STX-SCL	B	0.17	5
PdA	Pakala	CL	B	0.17	5
PdC	Pakala	CL	B	0.17	5
PkB	Pohakupu	SICL	B	0.17	5
PIB	Pooku	SICL	B	0.1	5
PID	Pooku	SICL	B	0.1	5
PmB	Pooku	SIC	B	0.1	5
PmC	Pooku	SIC	B	0.1	5
PmD	Pooku	SIC	B	0.1	5
PmE	Pooku	SIC	B	0.1	5
PnA	Puhi	SICL	B	0.1	5
PnB	Puhi	SICL	B	0.1	5
PnC	Puhi	SICL	B	0.1	5
PnD	Puhi	SICL	B	0.1	5
PnE	Puhi	SICL	B	0.1	5
PwC	Puu Opae	SICL	B	0.1	5
PwD	Puu Opae	SICL	B	0.1	5
PwE	Puu Opae	SICL	B	0.1	5
WJF	Waiawa	C	D	0.28	1
Ws	Waikomo	ST-SIC	D	0.17	1
Wt	Waikomo	ST-SIC	D	0.17	1
Wu	Waikomo	ST-SIC	D	0.17	1
rAAE	Alakai	MPT	C	0.05	2
rRH	Riverwash	GRX-S	D	0.1	5
rRK	Rock land	SIC	D	0.1	1
rRO	Rock outcrop	UWB	D	0.02	1
rRR	Rough broken land	SICL	C	0.1	3
rRT	Rough mountainous land	SICL	D	0.2	3
rRU	Rubble land	FRAG	A	0.02	1
rWAF	Waialeale	MK-SICL	D	0.05	3

RUSLE Soil Data
Island of Lanai

2/5/96

Map Unit Symbol	Soil Name	Surface Texture	Hydrologic Group	Kf	T
BS	Beaches	COS	A	0.05	5
BW	Blown-out land	SIC	B	0.17	2
JaC	Jaucas	S	A	0.1	5
KASD	Kahanui	SIC	D	0.1	3
KRL	Koele	SICL	B	0.17	5
KRL	Badland	WB	D	0.49	3
KcB	Kalae	SIC	B	0.1	5
KcC	Kalae	SIC	B	0.1	5
KcD3	Kalae	SIC	B	0.1	5
KhB	Kanepuu	SIC	B	0.17	5
KhB2	Kanepuu	SIC	B	0.17	5
KhC	Kanepuu	SIC	B	0.17	5
KhC2	Kanepuu	SIC	B	0.17	5
KrB	Koele	SICL	B	0.17	5
KrC	Koele	SICL	B	0.17	5
KrD	Koele	SICL	B	0.17	5
LaA	Lahaina	SIC	B	0.17	5
LaB	Lahaina	SIC	B	0.17	5
LaB3	Lahaina	SIC	B	0.17	5
LaC	Lahaina	SIC	B	0.17	5
LaC3	Lahaina	SIC	B	0.17	5
LaD3	Lahaina	SIC	B	0.17	5
LaE3	Lahaina	SIC	B	0.17	5
LuA	Lualualei	C	D	0.28	5
MmA	Mala	SIC	B	0.17	4
MmB	Mala	SIC	B	0.17	4
MuA	Molokai	SICL	B	0.2	5
MuB	Molokai	SICL	B	0.2	5
MuC	Molokai	SICL	B	0.2	5
MuC3	Molokai	SICL	B	0.2	5
MvD3	Molokai variant	SICL	B	0.2	5
NAC	Naiwa	SICL	B	0.37	4
OOE	Olokui	SICL	D	0.05	2
PID	Pamoa	SIC	B	0.28	5
PID2	Pamoa	SIC	B	0.28	5
PoB	Pulehu	SL	B	0.17	5
PoaB	Pulehu	ST-SL	B	0.17	5
PsA	Pulehu	CL	B	0.17	5
UwB	Uwala	SICL	B	0.17	5
UwC	Uwala	SICL	B	0.17	5
UwC3	Uwala	SICL	B	0.17	5
WoA	Waihuna	C	D	0.28	5
WoB	Waihuna	C	D	0.28	5
WoC	Waihuna	C	D	0.28	5
WoD	Waihuna	C	D	0.28	5
WohB	Waihuna	GR-C	D	0.28	5
WrA	Waikapu	SICL	B	0.17	5

**RUSLE Soil Data
Island of Lanai**

2/5/96

Map Unit Symbol	Soil Name	Surface Texture	Hydrologic Group	Kf	T
WrC3	Waikapu	SICL	B	0.17	5
rRK	Rock land	SIC	D	0.1	1
rRO	Rock outcrop	UWB	D	0.02	1
rRR	Rough broken land	SIC	C	0.1	3
rRT	Rough mountainous land	SICL	D	0.2	3
rSL	Sandy alluvial land	LS	A	0.17	5
rSM	Stony alluvial land	STX-SIC	B	0.28	5
rSN	Stony blown-out land	STV-SIC	B	0.17	2
rVS	Very stony land	STX-SIC	C	0.28	2
rVT2	"Very stony land, er"	STX-SIC	C	0.28	2

RUSLE Soil Data
Island of Maui

2/5/96

Map Unit Symbol	Soil Name	Surface Texture	Hydrologic Group	Kf	T
AaB	Alae	SL	A	0.1	2
AcA	Alae	CB-SL	A	0.1	2
AcB	Alae	CB-SL	A	0.1	2
AeB	Alaeloa	SIC	B	0.1	5
AeC	Alaeloa	SIC	B	0.1	5
AeE	Alaeloa	SIC	B	0.1	5
BS	Beaches	COS	A	0.05	5
DL	Dune land	S	A	0.1	5
EaA	Ewa	SICL	B	0.17	5
EcA	Ewa	CB-SICL	B	0.17	5
EcB	Ewa	CB-SICL	B	0.17	5
EsA	Ewa	SIC	B	0.17	5
EsB	Ewa	SIC	B	0.17	5
EtB	Ewa	CB-SIC	B	0.17	5
Fd	Fill land	SICL	C	0.1	2
HID	Halawa	SIC	B	0.1	4
HKLD	Hana	STV-SIC	A	0.05	3
HKMD	Hana	STX-SIC	A	0.05	3
HKNC	Hana variant	SICL	A	0.05	3
HKOC	Hana variant	STX-SIC	A	0.05	3
HaB	Haiku	SIC	B	0.1	5
HaC	Haiku	SIC	B	0.1	5
HbB	Haiku	C	B	0.1	5
HbC	Haiku	C	B	0.1	5
HgB	Haliimaile	SICL	B	0.17	5
HgC	Haliimaile	SICL	B	0.17	5
HhB	Haliimaile	SIC	B	0.17	5
HhC	Haliimaile	SIC	B	0.17	5
HkC2	Haliimaile	GR-SIC	B	0.17	5
HIB	Hamakuapoko	SIC	B	0.1	5
HIC	Hamakuapoko	SIC	B	0.1	5
HIC2	Hamakuapoko	SIC	B	0.1	5
HwC	Honolua	SIC	B	0.1	5
HwD	Honolua	SIC	B	0.1	5
ISD	Io	SIL	B	0.2	3
IaA	Iao	SIC	B	0.17	5
IaB	Iao	SIC	B	0.17	5
IbB	Iao	CB-SIC	B	0.17	5
IbC	Iao	CB-SIC	B	0.17	5
IcB	Iao	C	B	0.17	5
IcC	Iao	C	B	0.17	5
JaC	Jaucas	S	A	0.1	5
JcC	Jaucas	S	A	0.1	5
KBID	Kailua	SIC	A	0.05	5
KCXD	Kaimu	STX-PEA	A	0.02	1
KDIE	Kaipoioi	L	B	0.17	5
KDVE	Kaipoioi	L	B	0.17	5

**RUSLE Soil Data
Island of Maui**

2/5/96

Map Unit Symbol	Soil Name	Surface Texture	Hydrologic Group	Kf	T
KGKC	Kamaole	STV-SIL	B	0.17	3
KGLC	Kamaole	STX-SIL	B	0.17	3
KLUD	Kaupo	STV-SIC	A	0.17	3
KLVD	Kaupo	STX-SIC	A	0.17	3
KMW	Kealia	SIL	D	0.17	5
KNXD	Keawakapu	STX-SIC	B	0.17	2
KRX	Koele	CL	B	0.17	5
KRX	Rock outcrop	UWB	D	0.02	1
KbB	Kahana	SIC	B	0.17	5
KbC	Kahana	SIC	B	0.17	5
KbD	Kahana	SIC	B	0.17	5
KnB	Keahua	SICL	B	0.17	5
KnC	Keahua	SICL	B	0.17	5
KnaB	Keahua	CB-SICL	B	0.17	5
KnaC	Keahua	CB-SICL	B	0.17	5
KnaD	Keahua	CB-SICL	B	0.17	5
Knbd	Keahua	STV-SIC	B	0.17	5
KncC	Keahua	SIC	B	0.17	5
KnhC	Keahua	CB-SIC	B	0.17	5
KnsC	Keahua	ST-SIC	B	0.17	5
KxC	Kula	L	B	0.17	3
KxD	Kula	L	B	0.17	3
KxaD	Kula	CB-L	B	0.17	3
KxbE	Kula	L	B	0.17	3
LME	Laumaia	L	B	0.17	3
LMF	Laumaia	L	B	0.17	3
LNE	Laumaia	STX-L	B	0.17	3
LaB	Lahaina	SIC	B	0.17	5
LaC	Lahaina	SIC	B	0.17	5
LaD	Lahaina	SIC	B	0.17	5
MID	Makaalae	SIC	B	0.15	4
MJD	Makaalae	STX-SIC	B	0.15	4
MWE	Makaalae	C	B	0.15	4
MXC	Makena	L	B	0.17	4
MYD	Malama	STX-MUC	A	0.02	1
MfB	Makawao	SIC	B	0.1	5
MfC	Makawao	SIC	B	0.1	5
MuA	Molokai	SICL	B	0.2	5
MuB	Molokai	SICL	B	0.2	5
MuC	Molokai	SICL	B	0.2	5
NAC	Naiwa	SICL	B	0.37	4
OAD	Oanapuka	STV-SIL	B	0.17	4
OED	Oanapuka	STX-SIL	B	0.17	4
OFC	Olelo	SIC	B	0.1	5

**RUSLE Soil Data
Island of Maui**

2/5/96

Map Unit Symbol	Soil Name	Surface Texture	Hydrologic Group	Kf	T
OMB	Oli	SIL	B	0.17	2
ONC	Olinda	L	B	0.17	3
OND	Olinda	L	B	0.17	3
ONE	Olinda	L	B	0.17	3
OPD	Opihikao	MUCK	D	0.02	1
PXD	Pane	SIL	B	0.17	5
PZUE	Puuone	S	C	0.1	3
PZVE	Puu pa	STV-SIL	A	0.2	3
PcB	Paia	SIC	B	0.17	5
PcC	Paia	SIC	B	0.17	5
PcC2	Paia	SIC	B	0.17	5
PfB	Pauwela	C	B	0.1	5
PfC	Pauwela	C	B	0.1	5
PfD	Pauwela	C	B	0.1	5
PpA	Pulehu	SIL	B	0.17	5
PpB	Pulehu	SIL	B	0.17	5
PrA	Pulehu	CB-SIL	B	0.17	5
PrB	Pulehu	CB-SIL	B	0.17	5
PsA	Pulehu	CL	B	0.17	5
PtA	Pulehu	CB-CL	B	0.17	5
PtB	Pulehu	CB-CL	B	0.17	5
TR	Tropaquepts	MK-SIL	D	0.1	5
ULD	Ulupalakua	SIL	B	0.17	3
UME	Uma	LCOS	A	0.05	1
UMF	Uma	LCOS	A	0.05	1
URD	Uma	LCOS	A	0.05	1
WID2	Waiakoa	STX-SIC	C	0.17	2
WbB	Wahikuli	SIC	C	0.17	2
WcB	Wahikuli	ST-SIC	C	0.17	2
WcC	Wahikuli	ST-SIC	C	0.17	2
WdB	Wahikuli	STV-SIC	C	0.17	2
WeB	Waiakoa	SICL	C	0.17	2
WeC	Waiakoa	SICL	C	0.17	2
WfB	Waiakoa	CB-SICL	C	0.17	2
WgB	Waiakoa	STV-SIC	C	0.17	2
WgC	Waiakoa	STV-SIC	C	0.17	2
WhB	Waiakoa	STX-SIC	C	0.17	2
WhC	Waiakoa	STX-SIC	C	0.17	2
WvB	Wailuku	SIC	B	0.17	5
WvC	Wailuku	SIC	B	0.17	5
WwC	Wailuku	CB-SIC	B	0.17	5
WxB	Wainee	STV-SIC	B	0.17	5
WxC	Wainee	STV-SIC	B	0.17	5
WyB	Wainee	STX-SIC	B	0.17	5
WyC	Wainee	STX-SIC	B	0.17	5
rAMD	Amalu	PT-SIC	D	0.05	2
rCI	Cinder land	CIND	A	0.02	5

**RUSLE Soil Data
Island of Maui**

2/5/96

Map Unit Symbol	Soil Name	Surface Texture	Hydrologic Group	Kf	T
rHOD	Honomanu	SIC	A	0.05	4
rHR	Honomanu	SIC	A	0.05	4
rHR	Amalu	PT-SIC	D	0.05	2
rHT	Hydrandepts	SICL	A	0.05	5
rHT	Tropaquods	PEAT	D	0.05	2
rLW	Lava flows	FRAG	A	0.02	1
rRK	Rock land	SICL	D	0.1	1
rRO	Rock outcrop	UWB	D	0.02	1
rRR	Rough broken land	SICL	C	0.1	3
rRS	Rough broken and ST	STV-SIC	C	0.1	3
rRT	Rough mountainous land	SICL	D	0.2	3
rSM	Stony alluvial land	STX-CL	B	0.28	5
rVS	Very stony land	STX-VFS	C	0.2	2

**RUSLE Soil Data
Island of Molokai**

2/5/96

Map Unit Symbol	Soil Name	Surface Texture	Hydrologic Group	Kf	T
ALE3	Alaeloa	SIC	B	0.1	5
AME3	Alaeloa	ST-SIC	B	0.1	5
ANE	Alaeloa	ST-SIC	B	0.1	5
AeE	Alaeloa	SIC	B	0.1	5
BS	Beaches	COS	A	0.05	5
CO	Colluvial land	STV-SIC	B	0.17	5
GL	Gullied land	VAR	C	0.37	5
HID	Halawa	SIC	B	0.1	4
HID3	Halawa	SIC	B	0.1	4
HcB	Haleiwa	SICL	B	0.17	5
HdC	Haleiwa	STV-SIC	B	0.17	5
HvA	Holomua	SIL	B	0.28	5
HvB	Holomua	SIL	B	0.28	5
HvB3	Holomua	SIL	B	0.28	5
HvC	Holomua	SIL	B	0.28	5
HvC3	Holomua	SIL	B	0.28	5
HyB3	Hoolehua	SICL	B	0.17	4
HzA	Hoolehua	SIC	B	0.17	5
HzB	Hoolehua	SIC	B	0.17	5
HzC	Hoolehua	SIC	B	0.17	5
HzE	Hoolehua	SIC	B	0.17	5
JL	Jaucas	LS	A	0.1	5
JL	Blown-out land	SICL	B	0.17	2
JaC	Jaucas	S	A	0.1	5
KATD	Kahanui	GR-SIC	D	0.1	3
KFID	Kalaupapa	SICL	D	0.17	1
KKTC	Kapuhikani	STX-C	D	0.28	2
KMW	Kealia	SIL	D	0.17	5
KRL	Koele	SICL	B	0.17	5
KRL	Badland	WB	D	0.49	3
KcB	Kalae	SIC	B	0.1	5
KcC	Kalae	SIC	B	0.1	5
KcC3	Kalae	SIC	B	0.1	5
KcD3	Kalae	SIC	B	0.1	5
KcE3	Kalae	SIC	B	0.1	5
KIA	Kawaihapai	CL	B	0.17	5
KIaB	Kawaihapai	ST-CL	B	0.17	5
KIbC	Kawaihapai	STV-CL	B	0.17	5
KIcB	Kawaihapai	SICL	B	0.17	5
LaA	Lahaina	SIC	B	0.17	5
LaB	Lahaina	SIC	B	0.17	5
LaC	Lahaina	SIC	B	0.17	5
LaC3	Lahaina	SIC	B	0.17	5
LaD3	Lahaina	SIC	B	0.17	5
LaE3	Lahaina	SIC	B	0.17	5
LuA	Lualualei	C	D	0.28	5
MZ	Marsh	MPT	D	0.02	3

**RUSLE Soil Data
Island of Molokai**

2/5/96

Map Unit Symbol	Soil Name	Surface Texture	Hydrologic Group	Kf	T
MmA	Mala	SIC	B	0.17	4
MmB	Mala	SIC	B	0.17	4
MuA	Molokai	SICL	B	0.2	5
MuB	Molokai	SICL	B	0.2	5
MuB3	Molokai	SICL	B	0.2	5
MuC	Molokai	SICL	B	0.2	5
MuC3	Molokai	SICL	B	0.2	5
MvD3	Molokai variant	SICL	B	0.2	5
NAC	Naiwa	SICL	B	0.37	4
NAC3	Naiwa	SICL	B	0.37	3
NLE	Niulii	SICL	C	0.1	2
NME	Niulii variant	SICL	C	0.1	2
OFC	Olelo	SIC	B	0.1	5
OME	Oli	SIL	B	0.17	2
OMF	Oli	SIL	B	0.17	2
OOE	Olokui	SICL	D	0.05	2
PID	Pamoa	SIC	B	0.28	5
PID2	Pamoa	SIC	B	0.28	5
PJD2	Pamoa	ST-SIC	B	0.28	5
PoB	Pulehu	SL	B	0.17	5
PoaB	Pulehu	ST-SL	B	0.17	5
PsA	Pulehu	CL	B	0.17	5
WoB	Waihuna	C	D	0.28	5
WoC	Waihuna	C	D	0.28	5
WoD	Waihuna	C	D	0.28	5
WrA	Waikapu	SICL	B	0.17	5
WrB	Waikapu	SICL	B	0.17	5
WrB3	Waikapu	SICL	B	0.17	5
WrC3	Waikapu	SICL	B	0.17	5
rAMD	Amalu	PT-SIC	D	0.05	2
rAOD	Amalu	PT-SIC	D	0.05	2
rRK	Rock land	SIC	D	0.1	1
rRO	Rock outcrop	UWB	D	0.02	1
rRR	Rough broken land	SIC	C	0.1	3
rRT	Rough mountainous land	SICL	D	0.2	3
rSM	Stony alluvial land	STX-SIC	B	0.28	5
rSO	Stony colluvial lan	STX-SIC	B	0.17	5
rTO	Tropaquods	PEAT	D	0.05	2
rVS	Very stony land	STX-SIC	C	0.28	2
rVT2	"Very stony land, er"	STX-SIC	C	0.28	2

RUSLE Soil Data
Island of Oahu

2/5/96

Map Unit Symbol	Soil Name	Surface Texture	Hydrologic Group	Kf	T
ALF	Alaeloa	SIC	B	0.1	5
AeE	Alaeloa	SIC	B	0.1	5
BS	Beaches	COS	A	0.05	5
CR	Coral outcrop	UWB	D	0.02	1
EaB	Ewa	SICL	B	0.17	5
EaC	Ewa	SICL	B	0.17	5
EmA	Ewa	SICL	C	0.17	3
EmB	Ewa	SICL	C	0.17	3
EwA	Ewa	ST-SIC	B	0.17	5
EwB	Ewa	ST-SIC	B	0.17	5
EwC	Ewa	ST-SIC	B	0.17	5
FL	Fill land, mixed	VAR	D	0.1	3
Fd	Fill land	SICL	C	0.1	2
HJE	Halawa	SIL	B	0.17	4
HJF2	Halawa	SIL	B	0.17	4
HLMG	Helemano	SIC	B	0.17	4
HeA	Haleiwa	SIC	B	0.17	5
HeB	Haleiwa	SIC	B	0.17	5
HnA	Hanalei	SIC	C	0.17	5
HnB	Hanalei	SIC	C	0.17	5
HoB	Hanalei	ST-SIC	C	0.17	5
HxA	Honouliuli	C	D	0.28	5
HxB	Honouliuli	C	D	0.28	5
JaC	Jaucas	S	A	0.1	5
JcC	Jaucas	S	A	0.1	5
KHMC	Kaneohe	SICL	B	0.1	5
KHME	Kaneohe	SICL	B	0.1	5
KHMF	Kaneohe	SICL	B	0.1	5
KHOF	Kaneohe	SIC	B	0.1	5
KIG	Kapaa	SIC	B	0.1	5
KPZ	Kemoo	SIC	B	0.17	5
KPZ	Badland	WB	D	0.49	3
KTKE	Kokokahi	STV-C	B	0.28	5
KaB	Kaena	C	D	0.28	5
KaC	Kaena	C	D	0.28	5
KaeB	Kaena	ST-C	D	0.28	5
KaeC	Kaena	ST-C	D	0.28	5
KaeD	Kaena	ST-C	D	0.28	5
KanE	Kaena	STV-C	D	0.28	5
Kfa	Kaloko	C	D	0.17	5
Kfb	Kaloko variant	C	D	0.17	5
KgB	Kaneohe	SIC	B	0.1	5
KgC	Kaneohe	SIC	B	0.1	5
KIA	Kawaihapai	CL	B	0.17	5
KIB	Kawaihapai	CL	B	0.17	5
KIC	Kawaihapai	CL	B	0.17	5
KIaA	Kawaihapai	ST-CL	B	0.17	5

**RUSLE Soil Data
Island of Oahu**

2/5/96

Map Unit Symbol	Soil Name	Surface Texture	Hydrologic Group	Kf	T
KlaB	Kawaihapai	ST-CL	B	0.17	5
KlbC	Kawaihapai	STV-CL	B	0.17	5
KmA	Keaau	C	D	0.28	3
KmaB	Keaau	ST-C	D	0.28	3
KmbA	Keaau	C	D	0.28	3
KpB	Kemoo	SIC	B	0.17	5
KpC	Kemoo	SIC	B	0.17	5
KpD	Kemoo	SIC	B	0.17	5
KpE	Kemoo	SIC	B	0.17	5
KpF	Kemoo	SIC	B	0.17	5
KsB	Koko	SIL	B	0.2	4
KsC	Koko	SIL	B	0.2	4
KsD	Koko	SIL	B	0.2	4
KtC	Kokokahi	C	D	0.28	5
KuB	Kolekole	SICL	C	0.17	3
KuC	Kolekole	SICL	C	0.17	3
KuD	Kolekole	SICL	C	0.17	3
KyA	Kunia	SIC	B	0.17	5
KyB	Kunia	SIC	B	0.17	5
KyC	Kunia	SIC	B	0.17	5
LPE	Lualualei	STX-C	D	0.28	5
LaA	Lahaina	SIC	B	0.17	5
LaB	Lahaina	SIC	B	0.17	5
LaC	Lahaina	SIC	B	0.17	5
LaC3	Lahaina	SIC	B	0.17	5
LeB	Leilehua	SIC	B	0.1	5
LeC	Leilehua	SIC	B	0.1	5
LoB	Lolekaa	SIC	B	0.1	5
LoC	Lolekaa	SIC	B	0.1	5
LoD	Lolekaa	SIC	B	0.1	5
LoE	Lolekaa	SIC	B	0.1	5
LoF	Lolekaa	SIC	B	0.1	5
LuA	Lualualei	C	D	0.28	5
LuB	Lualualei	C	D	0.28	5
LvA	Lualualei	ST-C	D	0.28	5
LvB	Lualualei	ST-C	D	0.28	5
MBL	Mahana	SICL	B	0.43	5
MBL	Badland	WB	D	0.49	3
MZ	Marsh	MPT	D	0.02	3
McC2	Mahana	SICL	B	0.43	5
McD2	Mahana	SICL	B	0.43	5
McE2	Mahana	SICL	B	0.43	5
MdB	Makalapa	C	D	0.28	3
MdC	Makalapa	C	D	0.28	3
MdD	Makalapa	C	D	0.28	3
MkA	Makiki	CL	B	0.17	5

**RUSLE Soil Data
Island of Oahu**

2/5/96

Map Unit Symbol	Soil Name	Surface Texture	Hydrologic Group	Kf	T
MIA	Makiki	ST-CL	B	0.17	5
MnC	Mamala	ST-SICL	D	0.17	1
MoB	Manana	SICL	C	0.1	5
MoC	Manana	SICL	C	0.1	5
MoD2	Manana	SICL	C	0.1	5
MpB	Manana	SIC	C	0.1	5
MpC	Manana	SIC	C	0.1	5
MpD	Manana	SIC	C	0.1	5
MpD2	Manana	SIC	C	0.1	5
MpE	Manana	SIC	C	0.1	5
Ms	Mokuleia	L	B	0.1	2
Mt	Mokuleia	CL	B	0.1	2
Mtb	Mokuleia	C	B	0.17	2
MuA	Molokai	SICL	B	0.2	5
MuB	Molokai	SICL	B	0.2	5
MuC	Molokai	SICL	B	0.2	5
MuD	Molokai	SICL	B	0.2	5
PID	Pamoa	SIC	B	0.28	5
PYD	Papaa	C	D	0.28	4
PYE	Papaa	C	D	0.28	4
PYF	Papaa	C	D	0.28	4
PZ	Paumalu	SIC	B	0.1	5
PZ	Badland	WB	D	0.49	3
PaC	Paaloa	SIC	B	0.1	5
PbC	Paaloa	C	B	0.1	5
PeB	Paumalu	SIC	B	0.1	5
PeC	Paumalu	SIC	B	0.1	5
PeD	Paumalu	SIC	B	0.1	5
PeE	Paumalu	SIC	B	0.1	5
PeF	Paumalu	SIC	B	0.1	5
Ph	Pearl harbor	C	D	0.28	5
PkB	Pohakupu	SICL	B	0.17	5
PkC	Pohakupu	SICL	B	0.17	5
PsA	Pulehu	CL	B	0.17	5
PuB	Pulehu	ST-CL	B	0.17	5
PvC	Pulehu	STV-CL	B	0.17	5
TAE	Tantalus	SIL	A	0.1	3
TAF	Tantalus	SIL	A	0.1	3
TCC	Tantalus	SICL	A	0.1	3
TCE	Tantalus	SICL	A	0.1	3
TR	Tropaequepts	MK-SIL	D	0.1	5
WaA	Wahiawa	SIC	B	0.15	5
WaB	Wahiawa	SIC	B	0.15	5
WaC	Wahiawa	SIC	B	0.15	5
WaD2	Wahiawa	SIC	B	0.15	5
WkA	Waialua	SIC	B	0.28	5

**RUSLE Soil Data
Island of Oahu**

2/5/96

Map Unit Symbol	Soil Name	Surface Texture	Hydrologic Group	Kf	T
WkB	Waialua	SIC	B	0.28	5
WIB	Waialua	ST-SIC	B	0.28	5
WIE	Waialua	ST-SIC	B	0.28	5
WmD	Waialua	STV-SIC	B	0.28	5
WnB	Waialua	C	B	0.28	5
WpB	Waikane	SIC	B	0.1	5
WpC	Waikane	SIC	B	0.1	5
WpE	Waikane	SIC	B	0.1	5
WpF	Waikane	SIC	B	0.1	5
WpF2	Waikane	SIC	B	0.1	5
WpaE	Waikane	ST-SIC	B	0.1	5
WzA	Waipahu	SIC	C	0.28	5
WzB	Waipahu	SIC	C	0.28	5
WzC	Waipahu	SIC	C	0.28	5
rAAE	Alakai	MPT	C	0.05	2
rCI	Cinder land	CIND	A	0.02	5
rRK	Rock land	SIC	D	0.1	1
rRO	Rock outcrop	UWB	D	0.02	1
rRT	Rough mountainous land	SICL	D	0.2	3
rST	Stony land	STX-C	B	0.28	5
rSY	Stony steep land	STX-SIC	B	0.28	5
rTP	Tropohumults	SIC	C	0.1	4
rTP	Dystrandepts	SIC	B	0.1	4

Surface Texture Abbreviations

(from National Soil Survey Handbook, 1996)

ASHY	Ashy
BY	Bouldery
C	Clay
CB	Cobbly
CIND	Cinder
CL	Clay Loam
COS	Coarse sand
FRAG	Fragmental
FSL	Fine sandy loam
GR	Gravelly
GRV	Very gravelly
GRX	Extremely gravelly
L	Loam
LFS	Loamy fine sand
LCOS	Loamy coarse sand
LS	Loamy sand
MK	Mucky
MPT	Mucky peat
MUCK	Muck
PEAT	Peat
PT	Peaty
S	Sand
SIC	Silty clay
SICL	Sandy clay loam
SIL	Silty loam
SL	Sandy loam
ST	Stones
STV	Very Stony
STX	Extremely stony
UWB	Unweathered bedrock
VAR	Variable
VFS	Very fine sand
VFSL	Very fine sandy
WB	Weathered bedrock