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**A global framework of soil organic carbon
stocks under native vegetation for use with
the simple assessment option of the Carbon
Benefits Project system**
(Ver. 1.0)

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(December 2010)



World Soil Information



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This study was carried out in the framework of the GEF co-funded Carbon Benefits Project: Measuring, modelling and monitoring; for details see the [CBP Component A website](#).

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Front cover: Changes in natural vegetation along a semi-desert and savanna transition, Namibia, will affect soil carbon stocks (Credit: ISRIC World Soil Information Image Catalogue)

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PREFACE

The Carbon Benefits Project (CBP) clearly falls within the sustainable land management remit of ISRIC – World Soil Information. It is a logical follow up of previous projects on soil organic carbon stocks and changes, to which our Institute has contributed. These include *Management options for increased soil carbon sequestration* for the Dutch National Research Program on Global Air Pollution and Climate Change, and the GEF co-funded project on *Assessment of soil organic carbon and changes at national scale* (GEFSOC).

The United Nations Environment Programme (UNEP) is leading the GEF co-funded CPB project (2009-2012). It is being implemented by a large international consortium led by Colorado State University (CSU) and the World Wildlife Fund (WWF). The project addresses probably the most pressing global issue in soil management; how to return to the soil the one third of the excess carbon dioxide that is now in the atmosphere as a result of land use change that has occurred over the last century. At the same time, it addresses the issue of climatic change mitigation and adaptation. Soil organic matter maintenance and improvement are important for soil fertility and soil water retention, and thereby food security. These aspects are also considered in the collaborative *Green Water Credits* programme.

The CBP project is developing a standardized system for GEF and other sustainable land management projects to measure, monitor, model and forecast carbon stock changes and net greenhouse gas (GHG) emissions at various scales from project to the national level. Depending on the scale, different methodological approaches will be needed ranging from simple bookkeeping models to elaborate process-based models. The CBP system will be end-to-end that is applicable at all stages of a project cycle, cost effective and user friendly.

ISRIC's main contribution to the CBP project, in its capacity as World Data Centre for Soils, is to collate and analyse historic soil data for developing a global framework of soil organic carbon stocks under native vegetation across the range of world climate and soil types. This framework is compatible with IPCC Tier 1 level greenhouse gas inventories at national scale, and specifically developed for data scarce regions.

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SUMMARY

This report describes the compilation of a global framework of soil organic carbon stocks under native vegetation compatible with IPCC Tier 1 level, inventory assessments. The study was undertaken in the framework of the GEF co-funded Global Carbon Benefits (CBP) project, for application at national scale in data poor regions. The framework considers default IPCC classes for climate and mineral soils. The necessary soil data and auxiliary information on land use and native vegetation were derived from the ISRIC-WISE soil profile database, containing some 10250 profiles, complemented with some 1900 profiles from so far under-represented IPCC climate-soil regions. This study only considers profiles under natural vegetation for which measured soil organic carbon (SOC) data are available (some 5560 profiles). Gaps in the measured data for bulk density and proportion of coarse fragments, needed to compute SOC stocks, were filled using consistent taxotransfer procedures. Probable outliers within each IPCC climate-soil cluster (or functional group) were flagged and subsequently rejected using a robust outlier-rejection procedure. Average SOC stocks, to the IPCC reference depth of 30 cm, vary greatly within each functional group, with coefficients of variation (CV) ranging from 22% to 106%, with an average CV of 59%. Present results indicate that the estimated, default, relative error of $\pm 90\%$ (defined as $2 \times \text{SD} / \text{AVG}$) assumed irrespective of climate region and mineral soil type in the 2006 IPCC Guidelines is too conservative. Overall, estimates of average SOC stocks to 30 cm presented here are lower than those listed in the 2006 IPCC Guidelines (though not necessarily in the statistical sense) that drew on a smaller selection of soil profiles from a more limited geographic area. They represent globally averaged values, per broad IPCC climate-soil region, of reference SOC stocks under native vegetation that may differ from country/region specific values. Finer criteria for defining climate zones and soil types, and replacing default reference stocks and stock change factors with country/region-specific values using Tier 2 methods, will be necessary to reduce uncertainty.

Keywords: Carbon Benefits Project, IPCC Guidelines, climate zone, soil classes, soil carbon stocks, native vegetation, uncertainty

1 INTRODUCTION

The GEF co-funded Carbon Benefits Project (CBP), executed by the United Nations Environment Programme (UNEP-DEWA) and implemented by a large international consortium, will provide scientifically rigorous and cost-effective tools to establish the net carbon benefits of sustainable land management interventions in terms of protected or enhanced carbon stocks and reduced greenhouse-gas emissions (Milne *et al.* 2010ab). The CBP system will be applicable at various scales, from the national level to the project-level. Upon its completion in 2012, the tool will be made available freely as a web-accessible system; for details see the CBP Component A website¹.

Carbon inventory assessments involve the estimation of stocks and net fluxes of carbon from different land use systems in a given area over a given period and under a given management system. Ultimately, the scale and objective of a project will determine the methods and data that should be used for the carbon inventory (Ravindranath and Ostwald 2008). Typically, default data sets for predefined climate zones, land cover and soil classes will be used at national scale in data poor countries in combination with coarse, empirical calculation approaches. More detailed data sets and increasingly complex modelling approaches will often be required for inventories at sub-national up to project-level (IPCC 2006; Milne *et al.* 2007). This difference in methodological complexity and data requirements has been expressed in terms of tiers in the approach of the International Panel on Global Change (IPCC 1996, 2006). A shift from lower tier (1) to a higher tier (3) is associated with an increased complexity in terms of data requirements (i.e., regional specificity of model parameters) and achievable accuracy (Figure 1). Essentially, empirical Tier 1 and 2 methods represent land-use and management impacts on soil C stocks as a linear shift from one equilibrium state to another, which is a simplification. Alternatively, Tier 3 methods involve the development of an advanced forecasting system, incorporating process-based models such as RothC and Century (e.g., Del Grosso *et al.* 2005; Easter *et al.* 2007; Falloon and Smith 2002; Milne *et al.* 2007), to better represent the seasonal or annual variability in carbon dynamics and net GHG fluxes. Tier 3 level approaches can also take into account the long-term effects of antecedent land use and management (e.g., Schulp and Verburg 2009).

The simple assessment option of the CBP-system follows an IPCC Tier 1 level approach (Milne *et al.* 2010b). Stratification by broad climate region, land use/cover and soil class underlies Tier 1 approaches at national scale and broader. As indicated by Ravindranath and Ostwald (2008), IPCC Tier

¹ <http://carbonbenefitsproject-compa.colostate.edu/>

1 methods are designed to be the simplest possible to use. Equations and default parameter values, for example for emission and stock change factors, are provided in the IPCC Guidelines for National Greenhouse Gas Inventories (2006) (Hereafter referred to as IPCC₂₀₀₆ Guidelines). Conversely, countries and projects with detailed data on climatic conditions, soil types and land use and management are encouraged to develop and use project specific data sets for application at Tier 2 and 3 level (GOFC-GOLD 2009; IPCC 2006; Maia *et al.* 2010; Ravindranath and Ostwald 2008); such a capability will also be included in the new CBP system (Milne *et al.* 2010a).

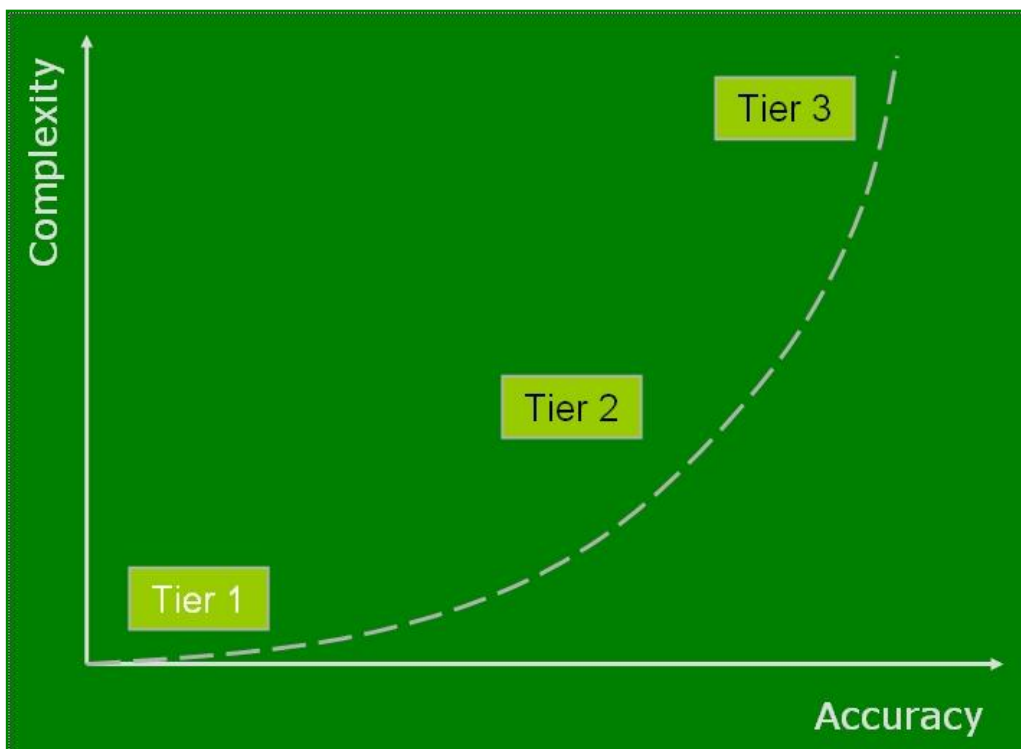


Figure 1. Project objectives in terms of desired accuracy of modelled net GHG emissions determine which IPCC tier level approach should be used for a given inventory

This study focuses on the development of a global framework, for Tier 1 level applications, of soil organic carbon stocks to 30 cm depth (SOC_{30} in kg C m^{-2}) under native vegetation across the range of world climates and soil types. SOC stocks under native, undisturbed vegetation are usually considered to be in dynamic equilibrium with other terrestrial C pools; they are largely controlled by climate, terrain, vegetation, soil mineralogy, particle/aggregate size, and their interactions (e.g., Canadell *et al.* 2007; Jenny 1941; Watson *et al.* 2000). Subject to human interventions, such as changes in land use and management, carbon levels in terrestrial systems are prone to change leading to changes in greenhouse gas emissions (Batjes and Sombroek 1997; Mann 1986; Ogle *et al.* 2003). Historically,

such changes have often led to decreased SOC levels unless appropriate soil nutrient and water management practices were adopted (Batjes 1999; Lal and Kimble 1994; Watson *et al.* 2000). As such, an important component of any inventory is to have baseline data for SOC stocks under native vegetation before agriculture or other human-induced changes. Such baseline data, however, are seldom available in a consistent, harmonized format at global level.

This study draws on the ISRIC-WISE database (Batjes 2009), complemented with new soil profiles from under-represented regions. For IPCC Tier 1 level assessments, the default data clustering procedure must be used because the default emission and stock change factors were derived for this scheme.

Besides providing revised, best estimates for SOC₃₀ stocks under native vegetation, for the default IPCC climate-soil classes, descriptive statistics are also presented for SOC stocks 0-50 and 0-100 cm. Profile data have also been clustered and analysed according to natural vegetation types and soil textural class. The corresponding descriptive statistics, as summarized in Appendix 2, are mainly provided for possible reference purposes. As such, they are not discussed in detail in the report, the focus of which is on developing a consistent procedure for estimating SOC₃₀ stocks under natural vegetation, for use with the simple assessment option of the CBP-system.

Carbon stocks in organic soils are not explicitly considered when using Tier 1 or Tier 2 methods. Instead, the annual C flux from organic soils following drainage is estimated using an annual emission factor (IPCC, 2006, p. 2.35). Therefore, SOC stocks for undisturbed organic soils are not discussed in detail in this report. Similarly, soil carbonate carbon, also called inorganic carbon, is only considered if using a Tier 3 level method and thus not considered in this study.

This report comprises five chapters and two Appendices. Data and methods are presented in Chapter 2. Results are presented in Chapter 3 and discussed in Chapter 4, while conclusions are drawn in Chapter 5. Potential sources of uncertainty are described throughout the report in accordance with IPCC *good practice*.

2 DATA AND METHODS

2.1 Spatial data

2.1.1 IPCC climate zones

Procedures and criteria for mapping climate regions, for use in Tier 1 level inventories, are detailed in the Guidelines for National Greenhouse Gas Inventories (IPCC 2006, p. 3.39). The classification scheme is based on elevation, mean annual temperature (MAT), mean annual precipitation (MAP), mean annual precipitation to potential evapotranspiration ratio (MAP/PET), and frost occurrence (Figure 2). The resulting, global map considers five broad climate zones (tropical, warm temperate, cool temperate, boreal and polar) and 12 subdivisions (Figure 3).

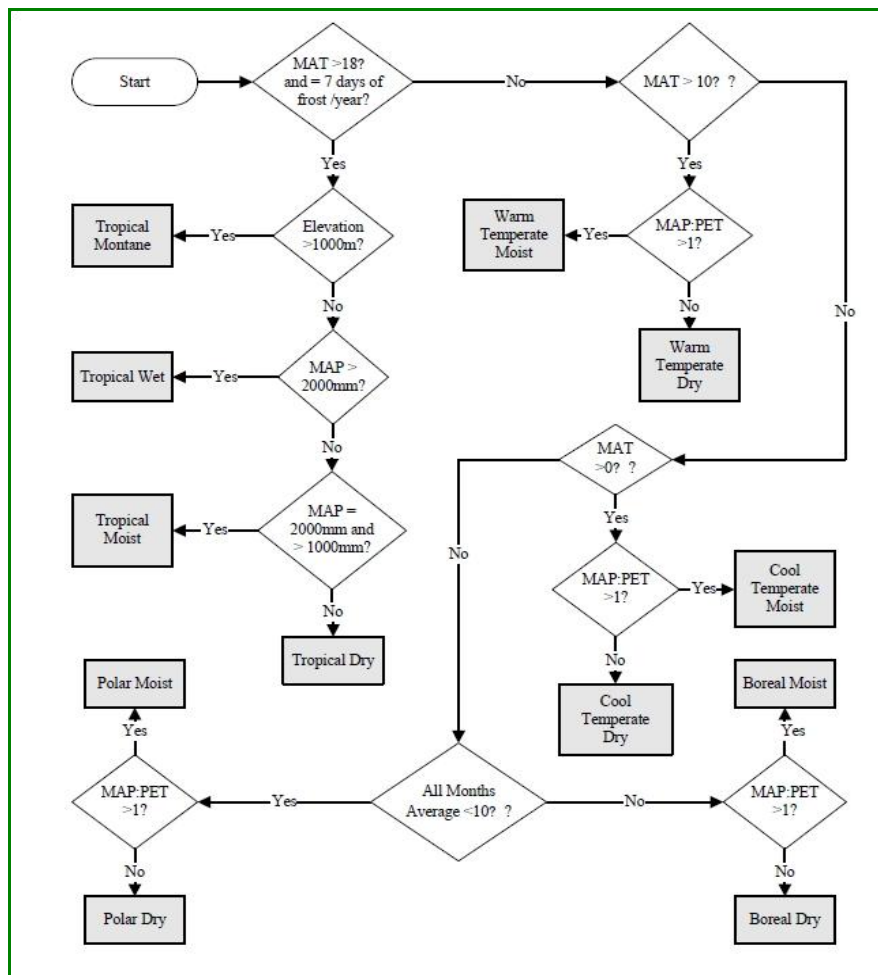


Figure 2 Classification scheme for default IPCC climate regions
(Source: IPCC 2006, p. 3.39)

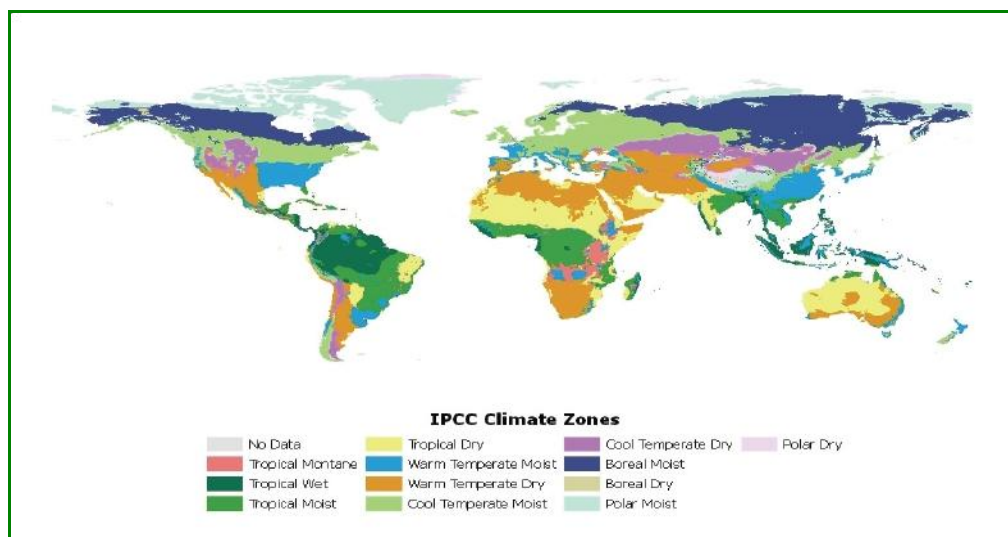


Figure 3. Global distribution of IPCC climate zones
(Source: IPCC 2006, p. 3.38)

2.1.2 IPCC soil classes

The IPCC₂₀₀₆ Guidelines consider seven soil classes for Tier 1 level inventories: high activity (HAC), low activity (LAC), sandy (SAN), spodic (POD), volcanic (VOL), wetland (WET) and organic (ORG). These broad classes are derived from soil classification either according to WRB (2006) or USDA Soil Taxonomy (Soil Survey Staff 2010) using a strict sequential (IPCC 2006, p. 3.40-3.41), yet pedologically unsophisticated, approach. Using this scheme (Figure 4) in combination with information about the geographic distribution of WRB soil groups worldwide (HWSD, see FAO/IIASA/ISRIC/ISSCAS/JRC 2009), the CBP project has created a GIS map of default IPCC soil classes (Figure 5). The clustering procedure and associated uncertainties are discussed in Batjes (2010). For example, HWSD considers over 60 different FAO soil units for Africa while the IPCC map only shows seven broad soil classes (at the same scale and resolution).

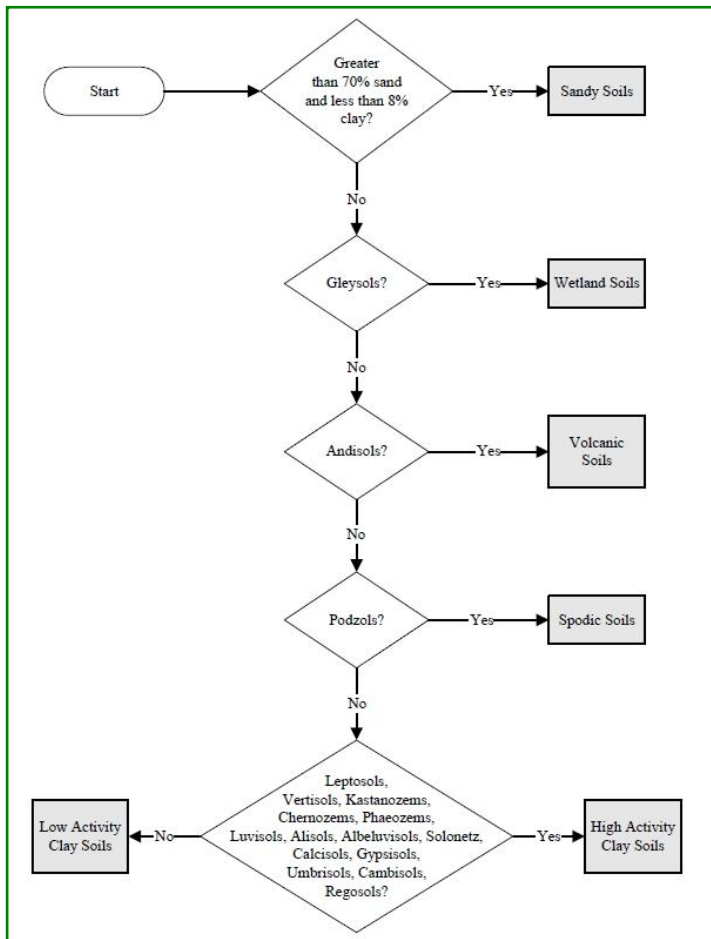


Figure 4. IPCC Tier 1 level classification scheme for mineral soil types based on the WRB soil classification system (Source: IPCC 2006)

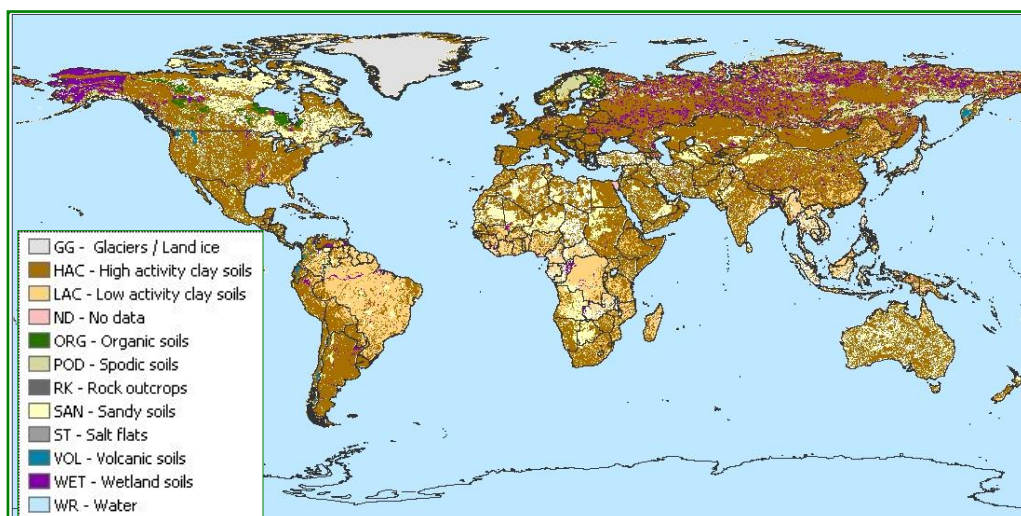


Figure 5. Worldwide distribution of dominant IPCC soil classes (Source: Batjes 2010)

2.2 Point data

2.2.1 Soil profile data

Development of a global framework of SOC stocks under native vegetation, across the range of world climates and soil types, requires access to a wide range of soil profile data (Figure 6), harmonized into a single database using consistent procedures.



Figure 6. Organic carbon levels in soils vary widely according to climate, parent material, topographic position, textural class, natural vegetation and land use history (Credit: ISRIC - World Soil Information Image Catalogue)

This study draws heavily on soil profile data derived from past surveys; it involved no new soil sampling. The methods for locating the soil profiles in the field depended on the purpose of the original investigations, often-systematic soil surveys. In such surveys, sample sites are generally selected as typical of a soil mapping unit (Landon 1991; Rossiter 2004; Soil Survey Staff 1983). This purposive sampling can provide reasonable estimates when a population is very variable and resources allow few sites to be examined (McKenzie *et al.* 2000; Webster and Oliver 2001). However, there is a risk of bias as purposive sampling relies heavily on personal (expert) judgement. As indicated by McKenzie *et al.* (2000) and others, there is no way of knowing just how good this judgement is. The only way to avoid bias inherent in purposive sampling is to follow probabilistic sampling (e.g. Snedecor and Cochran 1980), as recommended for digital soil mapping (Sanchez *et al.* 2009). For example, this is necessary to account objectively for short distance variation in vegetation, which can have marked effects on soil carbon levels (Figure 7). For many areas of the world, however, legacy soil data (i.e., data derived from conventional soil survey) will be the only source of information for

estimating pre-clearing soil organic carbon levels at global scale as required for IPCC Tier 1 level inventories.

This study uses soil profile data held in the ISRIC-WISE database, some 10253 (Batjes 2008, 2009), most of which are geo-referenced within defined limits. These were complemented with some 1900 additional geo-referenced profiles collated in the framework of the CBP project; special attention was paid to profiles under natural vegetation. Most of the new (historic) additions come from temperate and boreal regions that, so far, were under-represented in WISE (Table 1).



Figure 7. Short distance variation in vegetation determines soil carbon levels in sandy soils in Urumqi, Xinjiang region, China (Credit: JH Kauffman)

Table 1. Number of new profiles added to the ISRIC-WISE database by UN region

UN Region ^a	n
Africa – Eastern	87
Africa – Middle	2
Africa – Northern	8
Africa – Southern	3
Africa – Western	42
America – Caribbean	4
America – Central	2

UN Region ^a	n
America – Northern	1098
America – South	42
Antarctica	20
Asia – Eastern	60
Asia – Southern	1
Asia – Western	50
Europe – Eastern	65
Europe – Northern	115
Europe – Southern	92
Europe – Western	118
Oceania - Australia and New Zealand	100

^a Actual UN region names are like “Western Europe” rather than “Europe-Western” as used here for aggregation purposes.

The global distribution of the geo-referenced profiles, and regional gaps, used for this study is shown in Figure 8. Points shown here include both profiles under (semi)natural vegetation and agricultural use.



Figure 8. Location of geo-referenced profiles in the updated WISE database

All primary profile data were screened and harmonized in accordance with standard protocols, for details see Batjes and Bridges (1994). Soil profiles were characterized according to the FAO Legends (FAO-Unesco 1974; FAO 1988) and at Reference Soil Group level of the World Reference Base for Soil Resources (WRB 2006). When specified in the source materials, information on land use (at the time of sampling) and natural vegetation was harmonized into uniform classes (see Batjes 1995a, 2008). This was done according to coding conventions of the Guidelines for Soil Description (FAO 2006; FAO/ISRIC 1990) and SOTER Procedures Manual (van Engelen *et al.* 2005); for details see Section 2.2.4.

Issues associated with the limited comparability of soil analytical procedures worldwide have been discussed elsewhere (e.g. Batjes 2002; Sombroek *et al.* 2000; van Reeuwijk 1983; Vogel 1994). A key issue with the available historic organic carbon data is the inaccuracy of the Walkley-Black wet-combustion method, associated with the incomplete oxidation of soil organic matter. The actual C-recovery can vary with climate, soil type, land use, management practices, vegetation type and soil depth (Matus *et al.* 2009; Meersmans *et al.* 2009; Meersmans *et al.* 2011; Skjemstad *et al.* 1990). By convention, however, most soil laboratories use a recovery factor of ~ 1.3 to account for the incomplete oxidation (USDA-NRCS 2004; van Reeuwijk 2002) and this factor is maintained here.

Recently, soil organic carbon content is increasingly obtained through dry-combustion (LECO 1996); SOC content is then determined from total soil carbon minus C held in carbonates (see Soil Survey Staff 1996).

Similarly, large uncertainties are associated with the different methods in use worldwide for the determination of bulk density and proportion of fragments > 2 mm (e.g. Sombroek *et al.* 2000; Vogel 1994). Oven dry bulk density measured in "fixed volume ring cores" (pF-rings) is generally lower than that measured using saran-coated natural clods. A complicating factor is that bulk density is actually a function rather than a single property, as it varies with (field) moisture status (Soil Survey Staff 1996). Additional uncertainties arise when gaps in the measured data need to be filled using pedotransfer procedures (Batjes *et al.* 2007; Benites *et al.* 2007; Bernoux *et al.* 1998; Huntington *et al.* 1989; Lee *et al.* 2009a). For this study, missing bulk density data were calculated using taxotransfer procedures developed for the GEFSOC project (Batjes *et al.* 2007).

2.2.2 Allocation to IPCC climate zone

Default climate at the site of the geo-referenced profiles was estimated using GIS overlay with the IPCC climate zones map. Inherent uncertainties at this stage are associated with the coarse resolution of the climatic map as well as the positional accuracy of individual soil profiles. Many of the profiles considered here date from the pre-GPS period; they have been geo-referenced within defined limits (see Batjes and Bridges 1994; Batjes 2008). Possible implications of positional accuracy of soil sampling points for digital mapping have been discussed by Grimm and Behrens (2010).

2.2.3 Allocation to IPCC soil class

Reference soil groups of WRB correlate well with major groupings of the Revised Legend (FAO 1988). All profiles in WISE were allocated to a

mineral soils class in accordance with Figure 4; organic soils (Histosols) were allocated to the ORG class. Possible sources of uncertainty associated with the classification of a given soil profile have been discussed elsewhere (Kauffman 1987; van Reeuwijk 1983).

Inherently, the default IPCC₂₀₀₆ scheme for clustering mineral soils into six broad functional classes is coarse. For example, by definition the HAC class (i.e., $CEC_{\text{clay}} > 24 \text{ cmol kg}^{-1}$) includes “deep soils rich in organic matter with a calcareous subsoil” (Chernozems) as well as “deep soils with subsurface accumulation of high activity clays, rich in exchangeable aluminium” (Alisols). Elevated Al-levels are often detrimental for plant growth leading to low inputs of soil organic matter, especially in regions with a pronounced dry season. Conversely, under humid conditions combined with low temperatures as observed in tropical highlands, the accumulation of soil organic matter can be considerable in some Alisols (Deckers *et al.* 1998). Further, the natural variation in SOC stocks within a given soil type is often large (Beckett and Webster 1971; Burrough 1993). Despite this known diversity, no attempt has been made here to refine the default IPCC₂₀₀₆ scheme –proposing new criteria for clustering soil or climate types would require the derivation of new reference C stocks and stock change factors (IPCC 2006) for the world, which is beyond the scope of this study.

2.2.4 Flagging profiles under natural vegetation

Coding system for vegetation and land-use

Profiles in WISE were collected between 1925 and 2010; about two-thirds of the descriptions originate from the period 1955 to 1995. Changes in land use and management will directly affect the input and decomposition of organic matter in the soil and thereby affect soil organic carbon dynamics. For this study, it is necessary to know the type of natural vegetation respectively land use at the time of profile description and sampling. However, as has been indicated by various researchers there still is no single acceptance of a single system for describing natural and semi-natural vegetation (FAO 2006; IPCC 2003; Watson *et al.* 2000). This makes the comparison or harmonization of such classes cumbersome, particularly at the global level (Verburg *et al.* 2010). Selection of a particular classification system thus remains arbitrary.

Land use and natural vegetation in WISE are characterized using international systems adopted for the Guidelines for Soil Profile Description (FAO 2006; FAO/ISRIC 1990) and the World Soil and Terrain Database (van Engelen and Wen 1995; van Engelen and Dijkshoorn 2010). For natural vegetation, these procedures follow the international classification and mapping system of UNESCO (1973).

The information required for harmonizing data on land use and natural vegetation, according to the above systems, was extracted from the various source materials that underpin WISE. For many profiles, however, the primary information is rather scanty if not lacking altogether. Further, when provided it has been presented according to a range of different classification schemes. Therefore, generalizations are prone to occur when the primary descriptions are converted (harmonized) to the broad land use and natural vegetation classes adopted for WISE (see below), but the associated uncertainty cannot be quantified.

Land use in WISE is coded into 8 broad classes: Crop Agriculture (A), Mixed farming (M), Animal husbandry (H), Forestry (F), Extraction and cultivation (E), Nature protection (P), Settlement industry (S), and Not used and not managed (U). Similarly, five broad classes are used for describing natural vegetation at the highest hierarchical level: Closed forest (F), Woodland (W), Shrub (S), Dwarf shrub (D), and Herbaceous (H). The various classes and subclasses are described in the technical documentation for WISE (Batjes 2008).

IPCC₂₀₀₆ Tier I level procedures consider reference SOC stocks under *undifferentiated*, natural vegetation. Nonetheless, it is useful to assess here in how far differences in broad types of natural vegetation affect SOC stocks in a given IPCC climate-soil zone. To this avail, the number of vegetation classes has been reduced to three from the original five UNESCO (1973) classes. The Forest (F) and Woodland (W) classes were regrouped into a new *Forest* category (coded A to avoid confusion) that is dominated by trees. Similarly, the scrub (S) and dwarf scrub (D) classes have been clustered into *Shrublands* (B), while the *Herbaceous* (H) class was simply re-coded to class C. At a lower hierarchical level, however, the UNESCO subclasses for grasslands, ranging from and Short to Tall, were clustered into undifferentiated grasslands (CG). Similarly, all semi-deciduous and deciduous subclasses within the original F, W, S and C classes were merged into broader *Deciduous, undefined* subclasses (coded Y).

Clustering procedure

Using simple decision rules, the harmonized information on land use and natural vegetation was used to cluster profiles according to whether they were considered to be under "cultivation or disturbed conditions" (CULT) or (semi)natural vegetation (NATV) at the time of profile description/sampling.

If land use is coded as belonging to "Not used and not Managed" (U), "Natural forest and woodland" (FN), "Nature Protection" (P), or "Extraction

and collection" (E), the corresponding profile is allocated to the NATV class. In case of "Animal husbandry, Extensive grazing" (HE), which includes nomadism, semi-nomadism and ranching, profiles are assigned to NATV unless there is some evidence of anthropogenic influences as reflected by, for example, the presence of an Ap horizon or a disturbed/degraded topsoil. The latter assessment is based on analysis of descriptive information on natural vegetation/land use when available. For example, when selected text-strings that may point at a possible disturbance (e.g., "graz" for grazing, cult for "cultivation," "agric" for agricultural use, "farm" for farmland or farmed land, or "erosion" or "erod" for eroded/degraded systems) are included in the descriptions, the corresponding profile is automatically allocated to CULT.

Similarly, if land use is coded as "Crop agriculture" or "Mixed farming" the corresponding profile is allocated to CULT. Based on the class definition (FAO 2006), profiles under "Animal husbandry, intensive grazing" (H), which includes animal production and dairying, or "Plantation Forestry" (FP) are considered to be disturbed to some extent and therefore assigned to the CULT class.

In clustering the data, codes for land use are always given prevalence over those for natural vegetation when both are provided for a given site. If only a code for natural vegetation is provided, the profile is allocated to NATV (also taking into account the above rules). Alternatively, if there is no code for land use as well as natural vegetation then the profile is considered to belong to NATV. This has been done here because, by convention, until recently in many countries soil surveyors were instructed to sample soil profiles under natural vegetation. Nonetheless, as an extra control, all profiles with topsoils that show effects of prolonged cultivation (i.e., horizon designation like Ap, Op, and Hp) were assigned to CULT. Subsequently, as a final check, all Anthrosols were assigned to CULT irrespective of their current land use.

2.3 Methods

2.3.1 Computation of SOC stocks

Calculation of SOC stocks (kg C m^{-2} to specified depth) requires data on soil carbon content, bulk density, proportion of coarse fragments ($> 2 \text{ mm}$) and depth of horizon (Batjes 1996; IPCC 2006). Possible inconsistencies in the measured (primary) data were first assessed using standardized procedures developed for WISE (e.g. Batjes 2002). Only profiles having measured data for soil organic carbon are considered here.

Two strategies may be adopted here for handling missing data for bulk density (BD) and proportion of fragments > 2% (CF): a) exclude all profiles for which such data are lacking, or b) replace the missing data with values estimated using pedotransfer functions.

Out of the mineral soil profiles flagged as being under natural vegetation—considering only samples for the first 50 cm of soil (i.e., some 6060 profiles)—some 63% have no measured data for CF and some 51% have no measured data for BD. Some 44% of the profiles under consideration have measured data for both BD and CF (as well as for OC). Thus, if method a) were adopted over half of the profiles would have to be discarded from the analyses. Consequently, approach b) is used here.

Gaps in the measured data for BD and CF were filled using consistent taxotransfer procedures that consider differences in soil type, soil textural class and depth of layer (Batjes *et al.* 2007). These procedures were developed in the context of the GEF co-funded project *Assessment of soil organic carbon changes at national scale* (Milne *et al.* 2007), elaborating on earlier work with FAO and IIASA (Batjes *et al.* 1997) and IFPRI (Batjes 2002).

IPCC Tier 1 level calculations consider SOC stock changes to a reference depth of 30 cm by default. Nonetheless, for more detailed assessments, it can be useful to have estimates for reference SOC stocks to a greater depth. Best-estimates for 0-50 and 0-100 cm, as derived from the current data set, are discussed in Section 3.3.2; full details are given in Appendix 2.

2.3.2 Outlier-rejection scheme

Analyses of SOC stocks, expressed as kg C m⁻² to the specified depth, for the global framework is by functional group. For example, for the "Sandy-Tropical Wet" (SAN-T2) or "Wet-Cool Temperate Moist (WET-C1) cluster. Possible outliers within such clusters were flagged using a robust, statistical outlier-rejection scheme. This procedure tests departure from the median, using $k= 1.5$ (Frigge *et al.* 1989), and subsequently excludes all flagged values from further analysis. Typically, for non-normal distributions, the median is more robust than the mean as well as more resistant to erratic extreme observations (Snedecor and Cochran 1980, p. 136-137).

Descriptive statistics for sample populations remaining after application of the outlier-rejection scheme, for the functional groups under consideration, are discussed in Section 3.

3. RESULTS

3.1 Extent of main IPCC climate-soil zones

As indicated earlier, the IPCC world climate regions map and soil class map describe broad regional patterns (see Figures 3 and 5). For this study, it is important to know which climate-soil clusters are most extensive. The proportion of the various clusters, determined using GIS overlays, provides an indication of the fields that may be filled in the global SOC framework. In practice, however, the latter will be subject to the availability of suitable profile data for the specified IPCC climate-soil clusters.

Table 2. Main combinations of IPCC default climate regions and soil classes for the world and their proportion

IPCC climate zone	IPCC soil class (%)						
	HAC (HAC)	LAC (LAC)	Sandy (SAN)	Spodic (POD)	Volcanic (VOL)	Wetland (WET)	Organic (ORG)
T1– Tropical Montane	0.86	0.84	0.20	-	0.04	0.07	0.01
T2– Tropical Wet	1.70	3.58	0.26	0.05	0.05	0.61	0.22
T3– Tropical Moist	3.45	6.03	0.64	-	0.02	0.67	0.05
T4– Tropical Dry	10.24	0.91	2.40	-	-	0.14	0.01
W1– Warm Temp. Moist	6.44	2.48	0.33	-	0.16	0.23	0.04
W2– Warm Temp. Dry	12.82	0.21	3.02	-	0.02	0.11	0.01
C1– Cool Temp. Moist	7.95	0.03	1.06	0.54	0.21	0.63	0.57
C2– Cool Temperate Dry	5.27	-	0.46	-	0.05	0.14	-
Bx– Boreal (undiff.)	6.28	-	1.10	1.56	0.03	2.07	1.42
Px– Polar (undiff.)	3.39	-	0.58	0.07	0.03	0.60	0.05
<i>Total</i> ^a	58.4	14.08	10.05	1.63	0.50	5.27	1.47

^a Classes are only shown when they cover at least 0.01% of the world's land surface (some $137.8 \times 10^6 \text{ km}^2$); data exclude some $13.4 \times 10^6 \text{ km}^2$ for Antarctica, which is not shown on the IPCC climate map. Total adds up to some 93.5 per cent of the land surface; the remaining 6.5% correspond with miscellaneous units of the FAO Legend (e.g., salt flats, rock outcrops, and not determined). Based on GIS overlay of broad scale IPCC climate zones and IPCC soil class map considering the full map unit composition (see Batjes 2010). Several IPCC soil classes consist of a wide range of different FAO/WRB soil units. See Appendix 1 for details.

3.2 Characterization of soil profiles under natural vegetation

At the time of compiling this report, data for 12159 soil profiles were available in a working copy of WISE. Thereof, 11978 profiles have sufficient data to compute SOC stocks to at least 30 cm, the default soil depth considered in the IPCC₂₀₀₆ Guidelines. Out of the latter, 10045 are geo-referenced. The coordinates were used to allocate each profile to an IPCC climate zone using GIS overlay. Subsequently, these profiles were clustered according to whether they were considered to be under

“cultivation” (CULT) or “natural vegetation” (NATV) at the time of field description/sampling. Based on this filtering procedure (see Section 2.2.4), 5560 profiles were considered to be under natural vegetation. These profiles were used for the actual analyses.

First, profiles were clustered according to IPCC climate zone irrespective of the IPCC soil class. As expected, SOC₃₀ stocks under native vegetation vary greatly within each IPCC climate zone. Coefficients of variation (CV) range from 74% for the Tropical Wet zone (W2) to 127% for the Polar, undifferentiated (Px) zone. The overall pattern is that average SOC₃₀ stocks are highest in cold, relatively moist areas decreasing in the sequence Bx > Px ~ C1. Further, in tropical regions, average SOC₃₀ stocks decrease as the climate becomes drier. These broad patterns are consistent with those reported by other researchers (Post *et al.* 1985).

Table 3. Descriptive statistics for SOC₃₀ stocks under native vegetation by IPCC climate zone

IPCC climate zone	SOC ₃₀ (Tonnes C ha ⁻¹)							
	n ^a	Avg	SD	CV(%)	MED	MAD	Min	Max
T1- Tropical Montane	246	61	52	86	47	20	5	483
T2- Tropical Wet	525	61	45	74	51	20	5	422
T3- Tropical Moist	738	50	54	110	36	15	3	909
T4 -Tropical Dry	948	22	23	102	16	8	1	280
W1- Warm Temp. Moist	839	76	58	77	61	25	3	646
W2- Warm Temp. Dry	1275	26	30	118	17	9	1	511
C1- Cool Temp. Moist	658	116	119	102	84	40	2	1108
C2 -Cool Temp. Dry	201	49	53	110	38	18	1	611
Bx- Boreal, undiff.	68	149	159	106	75	43	14	551
Px- Polar, undiff.	62	118	150	127	50	45	1	582

^a Abbreviations: sample size (n), average (AVG), standard deviation (SD), coefficient of variation (CV), median (MED), median absolute deviation from the median (MAD), minimum (MIN) and maximum (MAX). For definition of IPCC climate zones see Figure 2.

Subsequently, profiles under native vegetation were clustered according to their IPCC soil class, irrespective of climate zone (Table 4). Again, SOC₃₀ stocks vary greatly within each class with coefficients of variation ranging from 54% for the organic class (ORG) to 160% for the sandy (SAN) class. The latter is to be expected here since the IPCC₂₀₀₆ scheme defines SAN as being comprised of “all soils (regardless of taxonomic classification) having > 70% sand and < 8% clay (includes Arenosols)”. Descriptive statistics for the underpinning profiles, grouped by FAO major soil group, are presented in Appendix 1.

Overall, minimum SOC₃₀ values reported in Table 4 correspond with profiles from warm arid regions while maximum values are mainly for medium and fine textured profiles from humid and cold/temperate regions. The largest average values for SOC₃₀ are observed for poorly drained,

organic soils (ORG) followed by the POD, VOL and WET class. Quite similarly, for mineral soils in the USA, Ogle et al. (2003) reported the highest SOC stocks for volcanic soils, followed by Podzols (Spodosols) and wetland soils. HAC and LAC soils have intermediate SOC₃₀ stocks, with mean values reported for HAC soils being similar to those for LAC soils.

Table 4. Descriptive statistics for SOC₃₀ stocks under native vegetation by IPCC soil class

IPCC soil class	SOC ₃₀ (tonnes C ha ⁻¹)							
	n ^a	Avg	SD	CV(%)	MED	MAD	Min	Max
HAC – High activity class	3021	49	47	97	36	20	1	871
LAC – Low activity class	1098	46	32	70	38	17	3	250
POD – Spodic class	69	130	80	62	108	38	24	389
SAN – Sandy class	882	28	46	160	13	7	1	451
VOL – Volcanic class	118	127	84	66	112	44	10	646
WET – Wetland class	271	84	76	89	62	35	1	559
ORG – Organic class	101	353	191	54	314	123	88	1108

^a Abbreviations: sample size (n), average (AVG), standard deviation (SD), coefficient of variation (CV), median (MED), median absolute deviation from the median (MAD), minimum (MIN) and maximum (MAX). For definition of IPCC soil classes see Figure 4.

3.3 SOC stocks by IPCC climate zone and soil class

3.3.1 Estimates for 0-30cm

The simple assessment option of the CBP system is comparable, though not analogous, to the IPCC Tier 1 level approach (Milne *et al.* 2010a, b). It is *good practice* in the IPCC₂₀₀₆ Guidelines to consider mean SOC₃₀ stocks under native vegetation, per climate-soil class, when estimating changes in SOC₃₀ subsequent to defined changes in land use and management. However, it should be noted here that for skewed distributions the median is considered more robust than the mean since it is more resistant to erratic observations (Snedecor and Cochran 1980).

Descriptive statistics for SOC stocks under native vegetation presented in Appendix 2 include the sample size (n) before (n₀) and after outlier-rejection (n₁), the average (AVG), standard deviation (SD), coefficient of variation (CV), minimum (MIN) and maximum (MAX), as well as the median (MED) and median absolute deviation from the median (MAD).

Results for the IPCC reference soil depth of 30 cm are summarized in Table 7¹.

Application of the outlier-rejection scheme led to the rejection of 0% up to 11% of the original cases, the highest rejection percentage being reported for cluster "SAN_W1" (n0= 44, n1=39).

Some combinations of IPCC climate region and soil class do not occur extensively worldwide (see Table 3); hence, there will be some "voids" in Table 7. Alternatively, there may still be few soil profiles for some clusters. The size of the sample population (n1) should be considered when appraising results; estimates for SOC stocks are prone to be less reliable when the population size is small. Table 7 only summarizes results for climate-soil clusters for which n1 > 5. From a statistical perspective, however, ideally the sample population for each cluster should be at least 30 (Snedecor and Cochran 1980).

Coefficients of variation reported here for mineral soils range from 38% for the "VOL-C1" class to 106% for "SAN-PX," with an average of 59% (Appendix 2, see under scenario "SolCli2"). By comparison, the IPCC₂₀₀₆ Guidelines *assume* a relative error—defined as 2xSD/AVG—of ±90% for all climate-soil types, which corresponds to an average, assumed, CV of 45%. Overall, the variation in SOC₃₀ stocks reported by climate-soil cluster in this study is greater than that assumed for the IPCC₂₀₀₆ Guidelines.

Estimates for SOC_{30_IPCC} are larger than those for SOC_{30_CBP} for 75% of the classes (Table 5). The relative difference (D_{rel} in %) between the various IPCC₂₀₀₆ (SOC_{30_IPCC}) and current (SOC_{30_CBP}) estimates can be assessed using:

$$D_{rel} = 100 * \text{ROUND}((\text{SOC}_{30_IPCC} - \text{SOC}_{30_CBP}) / (\text{SOC}_{30_CBP}), 0) \quad [1]$$

As there is no absolute reference here, the SOC_{30_CBP} was taken as the present, best estimate for SOC₃₀ being based on the largest and probably most representative selection of soil profiles available today. Further, when calculating D_{rel} only "measured" SOC₃₀ values reported by IPCC₂₀₀₆ were considered (i.e., comparison excludes values flagged as "*" and "#" in Table 7, see footnote c).

D_{rel} ranges from -42% for the "W1-VOL" class to +244% for the "T4-SAN" class (Table 5). $D_{rel} \leq 45\%$ for some 75% of the cases. As such, the differences reported here need not be statistically significant. This

¹ Tables listing SOC₃₀ stocks clustered by IPCC climate zone, soil class, and other criteria are listed at the end of this Section in view of their "Landscape" format.

significance, however, cannot be assessed here as the IPCC₂₀₀₆ Guidelines do not provide any information on sample size and SD.

Table 5. Relative difference in SOC₃₀ estimates reported in the IPCC₂₀₀₆ Guidelines and the present study

IPCC climate- soil class	SOC ₃₀		Relative difference (D _{rel} , %)
	IPCC (tonnes C ha ⁻¹)	CBP (tonnes C ha ⁻¹)	
W1-VOL	80	138	-42
W1-WET	88	135	-35
C1-WET	87	128	-32
T2-HAC	44	60	-27
C1-POD	115	128	-10
W1-SAN	34	36	-6
C1-VOL	130	136	-4
Bx-HAC	68	63	8
W1-LAC	63	57	11
C1-LAC	85	76	12
W2-LAC	24	21	14
T2-LAC	60	52	15
C2-HAC	50	43	16
C1-HAC	95	81	17
W2-WET	88	74	19
T3-LAC	47	38	24
Bx-WET	146	116	26
W1-HAC	88	64	38
C1-SAN	71	51	39
T2-SAN	66	46	43
T3-SAN	39	27	44
W2-HAC	38	24	58
T3-HAC	65	40	62
T4-HAC	38	21	81
T4-LAC	35	19	84
W2-SAN	19	10	90
C2-SAN	34	13	162
T4-SAN	31	9	244

^a Excludes all climate-soil classes for which expert-estimates are presented in the IPCC₂₀₀₆ Guidelines (see footnotes to Table 7).

The IPCC₂₀₀₆ Guidelines and current study draw heavily on legacy data and for both studies, the soil profiles were selected based on purposive sampling. Default estimates presented in the IPCC₂₀₀₆ Guidelines are based on analyses of soil databases described by Jobaggy and Jackson (2000) and Bernoux et al. (2002). The former largely considered data extracted from two large national profiles databases (NRCS-USDA, Canada) as well as an earlier version of WISE (Batjes 1995b). Following data screening and clustering, Jobaggy and Jackson (2000) identified 1271 profiles as being under agricultural use and 802 under natural vegetation. Alternatively, for Brazil, Bernoux et al. (2002) identified 2694 profiles as being under natural vegetation out of 3969 profiles. Based on this information, it would appear

that SOC_{Ref} stocks presented in the IPCC₂₀₀₆ Guidelines were based on analyses of some 3500 profiles under natural vegetation, with a strong geographical bias (77%) with respect to profiles from Brazil.

The lowest SOC₃₀ stocks are observed for the SAN class, which is consistent with earlier findings (IPCC 2006; Maia *et al.* 2010; Ogle *et al.* 2003). Values for the POD class, comprising WRB-Podzols having a texture *finer* than "<8% clay and >70% sand", for the Cool Temperate Moist (C1; 115 tonnes C ha⁻¹) and Warm Temperate Moist (W1; 143 tonnes C ha⁻¹) climates agree well with global average values for Podzols of 175 tonnes C ha⁻¹ to 50 cm depth presented by Kimble *et al.* (1990), resp. 136 tonnes C ha⁻¹ to 30 cm reported by Batjes (1996). Inherently, worldwide, Podzols can show a wide range in properties and hence SOC stocks (Buurman *et al.* 2007; Mokma and Buurman 1982; Olsson *et al.* 2009; Thompson *et al.* 1996); they can comprise shallow members in Arctic regions (Blume *et al.* 1996), poorly drained members (Thompson *et al.* 1996), as well as deep members in the Tropics (Schwartz 1988). The overall trend of average SOC₃₀ stocks for HAC soils being somewhat larger than those for LAC soils, irrespective of climate region, is consistent with earlier results (Batjes 1996; Kimble *et al.* 1990; Sombroek *et al.* 1993).

For the south-western Amazon in Brazil, Maia *et al.* (2010, p. 2781) collected SOC₃₀ data by ecoregion for a Tier 2 level inventory. On the basis thereof, the "relative error" (e.g., 2xSD/AVG) for reference SOC₃₀ stocks was calculated here. Values ranged from ±98% for wetland soils from the Araguaia depression to over ±400% for Oxisols from northern Rondonia¹; the underlying study considered some 3484 profiles under native vegetation. Earlier, Tornquist *et al.* (2009) recommended validation of IPCC₂₀₀₆ reference SOC stocks by comparison with results from field measurements, before their widespread adoption in a given project area. The current study supports that recommendation.

The large variation in SOC₃₀ stocks per IPCC climate-soil class reported here reflects that other, often local, factors are also important (Batjes 1996; Eswaran *et al.* 1993; Jobbagy and Jackson 2000; Sombroek *et al.* 1993; Spain *et al.* 1983). These may include small-scale (i.e., local) differences in microclimate, topographic position, parent material, soil texture, soil drainage, soil nutrient status, salinity/sodicity or Al-toxicity, as well as vegetation type. The broad grouping of SOC₃₀ data into large, aggregated units that underlies the IPCC Tier 1 level approach may thus mask meaningful variation at regional (*sensu* sub-national) and project level. For example, Cerri *et al.* (2000) reported regional differences in SOC content for three geographic clusters of Latossolos Vermelho Amarelo (i.e., LAC class) under natural vegetation from the Brazilian Amazon; they were

¹ The analyses only considered ecoregions characterized by ≥ 10 profiles.

associated with regional differences in length of dry season and forest cover density. To some extent, this aspect is also apparent from more detailed data presented in Appendix 2. As indicated by Ravindranath and Ostwald (2008), developing a database on carbon stocks and stock change factors for various land-use categories (e.g., forest, cropland and grassland) and subclasses based on agroclimatic conditions, soil types and land use management systems at subnational level can reduce such uncertainty (see also GOF-C-GOLD 2009; Maia *et al.* 2010; Ogle *et al.* 2003; Ogle *et al.* 2004; Tornquist *et al.* 2009).

3.3.2 Estimates for 0-50 and 0-100 cm

Although not needed for the simple assessment option of the CBP-system, which assumes that changes in SOC occur within the first 0-30 cm in accordance with IPCC conventions, similar analyses have been performed for reference SOC stocks to 0-50 and 0-100 cm depth (see Appendix 2). These values are provided here for possible future reference purposes for Tier 2 level approaches that desire to consider SOC stock changes to a depth greater than 30 cm.

For SOC₅₀, the CV ranges from 36% for "WET_C1" to 105% for the "VOL_W2" class with an average of 56%. Similarly, for SOC₁₀₀, CVs range 33% for "WET_C1" to 110% for "VOL_W2" with an average of 55% (see Appendix 2 under scenario "SolCli," for cases "SOC2" and "SOC3"). Typically, the number of profiles available to compute SOC stocks will decrease with depth. Historically, in many countries, the SOC content has only been measured in the upper 10-30 cm of the profile (e.g., Biggs and Grundy 2010; Hiederer 2009).

IPCC₂₀₀₆ Tier 1 level assessments explicitly consider changes in SOC stocks in the first 30 cm of soil. Therefore, it is useful to have an insight with respect to the proportion of the total SOC stock, under natural vegetation, that is held in the upper 100 cm of soil. Using the current data set, it is possible to present ratios for SOC₃₀ over SOC₅₀ as well as SOC₃₀ over SOC₁₀₀. The former ratios range from 63% to 88%, while values for SOC₃₀/SOC₁₀₀ range from 38% to 70%. These data indicate that the potential impact of a change in land use and management on SOC₃₀ stocks, *vis a vis* SOC stocks to say 100 cm depth, may vary markedly according to IPCC climate zone and soil class, depending on the actual depth, type and intensity of soil disturbance (e.g., deforestation, conversion of no-till to conventional tillage systems, or introduction of deep-rooting grasses). Hence, the desirability of considering SOC stock changes to a depth deeper than 30 cm in more detailed assessments (e.g., Batlle-Bayer *et al.* 2009; Lal 1997; Manley *et al.* 2005; Needelman *et al.* 1999). Also, for more detailed comparisons, SOC changes should be determined using the

equivalent soil mass method (Ellert and Bettany 1995; Lee *et al.* 2009b), that is account for possible changes in soil compaction (bulk density) following a change in land use and management practices.

Table 6. Relative distribution of SOC stocks with depth by IPCC soil-climate class

IPCC soil-climate class	SOC ₃₀ to SOC ₅₀ ratio (%)				SOC ₃₀ to SOC ₁₀₀ ratio (%)			
	n ¹	Avg	SD	CV	n	Avg	SD	CV
HAC_Bx	19	74	11	15	19	56	17	30
HAC_C1	272	79	9	12	272	63	15	24
HAC_C2	146	71	9	12	146	49	13	26
HAC_Px	12	77	14	17	12	53	17	32
HAC_T1	87	70	8	12	87	46	12	26
HAC_T2	103	76	8	11	103	55	12	22
HAC_T3	181	74	78	10	181	53	11	21
HAC_T4	356	65	8	13	356	40	11	28
HAC_W1	375	74	8	11	375	55	12	22
HAC_W2	598	69	9	13	598	45	12	27
LAC_T1	79	72	6	9	79	49	9	18
LAC_T2	253	74	6	9	253	53	10	19
LAC_T3	316	74	7	9	316	52	10	19
LAC_T4	108	69	8	11	108	44	10	23
LAC_W1	174	76	8	10	174	57	12	21
LAC_W2	37	69	9	13	37	45	12	27
ORG_Bx	12	63	10	16	12	40	15	37
ORG_C1	42	66	8	12	42	39	11	28
ORG_T2	10	67	10	15	10	45	13	29
ORG_W1	7	71	9	13	7	46	26	57
POD_C1	22	75	12	16	22	58	20	35
SAN_C1	114	77	12	15	114	61	16	26
SAN_C2	8	66	11	17	8	42	13	31
SAN_Px	6	77	12	15	6	61	21	34
SAN_T1	10	75	5	7	10	55	10	18
SAN_T2	36	79	12	15	36	54	19	35
SAN_T3	74	733	9	13	74	49	12	24
SAN_T4	136	68	10	14	136	43	12	28
SAN_W1	34	74	9	12	34	52	16	31
SAN_W2	324	68	9	13	324	42	11	26
VOL_C1	17	73	7	10	17	59	10	17
VOL_T1	9	69	12	18	9	47	11	23
VOL_T2	14	73	9	13	14	50	13	26
VOL_W1	37	69	7	10	37	46	11	24
VOL_W2	9	70	6	8	9	49	7	14

¹ Data are for profiles under natural vegetation, deeper than 100 cm, for which more than 5 samples are available. Coding conventions for IPCC climate-soil classes may be found in Table 8.

IPCC soil-climate class	SOC ₃₀ to SOC ₅₀ ratio (%)				SOC ₃₀ to SOC ₁₀₀ ratio (%)			
WET_C1	39	82	9	11	39	70	13	19
WET_T1	9	73	10	14	9	53	16	30
WET_T2	27	75	11	15	27	55	15	27
WET_T3	46	77	87	10	46	55	11	20
WET_T4	28	68	9	13	28	44	12	27
WET_W1	25	72	9	12	25	52	13	25
WET_W2	46	69	9	13	46	48	15	31

3.4 SOC stocks by climate zone, soil class and vegetation type

The current data set has also been analysed according to broad types of natural vegetation, clustered, and subdivided according to criteria described in Section 2.2.4. Again, data for SOC₃₀ stocks for individual profiles within each climate-soil-natural vegetation cluster were submitted to the statistical outlier-rejection scheme. Results are summarized in Table 8, while full details are provided in Appendix 2 under the heading scenario "SoLiVEG1."

For many profiles considered here, there is no detailed information about the type of natural vegetation. For example, the "HAC_T1" class is represented in Table 7 by 114 profiles under *undifferentiated* natural vegetation. However, only 42 of these profiles can be allocated to a specific natural vegetation class (i.e., A-Forest, B-Shrublands or C-Herbaceous; see under "HAC_T1" in Table 8) here. This is due to the generally scanty information on natural vegetation presented in the various source materials that underpin the WISE data set in combination with the requirement that there should be at least 5 observations per class.

Again, the SOC₃₀ stocks reported for each cluster vary greatly, with coefficients of variation ranging from 21% for "LAC_W1_C" up to 95% for "WET_T1_C," with an average CV of 55%. Overall, no consistent patterns can be distilled from Table 8 in terms of SOC₃₀ stocks being consistently higher under Forest, for example. This may be a reflection, in part, of the uncertainties associated with assigning a vegetation type to a given soil profile (see Section 2.2.4). Some vegetation types will not occur in a given IPCC climate-soil zone. Further, it may be a reflection of the coarse nature of the default IPCC climate and soil classes.

3.5 SOC stocks by climate zone, soil class, and textural grouping

The current data set has also been analysed by IPCC climate-soil class under natural vegetation (undifferentiated), subdivided according to soil

textural class. For this purpose, three broad textural classes are considered here. Class limits are based on criteria used in SOTER (van Engelen and Dijkshoorn 2010) and the Georeferenced Soil Database for Europe (ESB 2001): 1= Coarse; 2= Medium and Medium Fine; 3= Fine and very fine (see Figure 9).

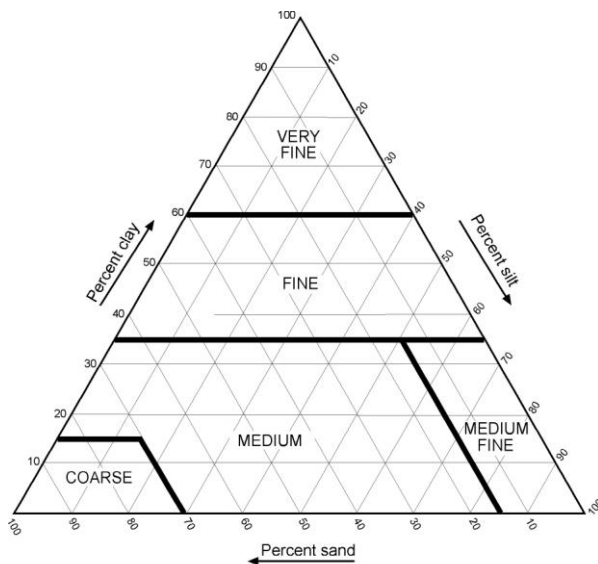


Figure 9. Default soil textural classes

The SOC₃₀ stock data for each climate-soil-textural class were submitted to the statistical outlier-rejection scheme. Results are summarized in Table 9; full details are provided in Appendix 2 under the heading "SoCliTXT."

Again, SOC₃₀ stocks for mineral soils reported for each cluster vary greatly. The coefficients of variation range from 33% for medium textured, volcanic soils from the wet tropics (VOL_T2_2) to 136% for medium textured, volcanic soils from the moist, warm temperate region (VOL_W2_2), with an average CV of 53%. For a given IPCC climate and soil class, mean SOC₃₀ stocks decrease in the order: Fine textured > Medium Textured > Coarse textured, reflecting the protective influence of texture (and mineralogy) on soil organic matter in freely drained, mineral soils. Alternatively, for the wetland class (WET), this pattern is not always observed in Table 9. Possibly, moisture retention is of lesser importance for plant production and SOC formation for poorly drained soils showing aquic conditions.

Table 7. SOC₃₀ stocks for profiles under native vegetation clustered by default IPCC mineral soil types and climate zones (tonnes C ha⁻¹ to 30 cm) ^{a b}

IPCC 2006 Climate zone	Descr. statistics	IPCC soil class																	
		HAC soils (HAC)			LAC soils (LAC)			Sandy soils (SAN)			Spodic soils (POD)		Volcanic (VOL)			Wetland soils (WET)			
T1 – Tropical Montane	n, Mean, SD	114	51	28	84	44	22	11	52	30	-	10	96	48	12	82	73		
	n, Median, MAD	114	46	20	84	36	12	11	47	14	-	10	74	16	12	58	36		
	IPCC2006 default ^e	88* ^c			63*			34*			na		80*			86			
T2 – Tropical Wet	n, Mean, SD	137	60	30	271	52	25	43	46	31		14	77	40	33	49	27		
	n, Median, MAD	137	53	19	271	46	16	43	41	22		14	66	22	33	49	16		
	IPCC2006 default ^e	44			60			66			na		130* ^c			86			
T3 – Tropical Moist	n, Mean, SD	226	40	22	326	38	19	76	27	15	-				55	68	45		
	n, Median, MAD	226	35	14	326	33	12	76	23	11	-				55	53	24		
	IPCC2006 default ^e	65			47			39			na		70* ^f			86			
T4 – Tropical Dry	n, Mean, SD	554	21	13	135	19	11	164	9	5	-				32	22	11		
	n, Median, MAD	554	17	7	135	17	7	164	8	3	-				32	20	7		
	IPCC2006 default ^e	38			35			31			na		50* ^f			86			
W1 – Warm Temp. Moist	n, Mean, SD	489	64	33	183	55	29	39	36	26	9	143	65	42	138	56	28	135	101
	n, Median, MAD	489	59	21	183	50	19	39	29	11	9	142	54	42	143	28	28	94	49
	IPCC2006 default ^e	88			63			34			na		80			88			
W2 – Warm Temp. Dry	n, Mean, SD	781	24	16	41	19	10	338	10	5	-	10	84	88	49	74	45		
	n, Median, MAD	781	19	9	41	18	7	338	9	3	-	10	33	23	49	66	34		
	IPCC2006 default ^e	38			24			19			na		70* ^f			88			
C1– Cool Temp. Moist	n, Mean, SD	334	81	40	6	76	48	126	51	39	45	128	61	28	136	52	42	128	55
	n, Median, MAD	334	74	28	6	66	18	126	42	22	45	115	41	28	137	28	42	113	36
	IPCC2006 default ^e	95			85			71			115			130		87			
C2– Cool Temperate Dry	n, Mean, SD	177	43	24	-	10	13	7	-	-	-	-	-	-	-	-	-		
	n, Median, MAD	177	38	17	-	10	12	3	-	-	-	-	-	-	-	-	-		
	IPCC2006 default ^e	50			33			34			Na		20* ^f			87			

IPCC 2006 Climate zone	Descr. statistics	IPCC soil class											
		HAC soils (HAC)			LAC soils (LAC)		Sandy soils (SAN)			Spodic soils (POD)	Volcanic (VOL)	Wetland soils (WET)	
Bx – Boreal (undiff.)^d	n, Mean, SD	35	63	34	-	-	-	-	-	-	6	116	94
	n, Median, MAD	35	58	22	-	-	-	-	-	-	6	110	76
	IPCC2006 default ^e		68		na		10 [#]		117		20 [#]		146
Px – Polar (undiff.)^d	n, Mean, SD	24	59	61	-	18	27	29	-	-	-	-	-
	n, Median, MAD	24	30	27	-	18	14	12	-	-	-	-	-
	IPCC2006 default ^e		-		-	-			-	-	-		-

^a Climate classes are according to IPCC (2006). Default soil classes are inferred from the FAO-1990/WRB-2006 classification in accordance with IPCC₂₀₀₆ Guidelines. See Section 2.1.1 and 2.1.2 for details.

^b Out of the 12159 profiles in WISE, 11978 have sufficient measured data on SOC content (g C kg⁻¹) to compute SOC stocks to at least 30 cm depth. Thereof, 10045 profiles are geo-referenced, information that was used to allocate the IPCC climate class using GIS overlays. These profiles were subsequently clustered according to whether they were considered to be under cultivation or natural vegetation at the time of field description/sampling; for criteria see text (Section 2.2.4). The IPCC₂₀₀₆ framework considers mineral soil layers; special rules are applied with respect to carbon stocks held in litter and dead wood (IPCC 2006, p. 2.27). Consequently, profiles for mineral soils with a pronounced surface litter layer –defined here as > 2 cm thick– were eliminated from the analyses. According to the screening process, 5560 profiles in WISE are under, relatively, undisturbed natural vegetation. Gaps in data for oven dry bulk density and proportion of fragments > 2 mm were filled using consistent taxotransfer procedures (see Batjes *et al.* 2007). Results are only shown for categories with n > 5 observations per functional group, after rejection of possible outliers; departure from the median was tested using $k=1.5$ (see Frigge *et al.* 1989). Both mean and standard deviation (SD), as well as median and the median absolute deviation from the median (MAD) are presented; the median is considered more robust than the mean being more resistant to erratic extreme observations (Snedecor and Cochran 1980). The IPCC (2006) Tier 1 approach, however, considers means in its SOC stock change inventories. Overall, confidence in results for mean SOC₃₀ stocks presented here should increase with sample size (n), tentatively as follows: Lowest (5 < n ≤ 15), Moderate (15 < n ≤ 30), Highest (30 < n).

^c IPCC₂₀₀₆ Guidelines default values (i.e., mean). For Tropical Montane (flagged here as *), these Guidelines assume SOC stocks similar to those reported for Warm temperate, moist region which has similar mean annual temperature and precipitation. If no data are available for the IPCC₂₀₀₆ estimates, defaults (flagged here as #) from the IPCC₁₉₉₆ Guidelines were retained (see IPCC 2006, p. 2.31).

A relative estimated error of ±90% (expressed as 2 x standard deviation as percentage of the mean) has been assumed for all climate-soil types in the IPCC₂₀₀₆ Guidelines. Samples size (n) and SD are not given in said Guidelines; this precludes analyses of statistical differences between IPCC₂₀₀₆ estimates for SOC₃₀ and present results.

^d The IPCC₂₀₀₆ Guidelines do not differentiate between the Boreal Dry and Boreal Moist zone, respectively the Polar Dry and Polar Moist zone, in the reference SOC framework (see IPCC 2006, p. 2.31). Present results for SOC₃₀ stocks are computed for the undifferentiated (Undiff.) Bx and Px class.

^e NA denotes “not applicable” in the IPCC₂₀₀₆ Guidelines because these soil categories do not normally occur in some climate zones; Table 2 provides an overview of main combinations of IPCC climate regions and soil types based on GIS overlay of the IPCC climate and soil classes map. In view of the inherent coarseness of the IPCC Climate Zones map, combined with uncertainties associated with the geographic coordinates of some profiles, some “unrealistic” IPCC climate classes may have been allocated to some profiles during the GIS overlay. In principle, however, any possible “extreme erratic observations” should have been excluded from further (final) analyses after application of the statistical outlier-rejection scheme (see b). Conversely, in some instances, such as for Hawaii, Portugal and Madeira, the IPCC Climate Zones Map does not specify any climate class; profiles located in such areas are then coded as “No Data” (nd) during the GIS overlay – the corresponding IPCC climate codes were manually assigned here to fill gaps in the climate zone data.

Table 8. Soil carbon stocks under native vegetation clustered by IPCC climate zone, mineral soil type and broad vegetation class (tonnes C ha⁻¹ to 30 cm) ^a

IPCC 2006 Climate zone	Natural vegetation	Descriptive statistics	HAC soils (HAC)			LAC soils (LAC)			Sandy soils (SAN)			Spodic soils (POD)		Volcanic (VOL)			Wetland soils (WET)		
T1 – Tropical Montane	Forest	n, Mean, SD	23	55	23	29	49	25	-	-	-	-	-	-	-	-	-	-	
		n, Median, MAD	23	57	19	29	44	17	-	-	-	-	-	-	-	-	-	-	
	Shrubland	n, Mean, SD	6	37	29	6	42	21	-	-	-	-	-	-	-	-	-	-	
		n, Median, MAD	6	31	13	6	44	19	-	-	-	-	-	-	-	-	-	-	
	Herbaceous	n, Mean, SD	13	57	29	-	-	-	-	-	-	-	-	-	6	98	93	-	
		n, Median, MAD	13	52	23	-	-	-	-	-	-	-	-	-	6	78	57	-	
T2 – Tropical Wet	Forest	n, Mean, SD	65	55	25	166	51	24	16	50	23	-	8	67	45	13	55	23	
		n, Median, MAD	65	50	15	166	46	15	16	53	13	-	8	57	15	13	50	13	
	Shrubland	n, Mean, SD	6	60	27	6	70	38	-	-	-	-	-	-	-	-	-	-	
		n, Median, MAD	6	62	21	6	66	35	-	-	-	-	-	-	-	-	-	-	
	Herbaceous	n, Mean, SD	9	50	32	21	77	32	-	-	-	-	-	-	-	-	-	-	
		n, Median, MAD	9	37	22	21	73	26	-	-	-	-	-	-	-	-	-	-	
T3 – Tropical Moist	Forest	n, Mean, SD	60	42	24	111	39	17	22	33	17	-	-	-	14	56	41	-	
		n, Median, MAD	60	39	15	111	33	10	22	33	12	-	-	-	14	41	15	-	
	Shrubland	n, Mean, SD	9	46	28	17	40	19	-	-	-	-	-	-	-	-	-	-	
		n, Median, MAD	9	37	21	17	36	14	-	-	-	-	-	-	-	-	-	-	
	Herbaceous	n, Mean, SD	22	39	19	43	36	22	9	38	26	-	-	-	9	87	78	-	
		n, Median, MAD	22	30	6	43	30	11	9	24	13	-	-	-	9	59	29	-	
T4 – Tropical Dry	Forest	n, Mean, SD	33	38	24	9	23	12	-	-	-	-	-	-	-	-	-	-	
		n, Median, MAD	33	31	13	9	20	6	-	-	-	-	-	-	-	-	-	-	
	Shrubland	n, Mean, SD	44	25	16	6	33	36	8	11	6	-	-	-	-	-	-	-	
		n, Median, MAD	44	27	11	6	22	10	8	12	3	-	-	-	-	-	-	-	
	Herbaceous	n, Mean, SD	39	27	15	-	-	-	9	9	6	-	-	-	-	-	-	-	
		n, Median, MAD	39	23	7	-	-	-	9	9	4	-	-	-	-	-	-	-	

^a Forest (A), Shrubland (B) and Herbaceous (C) classes were derived from five original UNESCO (1973) classes, see Section 2.2.4 for details. Other codes and assumptions are explained in the footnotes to Table 7.

IPCC 2006 Climate zone	Natural vegetation	Descriptive statistics	HAC soils (HAC)			LAC soils (LAC)			Sandy soils (SAN)			Spodic soils (POD)			Volcanic (VOL)			Wetland soils (WET)		
W1 – Warm Temp Moist	Forest	n, Mean, SD	131	63	34	86	55	35	16	43	28	-	-	-	13	140	41	-	-	-
		n, Median, MAD	131	59	22	86	44	18	16	31	13	-	-	-	13	154	14	-	-	-
	Shrubland	n, Mean, SD	17	73	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		n, Median, MAD	17	65	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Herbaceous	n, Mean, SD	54	79	45	17	81	17	-	-	-	-	-	-	9	121	32	-	-	-
		n, Median, MAD	54	69	30	17	82	11	-	-	-	-	-	-	9	138	28	-	-	-
W2 – Warm Temp. Dry	Forest	n, Mean, SD	75	32	21	13	32	16	32	13	5	-	-	-	-	-	-	-	-	-
		n, Median, MAD	75	26	13	13	33	11	32	13	4	-	-	-	-	-	-	-	-	-
	Shrubland	n, Mean, SD	306	17	10	20	14	5	185	9	4	-	-	-	-	-	-	18	70	47
		n, Median, MAD	306	15	8	20	13	4	185	9	3	-	-	-	-	-	-	18	53	28
	Herbaceous	n, Mean, SD	101	25	13	-	-	-	52	11	4	-	-	-	-	-	-	12	89	36
		n, Median, MAD	101	21	8	-	-	-	52	10	3	-	-	-	-	-	-	12	88	26
C1 – Cool Temp. Moist	Forest	n, Mean, SD	150	8.9	46	-	-	-	54	65	57	28	125	66	19	135	52	8	160	45
		n, Median, MAD	150	78	33	-	-	-	54	43	21	28	111	42	19	139	30	8	148	27
	Shrubland	n, Mean, SD	9	63	35	-	-	-	9	37	33	-	-	-	-	-	-	-	-	-
		n, Median, MAD	9	54	31	-	-	-	9	28	22	-	-	-	-	-	-	-	-	-
	Herbaceous	n, Mean, SD	25	78	38	-	-	-	8	82	75	-	-	-	-	-	-	7	172	72
		n, Median, MAD	25	82	30	-	-	-	8	58	33	-	-	-	-	-	-	7	169	64
C2 – Cool Temp. Dry	Forest	n, Mean, SD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		n, Median, MAD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Shrubland	n, Mean, SD	31	40	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		n, Median, MAD	31	31	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Herbaceous	n, Mean, SD	34	49	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		n, Median, MAD	34	48	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bx – Boreal (undiff.)^d	Forest	n, Mean, SD	15	58	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		n, Median, MAD	15	57	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Shrubland	n, Mean, SD	9	61	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		n, Median, MAD	9	58	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Herbaceous	n, Mean, SD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		n, Median, MAD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Px – Polar (undiff.)	Forest	n, Mean, SD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

IPCC 2006 Climate zone	Natural vegetation	Descriptive statistics	HAC soils (HAC)			LAC soils (LAC)			Sandy soils (SAN)			Spodic soils (POD)			Volcanic (VOL)			Wetland soils (WET)		
	Shrubland	n, Median, MAD n, Mean, SD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Herbaceous	n, Median, MAD n, Mean, SD n, Median, MAD	6	40	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 9. Soil carbon stocks under native vegetation clustered by IPCC climate zone, mineral soil type and soil textural class (tonnes C ha⁻¹ to 30 cm)^a

IPCC 2006 Climate zone	Natural vegetation	Descriptive Statistics	HAC soils (HAC)			LAC soils (LAC)			Sandy soils (SAN)			Spodic soils (POD)			Volcanic (VOL)			Wetland soils (WET)		
T1 – Tropical Montane	Coarse	n, Mean, SD	6	35	21	-	-	-	10	47	27	-	-	-	-	-	-	-	-	-
		n, Median, MAD	6	27	10	-	-	-	10	46	14	-	-	-	-	-	-	-	-	-
	Medium	n, Mean, SD	48	46	26	28	30	10	-	-	-	-	-	-	9	10	48	6	91	58
		n, Median, MAD	48	40	18	28	30	6	-	-	-	-	-	-	9	76	17	6	99	49
	Fine	n, Mean, SD	58	54	26	51	54	26	-	-	-	-	-	-	-	-	-	-	-	-
		n, Median, MAD	58	51	20	51	56	20	-	-	-	-	-	-	-	-	-	-	-	-
T2 – Tropical Wet	Coarse	n, Mean, SD	8	46	16	27	33	13	41	45	32	-	-	-	-	-	-	-	-	-
		n, Median, MAD	8	49	15	27	31	7	41	40	23	-	-	-	-	-	-	-	-	-
	Medium	n, Mean, SD	82	55	29	113	46	21	-	-	-	-	-	-	8	90	29	14	35	13
		n, Median, MAD	82	48	18	113	42	14	-	-	-	-	-	-	8	88	19	14	33	10
	Fine	n, Mean, SD	46	68	30	130	61	28	-	-	-	-	-	-	-	-	-	16	58	22
		n, Median, MAD	46	64	18	130	54	19	-	-	-	-	-	-	-	-	-	16	55	15
T3 – Tropical Moist	Coarse	n, Mean, SD	37	26	16	71	23	9	75	26	16	-	-	-	-	-	-	8	24	13
		n, Median, MAD	37	24	10	71	22	5	75	22	11	-	-	-	-	-	-	8	22	9

^a See Figure 7 for default textural classes and text for details. Codes and assumptions are explained in footnotes to Table 7.

IPCC 2006 Climate zone	Natural vegetation	Descriptive Statistics	HAC soils (HAC)			LAC soils (LAC)			Sandy soils (SAN)			Spodic soils (POD)			Volcanic (VOL)			Wetland soils (WET)		
	Medium	n, Mean, SD	120	40	21	126	34	14	-	-	-	-	-	-	16	51	29			
		n, Median, MAD	120	34	12	126	30	8	-	-	-	-	-	-	16	38	9			
	Fine	n, Mean, SD	73	53	31	130	53	21	-	-	-	-	-	-	32	93	54			
		n, Median, MAD	73	44	16	130	50	13	-	-	-	-	-	-	32	82	41			
T4 – Tropical Dry	Coarse	n, Mean, SD	105	12	5	73	14	7	163	9	5	-	-	-	-	-	-			
		n, Median, MAD	105	11	3	73	13	5	163	8	3	-	-	-	-	-	-			
	Medium	n, Mean, SD	287	18	9	45	22	12	-	-	-	-	-	-	16	19	9			
		n, Median, MAD	387	16	5	45	19	7	-	-	-	-	-	-	16	16	6			
Fine	n, Mean, SD	149	31	17	22	44	25	-	-	-	-	-	-	13	34	21				
	n, Median, MAD	149	30	12	22	37	13	-	-	-	-	-	-	13	28	13				
W1 – Warm Temp Moist	Coarse	n, Mean, SD	33	42	20	21	31	15	38	35	24	-	-	-	-	-	-			
		n, Median, MAD	33	35	10	21	27	10	38	28	11	-	-	-	-	-	-			
	Medium	n, Mean, SD	287	57	27	78	48	22	-	-	-	39	141	56	12	111	71			
		n, Median, MAD	287	52	17	78	48	15	-	-	-	39	146	30	12	94	44			
Fine	n, Mean, SD	164	81	40	84	71	35	-	-	-	-	-	-	15	160	118				
	n, Median, MAD	164	76	27	84	61	20	-	-	-	-	-	-	15	114	70				
W2 – Warm Temp. Dry	Coarse	n, Mean, SD	204	13	7	21	15	6	328	10	4	-	-	-	-	-	-			
		n, Median, MAD	204	11	4	21	14	4	328	9	3	-	-	-	-	-	-			
	Medium	n, Mean, SD	359	22	13	17	22	10	-	-	-	7	57	77	6	80	51			
		n, Median, MAD	359	20	9	17	21	6	-	-	-	7	20	9	8	68	30			
Fine	n, Mean, SD	201	36	19	-	-	-	-	-	-	-	-	-	42	74	45				
	n, Median, MAD	201	35	13	-	-	-	-	-	-	-	-	-	42	67	33				
C1 – Cool Temp. Moist	Coarse	n, Mean, SD	21	71	40	-	-	-	120	50	39	7	105	42	-	6	111	55		
		n, Median, MAD	21	54	18	-	-	-	120	39	23	7	102	33	-	6	94	30		
	Medium	n, Mean, SD	251	78	39	-	-	-	6	73	28	38	133	64	26	139	50	26	124	54
		n, Median, MAD	251	71	27	-	-	-	6	73	27	38	118	43	26	137	28	26	106	30
Fine	n, Mean, SD	62	98	41	-	-	-	-	-	-	-	-	-	-	10	149	56			
	n, Median, MAD	62	97	29	-	-	-	-	-	-	-	-	-	-	10	138	30			
C2 – Cool Temp. Dry	Coarse	n, Mean, SD	23	24	15	-	-	-	10	13	7	-	-	-	-	-	-			
		n, Median, MAD	23	20	9	-	-	-	10	12	3	-	-	-	-	-	-			
	Medium	n, Mean, SD	118	42	23	-	-	-	-	-	-	-	-	-	-	-	-			
		n, Median, MAD	118	38	16	-	-	-	-	-	-	-	-	-	-	-	-			

IPCC 2006 Climate zone	Natural vegetation	Descriptive Statistics	HAC soils (HAC)			LAC soils (LAC)	Sandy soils (SAN)			Spodic soils (POD)	Volcanic (VOL)	Wetland soils (WET)		
Bx – Boreal (undiff.)^d	Fine	n, Mean, SD	35	53	22	-	-	-	-	-	-	-	-	-
		n, Median, MAD	35	49	18	-	-	-	-	-	-	-	-	-
	Coarse	n, Mean, SD	-	-	-	-	-	-	-	-	-	-	-	-
		n, Median, MAD	-	-	-	-	-	-	-	-	-	-	-	-
	Medium	n, Mean, SD	31	74	45	-	-	-	-	-	-	6	116	94
		n, Median, MAD	31	70	32	-	-	-	-	-	-	6	110	76
Fine	n, Mean, SD	-	-	-	-	-	-	-	-	-	-	-	-	
	n, Median, MAD	-	-	-	-	-	-	-	-	-	-	-	-	
Px – Polar (undiff.)	Coarse	n, Mean, SD	6	11	13	-	18	27	29	-	-	-	-	-
		n, Median, MAD	6	5	3	-	18	14	12	-	-	-	-	-
	Medium	n, Mean, SD	17	88	74	-	-	-	-	-	-	-	-	-
		n, Median, MAD	17	71	43	-	-	-	-	-	-	-	-	-
	Fine	n, Mean, SD	-	-	-	-	-	-	-	-	-	-	-	-
		n, Median, MAD	-	-	-	-	-	-	-	-	-	-	-	-

4. DISCUSSION

A large uncertainty remains in estimates for reference SOC₃₀ stocks that underpin the IPCC₂₀₀₆ Guidelines inventory approach, for data poor countries. For many climate-soil classes, present estimates of SOC₃₀ differ markedly—though not necessarily in a statistical sense—from earlier estimates presented in the IPCC₂₀₀₆ Guidelines. Clearly, this will have direct implications when calculating changes in soil organic carbon stocks and net greenhouse gas emissions (GHG) subsequent to defined changes in land use and management (Figure 10), according to these Guidelines.



Figure 10. Deforestation of a primary mixed Dipterocarp forest on a Typic Hapludult (Sarawak, Malaysia) influences net GHG emissions (Credit: PH Oldeman; ISRIC - World Soil Information Image Catalogue)

IPCC₂₀₀₆ Tier 1 procedures for calculating changes in SOC stocks for mineral soils subsequent to a change in land use and management consider:

- a) Default values for mean SOC stocks to 30 cm depth under native vegetation (C_{ref}), for defined IPCC climate-soil classes (see Table 7)
- b) Stock change factors (dimensionless) for:
 - land-use system (F_{LU}), for example for conversions from native to cultivated land or from cultivated to non-cultivated conditions
 - management regime (F_{MG}), for effects of different tillage systems

- input of organic matter (F_I), for effects of residue production/use of agricultural systems
- c) The land area (A) of stratum under consideration.

Subsequently, SOC stocks for the new land use management conditions, at time (t), are estimated using (IPCC 2006):

$$\text{SOC}(t) = \text{SOC}_{\text{ref}} \times F_{\text{LU}} \times F_{\text{MG}} \times F_I \times A \quad [2]$$

and, for the whole project-area,

$$\Delta \text{SOC} = \sum_{h=1}^n (\text{SOC}_{t(h)} - \text{SOC}_{t-20(h)}) \quad [3]$$

where each project-area may comprise several strata (e.g., $h = 1$ to n)

Maia et al. (2010) reported that the greatest source of uncertainty, when applying the IPCC₂₀₀₆ Guidelines approach to soil-ecoregions in south-western Brazil, is associated with the reference soil carbon stocks. Alternatively, for Rio Grande do Sul, Brazil, Tornquist et al. (2009), reported that, generally, IPCC₂₀₀₆ default reference SOC stocks compared well with SOC stocks calculated from soil pedons. In this context, it should be observed however that the IPCC₂₀₀₆ default values for reference SOC stocks were largely derived from Brazilian profile data. This could also partly explain why many estimates for SOC₃₀ stocks presented in Table 7 are lower, though not necessarily in a statistical sense, than those presented in the IPCC₂₀₀₆ Guidelines. Overall, the profile data considered here originate from a wider geographic area.

SOC data presented in Table 7 represent globally averaged values, per broad climate-soil region to 30 cm depth, of reference C stocks that may differ from country/region specific values. Bias can be reduced by deriving country/region-specific C reference values using a Tier 2, or Tier 3 level, estimation system (e.g. GOC-GOLD 2009; Maia et al. 2010; Ravindranath and Ostwald 2008). Main considerations with respect to uncertainty assessment, and reducing the current uncertainty, have been discussed by the IPCC (2006) and Ravindranath and Ostwald (2008) and others. Similarly, procedures for reducing uncertainty in estimates of land use and management impacts on soil organic carbon storage, for a range of agricultural systems, have been discussed by various authors (Conant and Paustian 2004; Ogle et al. 2003; Ogle et al. 2004). In this context, it is also necessary to consider the *net* C gains of possible land use interventions, i.e. also take into account the GHG effect of added N-fertilizer, fuel use for tractors and pumping and so on (e.g., Powlson et al. 2011; Schlesinger 2000); these elements are also considered in the CBP system (Milne et al. 2010b).

Gains in accuracy for Tier 1 type assessments may also be achieved by improving the spatial resolution of the IPCC climate zones map. The same

applies to the IPCC soil classes map derived from HWSD (see FAO/IIASA/ISRIC/ISSCAS/JRC 2009), sections of which are still based on the old FAO-UNESCO Soil Map of the World (FAO 1971-1981, 1995). Uncertainties are also associated with the procedures that are used to fill gaps in the measured data for bulk density and proportion of coarse fragments, needed to calculate SOC_{Ref} content (kg C m^{-2} to specified depth), as well as with criteria used for flagging profiles under natural vegetation (see Section 2). The overall uncertainty, however, cannot be quantified as many of the underlying uncertainties are described in qualitative terms only.

Tier 2 methods that consider finer criteria for defining differences in climate zones and soil types, in combination with country/project-specific values for reference stocks and stock change factors, will be necessary to reduce uncertainty at the national and project level. Projects should be encouraged to use the most accurate methods possible, given the resources available and project objectives (e.g., GOFC-GOLD 2009; Milne *et al.* 2010b; Ravindranath and Ostwald 2008).

5. CONCLUSIONS

Uncertainty plays an important role in any net carbon accounting approach; it will determine the possible accuracy of estimates of C stocks and their changes, irrespective of scale. This uncertainty is inherently high in natural and land-use change systems mapped at global and national scale given the large variation in natural and human-driven factors that control carbon stocks and changes in terrestrial ecosystems.

This study provides a summary of SOC₃₀ stocks under natural vegetation, computed using the current selection of soil profile data in WISE (n= 5560). This set is some 1.6 times the size of the one underlying earlier estimates in the IPCC₂₀₀₆ Guidelines. Further, profiles in the ISRIC-WISE database originate from a broader geographic area than has been considered for the IPCC₂₀₀₆ Guidelines. The estimates for SOC₃₀ derived from this study may be used as new default-values for the web-based CBP system, for use in data poor countries.

An advantage *vis à vis* the IPCC₂₀₀₆ Guidelines is that the number of profiles per cluster and the uncertainty in the SOC₃₀ estimates (i.e., n, Avg. and SD) are specified in this study. The relative error¹ reported here per IPCC climate-soil class is often greater than the default of $\pm 90\%$ that has been assumed for all mineral soil classes in the IPCC₂₀₀₆ Guidelines, irrespective of climate. Hence, initial estimates of relative errors in SOC₃₀ stocks may have been too conservative in the IPCC₂₀₀₆ Guidelines. Overall, estimates of average SOC stocks, under native vegetation, to 30 cm presented here are lower than those listed in the 2006 IPCC Guidelines (though not necessarily in the statistical sense). They represent globally averaged values, per broad IPCC climate-soil region, of reference C stocks that may differ from country/region specific values.

Use of finer criteria for defining climate zones and soil types and the substitution of default reference stocks and stock change factors with country/project-specific values, using Tier 2 methods, will be necessary to reduce uncertainty in SOC stock changes.

Projects should be encouraged to use the most accurate methods possible, given the resources available and project objectives.

¹ Relative error estimated as $\pm 2 * SD / AVG$ in accordance with IPCC₂₀₀₆ Guidelines.

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APPENDICES

Appendix 1. Summary of SOC₃₀ data by IPCC soil class, subdivided according to WRB/FAO major soil units (kg C m⁻²)

IPCC soil class	FAO90 ^a major group	n	Avg ^b	SD	Min	Max	CV
HAC	AL	123	5.1	3.8	0.4	21.4	75
	CH	80	8.9	5.5	1.5	26.0	61
	CL	136	2.6	1.8	0.3	12.4	70
	CM	659	6.0	5.2	0.4	54.0	87
	FL	174	5.0	4.8	0.3	28.0	97
	GR	8	10.5	2.5	6.9	15.2	24
	GY	34	1.7	1.2	0.4	5.5	73
	KS	56	4.9	2.2	1.0	10.6	44
	LP	123	6.4	6.8	0.3	40.9	106
	LV	606	3.6	3.4	0.1	28.5	96
	PD	31	7.7	4.8	2.3	24.2	62
	PH	203	7.4	6.6	0.5	87.1	89
	PL	98	4.2	3.5	0.5	24.6	85
	RG	181	3.5	4.8	0.1	42.0	135
	SC	109	2.4	2.6	0.1	20.6	111
	SN	158	3.3	2.9	0.5	17.6	87
	VR	242	5.1	3.6	0.3	19.4	71
LAC	AC	504	4.5	3.3	0.3	25.0	73
	FR	352	5.1	3.1	0.5	17.0	60
	LX	153	3.2	2.3	0.5	11.8	73
	NT	57	6.1	3.4	1.7	15.2	55
	PT	32	4.9	4.0	0.9	19.1	82
ORG	HS	101	35.3	19.1	8.8	110.8	54
POD	PZ	69	13.0	8.0	2.4	38.9	62
SAN	AL	1	0.8		0.8	0.8	
	AN	20	9.6	11.6	0.2	40.7	121
	AR	577	1.6	1.5	0.1	11.5	96
	CL	9	0.8	0.7	0.1	2.4	90
	CM	34	4.8	4.9	0.3	24.2	102
	FL	16	4.2	3.2	0.4	11.1	76
	FR	1	2.7		2.7	2.7	
	GL	16	8.2	5.3	1.0	20.3	65
	GY	2	0.5	0.0	0.5	0.5	0
	LP	9	6.5	8.2	0.2	24.4	125
	LV	14	1.5	1.0	0.5	3.5	63
	LX	2	1.3	1.1	0.5	2.0	85
	PD	9	2.5	1.2	1.3	5.4	49
	PL	1	1.0		1.0	1.0	
	PZ	98	8.2	8.3	0.3	45.1	101
	RG	60	2.1	2.5	0.1	12.5	119
	SC	13	0.9	0.6	0.2	2.3	71
VOL	AN	118	12.7	8.4	1.0	64.6	66
WET	GL	271	8.5	7.6	0.1	55.9	89

^a Codes for major soil groups are according to FAO (1990): AC - Acrisols; AL - Alisols; AN - Andosols; AR - Arenosols; AT - Anthrosols; CH - Chernozems; CL - Calcisols; CM - Cambisols; FL - Fluvisols; FR - Ferralsols; GL - Gleysols; GR - Greyzems; GY - Gypsisols; HS - Histosols; KS - Kastanozems; LP - Leptosols; LV - Luvisols; LX - Lixisols; NT - Nitisols; PD - Podzoluvisols; PH - Phaeozems; PL - Planosols; PT - Plinthosols; PZ - Podzols; RG - Regosols; SC - Solonchaks; SN - Solonetz; VR - Vertisols.

Appendix 2. Descriptive statistics for SOC stocks (kg C m⁻²) to 0-30, 0-50 and 0-100 cm for soil under native vegetation, clustered according to combinations of IPCC climate regions, IPCC soil classes, natural vegetation (subgroups) and/or soil textural class¹

IPCCcase	LONGID	N0	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcli	HAC_Bx_SOC1	39	35	6.3	3.4	54	5.8	2.2	1.4	3.6	8.2	15.7
SOLcli	HAC_Bx_SOC2	38	35	8.6	5.0	58	8.3	3.8	1.6	4.5	12.4	24.4
SOLcli	HAC_Bx_SOC3	19	19	15.4	10.2	66	12.4	6.1	4.6	6.3	19.2	38.0
SOLcli	HAC_C1_SOC1	350	334	8.1	4.0	49	7.4	2.8	1.1	5.0	11.0	19.7
SOLcli	HAC_C1_SOC2	340	325	10.3	5.1	49	9.5	3.6	1.4	6.3	13.6	25.1
SOLcli	HAC_C1_SOC3	272	259	12.7	6.3	50	11.4	3.7	1.9	8.0	16.2	30.6
SOLcli	HAC_C2_SOC1	184	177	4.3	2.4	56	3.8	1.7	0.5	2.3	5.8	11.4
SOLcli	HAC_C2_SOC2	167	159	5.9	3.0	51	5.5	2.3	0.8	3.4	7.9	14.6
SOLcli	HAC_C2_SOC3	146	136	8.5	3.9	46	8.4	2.8	1.2	5.1	10.9	17.8
SOLcli	HAC_Px_SOC1	25	24	5.9	6.1	103	3.0	2.7	0.1	1.6	9.9	20.7
SOLcli	HAC_Px_SOC2	23	20	5.6	4.7	83	4.0	3.3	0.1	1.5	10.5	14.5
SOLcli	HAC_Px_SOC3	12	12	16.4	11.5	70	15.6	8.6	0.2	6.5	23.7	36.6
SOLcli	HAC_T1_SOC1	118	114	5.1	2.8	55	4.6	2.0	0.5	2.7	6.9	13.4
SOLcli	HAC_T1_SOC2	112	108	7.4	3.8	52	6.6	2.8	0.6	4.2	10.2	19.4
SOLcli	HAC_T1_SOC3	87	85	12.1	6.7	55	11.5	4.8	0.9	6.8	16.8	28.2
SOLcli	HAC_T2_SOC1	138	137	6.0	3.0	50	5.3	1.9	1.2	3.7	7.9	14.2
SOLcli	HAC_T2_SOC2	128	127	8.0	3.8	47	7.5	2.7	1.6	4.9	10.5	18.8
SOLcli	HAC_T2_SOC3	103	100	10.5	4.9	47	9.6	3.7	2.1	6.8	14.1	23.0
SOLcli	HAC_T3_SOC1	245	226	4.0	2.2	56	3.5	1.4	0.3	2.4	5.3	10.6
SOLcli	HAC_T3_SOC2	231	215	5.4	2.9	54	4.7	1.7	0.5	3.3	7.2	14.1
SOLcli	HAC_T3_SOC3	181	170	7.4	3.5	47	6.8	2.2	0.6	4.9	9.3	17.1
SOLcli	HAC_T4_SOC1	587	554	2.1	1.3	64	1.7	0.7	0.2	1.1	2.7	6.0
SOLcli	HAC_T4_SOC2	548	517	3.1	1.8	59	2.7	1.0	0.3	1.8	4.0	8.5
SOLcli	HAC_T4_SOC3	356	337	5.4	2.9	55	5.0	2.0	0.5	3.1	7.1	14.6
SOLcli	HAC_W1_SOC1	516	489	6.4	3.3	52	5.9	2.1	0.9	4.0	8.2	16.0
SOLcli	HAC_W1_SOC2	490	462	8.5	4.5	52	7.7	2.7	1.2	5.2	10.7	21.4
SOLcli	HAC_W1_SOC3	375	353	11.0	5.6	51	10.1	3.4	1.4	6.8	13.6	27.8
SOLcli	HAC_W2_SOC1	819	781	2.4	1.6	67	1.9	0.9	0.1	1.1	3.2	7.3
SOLcli	HAC_W2_SOC2	794	751	3.3	2.1	62	2.9	1.3	0.2	1.7	4.5	9.6
SOLcli	HAC_W2_SOC3	598	567	5.2	3.1	59	4.5	1.9	0.5	2.7	6.9	14.7
SOLcli	LAC_C1_SOC1	6	6	7.6	4.8	63	6.6	1.8	1.9	4.5	10.7	16.1
SOLcli	LAC_C1_SOC2	6	6	8.7	5.3	61	7.4	1.4	2.2	5.9	12.1	18.2
SOLcli	LAC_T1_SOC1	90	84	4.4	2.2	51	3.6	1.2	0.5	2.9	5.9	10.7
SOLcli	LAC_T1_SOC2	88	82	6.1	3.1	51	5.1	1.7	0.7	3.9	8.4	14.0
SOLcli	LAC_T1_SOC3	79	75	9.0	4.8	53	7.6	2.4	1.3	5.5	12.4	21.1
SOLcli	LAC_T2_SOC1	279	271	5.2	2.5	48	4.6	1.6	1.2	3.2	6.9	12.6
SOLcli	LAC_T2_SOC2	277	270	6.9	3.1	45	6.4	2.2	1.5	4.4	9.1	16.5
SOLcli	LAC_T2_SOC3	253	243	9.4	3.8	40	8.8	2.6	2.1	6.4	12.1	20.5
SOLcli	LAC_T3_SOC1	341	326	3.8	1.9	50	3.3	1.2	0.7	2.4	5.0	9.6
SOLcli	LAC_T3_SOC2	341	327	5.2	2.5	49	4.6	1.6	0.9	3.3	6.8	12.6
SOLcli	LAC_T3_SOC3	316	299	7.4	3.3	45	6.8	2.2	1.1	4.9	9.5	17.2
SOLcli	LAC_T4_SOC1	145	135	1.9	1.1	57	1.7	0.7	0.5	1.0	2.4	5.1

¹ Scenario codes consists of codes for: IPCC soil class (SOL), climate zone (Cli, e.g. Cli1 main zone, Cli2 subzone), natural vegetation (VEG, e.g. VEG1 for class, VEG 2 for subclass, see p. 13 for details), and a code for the soil textural class (TXT) defined according to the Soil Map of the World, i.e. 1- coarse, 2 -medium and 3 -fine (FAO, 1990). For details, see text. N1 is the sample size remaining after statistical outlier-rejection.

IPCCcase	LONGID	NO	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcli	LAC_T4_SOC2	140	130	2.7	1.4	53	2.4	1.0	0.8	1.5	3.5	6.9
SOLcli	LAC_T4_SOC3	108	100	4.5	2.3	51	4.1	1.6	1.0	2.7	5.8	11.5
SOLcli	LAC_W1_SOC1	191	183	5.5	2.9	53	5.0	1.9	0.3	3.5	7.3	13.4
SOLcli	LAC_W1_SOC2	190	180	7.1	3.7	52	6.4	2.3	0.4	4.3	9.1	17.3
SOLcli	LAC_W1_SOC3	174	164	9.6	5.1	53	8.6	2.9	0.5	5.9	12.4	23.7
SOLcli	LAC_W2_SOC1	45	41	1.9	1.0	50	1.8	0.7	0.5	1.2	2.6	4.4
SOLcli	LAC_W2_SOC2	45	42	2.8	1.3	47	2.4	0.8	1.0	1.8	3.9	7.0
SOLcli	LAC_W2_SOC3	37	35	4.4	1.9	43	4.2	1.0	1.6	3.2	5.4	9.1
SOLcli	ORG_Bx_SOC1	13	13	44.1	9.7	22	48.7	3.8	28.7	32.8	52.1	55.1
SOLcli	ORG_Bx_SOC2	12	12	70.7	19.3	27	70.2	18.4	36.7	53.0	88.7	97.0
SOLcli	ORG_Bx_SOC3	12	12	122.0	50.1	41	105.9	39.7	58.9	77.9	172.5	197.6
SOLcli	ORG_C1_SOC1	45	44	35.9	19.3	54	32.2	13.3	11.5	19.9	49.0	93.9
SOLcli	ORG_C1_SOC2	44	42	53.1	28.8	54	49.4	19.5	15.2	29.8	68.8	124.8
SOLcli	ORG_C1_SOC3	42	40	89.0	42.5	48	80.1	28.0	21.7	53.1	114.7	196.3
SOLcli	ORG_Px_SOC1	12	12	37.9	11.8	31	36.4	8.8	19.6	28.0	45.3	58.2
SOLcli	ORG_Px_SOC2	8	8	59.7	16.6	28	62.6	9.7	34.8	41.8	73.4	79.9
SOLcli	ORG_T2_SOC1	11	11	22.5	9.8	44	22.9	6.4	9.0	16.0	27.6	42.2
SOLcli	ORG_T2_SOC2	11	11	34.9	17.5	50	34.6	11.6	12.0	21.6	44.4	65.8
SOLcli	ORG_T2_SOC3	10	10	57.9	33.0	57	55.4	23.0	16.7	29.7	80.4	125.9
SOLcli	ORG_W1_SOC1	8	8	20.2	9.9	49	20.8	6.4	8.8	11.3	24.6	39.8
SOLcli	ORG_W1_SOC2	8	8	28.7	14.7	51	27.8	10.1	13.0	15.2	37.1	57.3
SOLcli	ORG_W1_SOC3	7	7	53.6	40.4	75	29.2	16.0	13.2	23.3	94.6	117.3
SOLcli	POD_C1_SOC1	46	45	12.8	6.1	48	11.5	4.1	3.1	7.9	16.5	30.3
SOLcli	POD_C1_SOC2	40	38	16.7	8.7	52	14.5	4.9	3.2	10.4	19.7	39.7
SOLcli	POD_C1_SOC3	22	20	19.6	13.7	70	14.2	4.3	3.4	11.3	25.6	52.1
SOLcli	POD_W1_SOC1	9	9	14.3	6.5	46	14.2	5.4	4.7	8.8	20.0	23.9
SOLcli	POD_W1_SOC2	9	9	19.1	8.5	44	19.3	6.8	5.7	12.4	27.4	31.0
SOLcli	SAN_C1_SOC1	138	126	5.1	3.9	76	4.2	2.2	0.2	2.1	7.1	16.8
SOLcli	SAN_C1_SOC2	134	124	6.7	5.0	75	5.4	3.0	0.7	2.8	9.3	22.8
SOLcli	SAN_C1_SOC3	114	106	7.8	5.5	71	6.4	3.4	1.1	3.4	11.0	23.9
SOLcli	SAN_C2_SOC1	11	10	1.3	0.7	51	1.2	0.3	0.1	1.0	1.7	2.6
SOLcli	SAN_C2_SOC2	9	8	1.7	0.9	50	1.7	0.5	0.2	1.2	2.4	3.0
SOLcli	SAN_C2_SOC3	8	7	2.8	1.7	62	2.5	1.2	0.4	1.4	4.4	5.2
SOLcli	SAN_Px_SOC1	20	18	2.7	2.9	106	1.4	1.2	0.2	0.4	4.5	9.5
SOLcli	SAN_Px_SOC2	15	14	4.4	3.7	85	3.9	2.7	0.2	1.0	6.8	12.9
SOLcli	SAN_Px_SOC3	6	6	7.2	5.4	75	5.9	3.7	1.5	2.6	11.8	16.2
SOLcli	SAN_T1_SOC1	12	11	5.2	3.0	58	4.7	1.4	1.2	2.5	6.1	10.7
SOLcli	SAN_T1_SOC2	12	11	6.9	3.8	56	6.8	1.7	1.8	3.4	8.3	13.8
SOLcli	SAN_T1_SOC3	10	9	10.6	3.7	35	11.5	2.4	3.4	8.5	13.0	16.5
SOLcli	SAN_T2_SOC1	44	43	4.6	3.1	68	4.1	2.2	0.5	1.7	6.3	12.5
SOLcli	SAN_T2_SOC2	43	41	5.5	3.5	64	5.2	2.9	0.7	2.3	7.5	12.9
SOLcli	SAN_T2_SOC3	36	33	7.6	5.2	68	6.5	2.8	1.3	3.8	9.9	19.4
SOLcli	SAN_T3_SOC1	82	76	2.7	1.5	58	2.3	1.0	0.7	1.4	3.6	7.0
SOLcli	SAN_T3_SOC2	81	75	3.6	2.1	58	3.0	1.3	1.0	2.0	4.6	9.6
SOLcli	SAN_T3_SOC3	74	69	5.2	2.9	55	4.5	1.9	1.7	2.9	6.9	13.4
SOLcli	SAN_T4_SOC1	177	164	0.9	0.5	56	0.8	0.3	0.1	0.5	1.2	2.4
SOLcli	SAN_T4_SOC2	174	161	1.3	0.7	51	1.2	0.4	0.2	0.8	1.6	3.2
SOLcli	SAN_T4_SOC3	136	131	2.3	1.2	53	1.9	0.6	0.4	1.4	3.0	5.8
SOLcli	San_W1_SOC1	44	39	3.6	2.6	70	2.9	1.1	0.3	2.0	4.9	10.1
SOLcli	San_W1_SOC2	41	37	4.9	3.4	70	4.2	1.6	0.5	2.5	5.8	15.0
SOLcli	San_W1_SOC3	34	31	6.8	4.8	70	5.3	2.6	1.1	3.4	9.6	20.9
SOLcli	San_W2_SOC1	350	338	1.0	0.5	46	0.9	0.3	0.1	0.7	1.3	2.4

IPCCcase	LONGID	N0	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcli	San_W2_SOC2	342	329	1.5	0.6	40	1.5	0.4	0.1	1.1	1.9	3.1
SOLcli	San_W2_SOC3	324	310	2.4	0.8	34	2.3	0.5	0.2	1.8	2.9	4.7
SOLcli	VOL_C1_SOC1	29	28	13.6	5.2	38	13.7	2.8	3.5	10.9	16.9	23.1
SOLcli	VOL_C1_SOC2	28	27	19.1	7.4	39	19.0	5.2	4.9	15.1	24.8	31.2
SOLcli	VOL_C1_SOC3	17	17	22.3	8.6	39	20.6	5.7	6.4	17.1	30.0	34.3
SOLcli	VOL_T1_SOC1	10	10	9.6	4.8	50	7.4	1.6	5.3	5.9	16.0	16.7
SOLcli	VOL_T1_SOC2	10	10	13.7	5.9	43	11.4	3.3	7.6	8.4	18.9	23.7
SOLcli	VOL_T1_SOC3	9	9	21.9	9.5	43	19.2	7.6	11.6	12.4	31.3	35.5
SOLcli	VOL_T2_SOC1	14	14	7.7	4.0	52	6.6	2.2	1.4	5.0	10.4	15.6
SOLcli	VOL_T2_SOC2	14	13	9.5	4.5	48	8.1	3.1	2.1	6.7	12.9	19.6
SOLcli	VOL_T2_SOC3	14	13	13.4	6.1	45	12.2	4.0	4.4	8.9	16.7	28.0
SOLcli	VOL_W1_SOC1	43	42	13.8	5.6	40	14.3	2.8	3.0	9.0	16.6	27.1
SOLcli	VOL_W1_SOC2	43	42	19.9	7.9	40	20.8	5.3	4.3	13.3	24.8	38.1
SOLcli	VOL_W1_SOC3	37	36	32.2	13.8	43	31.3	9.9	6.7	21.2	41.7	61.5
SOLcli	VOL_W2_SOC1	10	10	8.4	8.8	105	3.3	2.3	1.0	1.2	18.1	22.7
SOLcli	VOL_W2_SOC2	10	10	12.1	12.7	105	5.0	3.6	1.3	1.8	25.7	33.5
SOLcli	VOL_W2_SOC3	9	9	19.1	21.0	110	5.5	3.9	1.6	2.3	37.7	58.1
SOLcli	WET_Bx_SOC1	6	6	11.6	9.4	81	11.0	7.6	1.6	2.8	19.9	24.8
SOLcli	WET_Bx_SOC2	6	6	16.5	13.2	80	14.8	9.1	2.3	4.6	27.2	38.1
SOLcli	WET_C1_SOC1	44	42	12.8	5.5	43	11.3	3.6	4.5	8.3	16.4	27.0
SOLcli	WET_C1_SOC2	44	41	15.0	5.5	37	14.3	4.5	6.1	10.1	19.2	28.1
SOLcli	WET_C1_SOC3	39	37	17.3	5.8	33	17.6	4.6	7.7	11.9	21.7	28.9
SOLcli	WET_T1_SOC1	12	12	8.2	7.3	88	5.8	3.6	1.3	2.8	13.7	25.2
SOLcli	WET_T1_SOC2	11	11	8.6	5.8	67	6.6	4.1	1.8	3.8	13.7	18.1
SOLcli	WET_T1_SOC3	9	9	10.7	6.0	56	10.9	5.1	2.7	5.4	16.1	20.4
SOLcli	WET_T2_SOC1	35	33	4.9	2.2	45	4.9	1.6	1.6	3.2	6.1	9.7
SOLcli	WET_T2_SOC2	35	32	6.2	2.5	40	5.9	1.8	2.6	4.1	7.9	11.6
SOLcli	WET_T2_SOC3	27	24	8.4	3.0	35	7.2	1.9	3.5	6.4	10.8	14.7
SOLcli	WET_T3_SOC1	57	55	6.8	4.5	67	5.3	2.4	1.1	3.5	9.6	17.9
SOLcli	WET_T3_SOC2	53	51	8.1	5.0	61	6.9	3.6	1.4	4.5	11.0	20.1
SOLcli	WET_T3_SOC3	46	46	12.4	8.0	65	10.1	4.2	2.0	6.6	17.2	31.7
SOLcli	WET_T4_SOC1	36	32	2.2	1.1	50	2.0	0.7	0.6	1.3	2.7	5.3
SOLcli	WET_T4_SOC2	36	34	3.4	1.8	53	3.0	1.1	0.9	1.9	4.3	7.8
SOLcli	WET_T4_SOC3	28	27	5.8	3.3	57	5.8	2.3	1.9	3.3	7.1	14.4
SOLcli	WET_W1_SOC1	28	28	13.5	10.1	75	9.4	4.9	0.7	5.6	21.9	38.6
SOLcli	WET_W1_SOC2	28	27	17.9	13.9	78	11.8	5.8	1.1	7.3	22.9	48.7
SOLcli	WET_W1_SOC3	25	24	25.9	22.3	86	17.1	8.8	2.0	9.8	38.6	83.1
SOLcli	WET_W2_SOC1	49	49	7.4	4.5	61	6.6	3.4	1.0	3.6	10.3	17.1
SOLcli	WET_W2_SOC2	48	48	11.1	6.8	62	10.7	5.8	1.3	4.8	15.8	27.2
SOLcli	WET_W2_SOC3	46	45	16.5	10.3	63	0.0	0.0	1.9	0.0		36.0
SOLcliTXT	HAC_Bx_2_SOC1	33	31	7.4	4.5	60	7.0	3.2	1.4	3.8	9.1	18.7
SOLcliTXT	HAC_Bx_2_SOC2	32	30	9.8	6.2	63	9.0	4.5	1.6	4.4	13.3	28.1
SOLcliTXT	HAC_Bx_2_SOC3	16	16	15.7	11.0	70	12.1	6.7	4.6	5.8	26.6	38.0
SOLcliTXT	HAC_C1_1_SOC1	21	21	7.1	4.0	57	5.4	1.8	1.7	4.0	9.0	16.0
SOLcliTXT	HAC_C1_1_SOC2	19	19	8.9	5.1	58	6.6	2.5	2.3	4.8	12.8	17.7
SOLcliTXT	HAC_C1_1_SOC3	17	17	11.0	6.2	56	8.9	4.1	2.9	5.5	18.7	20.1
SOLcliTXT	HAC_C1_2_SOC1	265	251	7.8	3.9	50	7.1	2.7	1.1	4.7	10.4	19.7
SOLcliTXT	HAC_C1_2_SOC2	259	245	9.8	4.7	48	8.9	3.3	1.4	6.1	13.0	23.6
SOLcliTXT	HAC_C1_2_SOC3	210	196	11.6	5.3	45	10.8	3.5	1.9	7.8	14.6	27.0
SOLcliTXT	HAC_C1_3_SOC1	64	62	9.8	4.1	42	9.7	2.9	3.1	6.8	12.7	19.4
SOLcliTXT	HAC_C1_3_SOC2	62	61	12.9	5.6	43	12.7	3.4	3.8	8.7	16.1	26.5
SOLcliTXT	HAC_C1_3_SOC3	45	45	18.2	8.8	49	16.2	5.7	4.4	12.1	25.5	39.2

IPCCcase	LONGID	NO	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliTXT	HAC_C2_1_SOC1	23	23	2.4	1.5	60	2.0	0.9	0.7	1.2	3.7	6.1
SOLcliTXT	HAC_C2_1_SOC2	18	17	3.3	1.8	55	2.6	0.9	1.1	1.9	4.8	6.9
SOLcliTXT	HAC_C2_1_SOC3	17	16	5.5	2.9	52	4.3	1.5	1.8	3.3	8.0	11.3
SOLcliTXT	HAC_C2_2_SOC1	125	118	4.2	2.3	55	3.8	1.6	0.5	2.5	5.6	10.6
SOLcliTXT	HAC_C2_2_SOC2	117	110	5.7	2.9	51	5.4	2.3	0.8	3.2	7.7	14.6
SOLcliTXT	HAC_C2_2_SOC3	101	92	8.0	3.5	44	7.8	2.8	1.2	4.9	10.5	17.4
SOLcliTXT	HAC_C2_3_SOC1	36	35	5.3	2.2	41	4.9	1.8	1.4	3.6	6.7	10.0
SOLcliTXT	HAC_C2_3_SOC2	32	31	7.8	2.5	32	7.8	1.9	3.5	5.6	9.4	13.1
SOLcliTXT	HAC_C2_3_SOC3	28	27	11.6	3.4	29	10.9	2.4	5.5	9.1	14.7	17.8
SOLcliTXT	HAC_Px_1_SOC1	6	6	1.1	1.3	110	0.5	0.3	0.1	0.3	2.5	3.1
SOLcliTXT	HAC_Px_1_SOC2	6	6	1.9	2.3	121	0.8	0.5	0.1	0.4	3.9	6.1
SOLcliTXT	HAC_Px_2_SOC1	17	17	8.8	7.4	84	7.1	4.3	0.1	2.7	14.2	24.6
SOLcliTXT	HAC_Px_2_SOC2	16	15	9.8	8.6	88	7.4	3.9	0.2	3.5	14.3	29.3
SOLcliTXT	HAC_Px_2_SOC3	10	10	17.3	11.2	65	15.6	8.5	5.2	6.5	26.3	36.6
SOLcliTXT	HAC_T1_1_SOC1	6	6	3.5	2.1	60	2.7	1.0	1.1	2.0	5.9	6.4
SOLcliTXT	HAC_T1_2_SOC1	50	48	4.6	2.6	58	4.0	1.8	0.5	2.5	6.1	11.3
SOLcliTXT	HAC_T1_2_SOC2	48	47	6.7	3.7	55	6.2	2.6	0.6	3.6	9.0	16.8
SOLcliTXT	HAC_T1_2_SOC3	32	32	11.1	7.0	64	10.4	5.3	0.9	5.0	16.0	27.5
SOLcliTXT	HAC_T1_3_SOC1	62	58	5.4	2.6	47	5.1	2.0	1.3	3.3	7.3	10.8
SOLcliTXT	HAC_T1_3_SOC2	59	56	8.2	3.9	48	7.4	2.9	2.0	5.0	11.3	20.8
SOLcliTXT	HAC_T1_3_SOC3	50	48	13.5	6.3	47	11.9	4.6	2.8	8.3	18.4	28.2
SOLcliTXT	HAC_T2_1_SOC1	9	8	4.6	1.6	35	4.9	1.5	2.2	3.0	5.9	6.8
SOLcliTXT	HAC_T2_1_SOC2	8	7	6.4	2.8	43	7.3	2.7	2.9	3.9	8.8	10.0
SOLcliTXT	HAC_T2_2_SOC1	82	82	5.5	2.9	52	4.8	1.8	1.2	3.5	7.9	12.8
SOLcliTXT	HAC_T2_2_SOC2	73	73	7.3	3.6	49	6.5	2.3	2.0	4.5	10.4	16.7
SOLcliTXT	HAC_T2_2_SOC3	62	62	9.5	4.5	48	8.1	2.5	2.9	5.9	12.9	22.1
SOLcliTXT	HAC_T2_3_SOC1	47	46	6.8	3.0	43	6.4	1.8	1.3	4.8	8.4	13.9
SOLcliTXT	HAC_T2_3_SOC2	47	46	9.1	3.7	41	8.8	2.3	1.6	6.4	11.0	17.2
SOLcliTXT	HAC_T2_3_SOC3	37	34	12.2	4.7	38	11.9	3.3	2.1	8.5	15.4	22.4
SOLcliTXT	HAC_T3_1_SOC1	39	37	2.6	1.6	59	2.4	1.0	0.3	1.5	3.5	6.1
SOLcliTXT	HAC_T3_1_SOC2	34	32	3.3	1.9	57	2.5	1.0	0.5	2.2	4.5	8.2
SOLcliTXT	HAC_T3_1_SOC3	24	22	4.1	1.7	42	3.8	1.1	0.6	2.9	5.2	7.7
SOLcliTXT	HAC_T3_2_SOC1	128	120	4.0	2.1	53	3.4	1.2	0.9	2.4	5.3	10.3
SOLcliTXT	HAC_T3_2_SOC2	123	116	5.3	2.6	49	4.6	1.5	1.5	3.4	6.9	13.2
SOLcliTXT	HAC_T3_2_SOC3	97	92	7.3	3.3	45	6.6	2.0	2.3	4.8	9.0	15.6
SOLcliTXT	HAC_T3_3_SOC1	78	73	5.3	3.1	58	4.4	1.6	0.6	3.0	6.6	13.4
SOLcliTXT	HAC_T3_3_SOC2	74	68	6.8	3.5	52	5.9	2.0	0.6	4.1	9.2	16.3
SOLcliTXT	HAC_T3_3_SOC3	60	54	8.9	3.6	40	8.4	2.1	1.1	6.5	11.1	18.8
SOLcliTXT	HAC_T4_1_SOC1	110	105	1.2	0.5	45	1.1	0.3	0.3	0.8	1.5	2.6
SOLcliTXT	HAC_T4_1_SOC2	105	100	1.8	0.7	39	1.7	0.5	0.4	1.2	2.2	3.5
SOLcliTXT	HAC_T4_1_SOC3	55	52	2.9	1.1	39	2.9	0.8	0.9	2.1	3.6	6.0
SOLcliTXT	HAC_T4_2_SOC1	317	287	1.8	0.9	51	1.6	0.5	0.2	1.1	2.2	4.6
SOLcliTXT	HAC_T4_2_SOC2	288	260	2.7	1.2	45	2.5	0.8	0.3	1.8	3.3	6.4
SOLcliTXT	HAC_T4_2_SOC3	183	173	4.8	2.3	47	4.4	1.5	0.5	3.0	5.9	10.7
SOLcliTXT	HAC_T4_3_SOC1	160	149	3.1	1.7	54	3.0	1.2	0.3	1.8	4.2	8.0
SOLcliTXT	HAC_T4_3_SOC2	155	146	4.8	2.5	51	4.6	1.7	0.5	3.0	6.3	12.0
SOLcliTXT	HAC_T4_3_SOC3	118	111	7.7	3.5	46	7.4	2.1	1.0	5.6	9.7	16.6
SOLcliTXT	HAC_W1_1_SOC1	37	33	4.2	2.0	49	3.5	1.0	1.1	3.0	4.8	9.9
SOLcliTXT	HAC_W1_1_SOC2	36	30	5.2	2.0	38	5.0	1.5	1.7	3.7	6.7	10.4
SOLcliTXT	HAC_W1_1_SOC3	28	26	7.6	2.7	36	7.5	1.7	3.0	5.4	9.1	14.2
SOLcliTXT	HAC_W1_2_SOC1	310	287	5.7	2.7	48	5.2	1.7	0.9	3.7	7.1	13.6
SOLcliTXT	HAC_W1_2_SOC2	294	270	7.4	3.5	47	7.0	2.3	1.2	4.7	9.3	17.5

IPCCcase	LONGID	N0	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliTXT	HAC_W1_2_SOC3	230	209	9.3	4.3	46	8.8	2.7	1.4	6.1	11.6	21.8
SOLcliTXT	HAC_W1_3_SOC1	169	164	8.1	4.0	49	7.6	2.7	0.9	4.9	10.4	19.3
SOLcliTXT	HAC_W1_3_SOC2	160	154	10.9	5.2	48	9.9	3.3	2.0	7.0	14.1	25.1
SOLcliTXT	HAC_W1_3_SOC3	117	109	14.2	6.2	44	13.0	4.0	3.0	9.8	18.0	31.6
SOLcliTXT	HAC_W2_1_SOC1	219	204	1.3	0.7	51	1.1	0.4	0.1	0.8	1.7	3.0
SOLcliTXT	HAC_W2_1_SOC2	215	205	2.0	1.0	50	1.7	0.6	0.2	1.2	2.6	5.0
SOLcliTXT	HAC_W2_1_SOC3	164	160	3.2	1.5	45	2.7	0.8	0.5	2.2	4.1	7.2
SOLcliTXT	HAC_W2_2_SOC1	390	359	2.2	1.3	59	2.0	0.9	0.1	1.2	3.0	6.2
SOLcliTXT	HAC_W2_2_SOC2	374	352	3.3	1.9	57	2.9	1.2	0.2	1.8	4.3	8.8
SOLcliTXT	HAC_W2_2_SOC3	275	259	5.0	2.6	52	4.6	1.7	0.6	3.0	6.3	12.7
SOLcliTXT	HAC_W2_3_SOC1	210	201	3.6	1.9	54	3.5	1.3	0.6	2.0	4.6	9.2
SOLcliTXT	HAC_W2_3_SOC2	205	195	5.2	2.6	50	4.8	1.8	0.9	3.0	6.7	12.1
SOLcliTXT	HAC_W2_3_SOC3	159	153	8.3	4.1	49	8.0	2.9	1.3	5.0	10.6	19.6
SOLcliTXT	LAC_T1_2_SOC1	29	28	3.0	1.0	34	3.0	0.6	1.3	2.0	3.6	5.5
SOLcliTXT	LAC_T1_2_SOC2	29	27	3.8	1.1	30	3.8	0.9	1.7	2.8	4.7	6.3
SOLcliTXT	LAC_T1_2_SOC3	29	27	5.4	1.7	31	5.5	1.3	2.3	3.9	6.4	9.4
SOLcliTXT	LAC_T1_3_SOC1	56	51	5.4	2.6	49	5.6	2.0	0.5	3.3	6.7	13.3
SOLcliTXT	LAC_T1_3_SOC2	54	50	7.9	3.9	50	7.5	2.5	0.7	4.9	10.2	19.5
SOLcliTXT	LAC_T1_3_SOC3	46	43	11.6	5.5	47	10.7	3.5	1.3	7.5	15.4	29.8
SOLcliTXT	LAC_T2_1_SOC1	29	27	3.3	1.3	40	3.1	0.7	1.2	2.5	4.2	6.9
SOLcliTXT	LAC_T2_1_SOC2	29	27	4.5	1.7	37	4.3	1.1	1.5	3.6	5.6	8.0
SOLcliTXT	LAC_T2_1_SOC3	26	25	6.3	2.2	34	6.2	1.3	2.1	5.1	7.8	10.2
SOLcliTXT	LAC_T2_2_SOC1	115	113	4.6	2.1	46	4.2	1.4	1.2	3.0	6.1	9.8
SOLcliTXT	LAC_T2_2_SOC2	114	113	6.3	2.8	44	5.7	2.0	1.9	4.1	8.4	14.4
SOLcliTXT	LAC_T2_2_SOC3	108	107	8.9	3.6	40	8.2	2.5	3.1	6.2	11.3	17.8
SOLcliTXT	LAC_T2_3_SOC1	135	130	6.1	2.8	46	5.4	1.9	1.5	3.9	7.6	13.8
SOLcliTXT	LAC_T2_3_SOC2	134	129	8.0	3.4	42	7.5	2.3	2.5	5.4	9.9	17.2
SOLcliTXT	LAC_T2_3_SOC3	119	115	11.1	4.4	39	10.9	3.2	4.2	7.4	13.7	23.1
SOLcliTXT	LAC_T3_1_SOC1	74	71	2.3	0.9	38	2.2	0.5	0.7	1.7	2.6	4.3
SOLcliTXT	LAC_T3_1_SOC2	74	72	3.2	1.2	39	3.0	0.8	1.0	2.3	3.9	6.3
SOLcliTXT	LAC_T3_1_SOC3	69	67	4.8	1.8	38	4.7	1.2	1.6	3.6	5.9	9.3
SOLcliTXT	LAC_T3_2_SOC1	132	126	3.4	1.4	42	3.0	0.8	1.0	2.4	4.2	7.2
SOLcliTXT	LAC_T3_2_SOC2	132	125	4.5	1.8	41	4.1	0.9	1.1	3.3	5.4	9.6
SOLcliTXT	LAC_T3_2_SOC3	119	113	6.4	2.4	37	6.0	1.3	1.6	4.7	7.3	12.7
SOLcliTXT	LAC_T3_3_SOC1	135	130	5.3	2.1	40	5.0	1.3	0.7	3.8	6.5	11.0
SOLcliTXT	LAC_T3_3_SOC2	135	130	7.2	2.8	38	6.9	1.8	0.9	5.1	8.6	14.4
SOLcliTXT	LAC_T3_3_SOC3	128	125	10.4	4.0	38	9.9	2.6	1.1	7.4	12.6	20.7
SOLcliTXT	LAC_T4_1_SOC1	75	73	1.4	0.7	49	1.3	0.5	0.5	0.8	1.8	3.4
SOLcliTXT	LAC_T4_1_SOC2	72	71	2.1	1.0	49	2.0	0.8	0.8	1.2	2.8	5.3
SOLcliTXT	LAC_T4_1_SOC3	53	52	3.6	1.7	49	3.0	1.1	1.0	2.1	4.8	7.9
SOLcliTXT	LAC_T4_2_SOC1	48	45	2.2	1.2	54	1.9	0.7	0.5	1.4	3.0	5.7
SOLcliTXT	LAC_T4_2_SOC2	46	44	3.3	1.8	55	2.9	1.3	0.9	2.0	4.4	8.8
SOLcliTXT	LAC_T4_2_SOC3	35	32	4.8	2.1	44	4.1	1.2	1.6	3.1	6.2	9.4
SOLcliTXT	LAC_T4_3_SOC1	22	22	4.4	2.5	58	3.7	1.3	1.7	2.4	6.3	11.6
SOLcliTXT	LAC_T4_3_SOC2	22	21	5.6	2.8	50	5.0	1.7	2.7	3.3	7.4	12.0
SOLcliTXT	LAC_T4_3_SOC3	20	19	8.3	4.1	49	7.0	2.5	3.7	5.2	11.5	16.6
SOLcliTXT	LAC_W1_1_SOC1	23	21	3.1	1.5	50	2.7	1.0	1.2	1.8	4.0	7.2
SOLcliTXT	LAC_W1_1_SOC2	23	23	4.5	2.3	51	3.9	1.4	1.7	2.7	6.0	10.4
SOLcliTXT	LAC_W1_1_SOC3	19	18	5.4	2.2	40	5.4	1.2	2.4	3.5	6.1	9.5
SOLcliTXT	LAC_W1_2_SOC1	83	78	4.8	2.2	46	4.8	1.5	0.3	3.1	6.0	9.9
SOLcliTXT	LAC_W1_2_SOC2	82	79	6.4	3.2	50	6.2	2.1	0.4	3.8	8.2	14.9
SOLcliTXT	LAC_W1_2_SOC3	74	70	8.2	3.8	47	7.9	2.3	0.5	5.6	10.4	18.3

IPCCcase	LONGID	NO	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliTXT	LAC_W1_3_SOC1	85	84	7.1	3.5	50	6.1	2.0	1.7	4.3	9.5	16.8
SOLcliTXT	LAC_W1_3_SOC2	85	83	9.3	4.7	51	7.4	2.5	2.1	5.8	12.5	20.6
SOLcliTXT	LAC_W1_3_SOC3	81	78	12.6	6.5	51	10.2	3.6	2.5	7.7	17.1	29.6
SOLcliTXT	LAC_W2_1_SOC1	23	21	1.5	0.6	39	1.4	0.4	0.5	1.1	1.8	2.7
SOLcliTXT	LAC_W2_1_SOC2	23	23	2.3	0.9	40	2.2	0.7	1.0	1.6	2.9	4.0
SOLcliTXT	LAC_W2_1_SOC3	20	20	3.7	1.2	34	3.4	1.0	1.6	2.8	4.6	6.1
SOLcliTXT	LAC_W2_2_SOC1	19	17	2.2	1.0	45	2.1	0.6	0.8	1.5	2.8	4.4
SOLcliTXT	LAC_W2_2_SOC2	19	18	3.3	1.5	46	3.1	0.9	1.3	2.3	4.4	7.2
SOLcliTXT	LAC_W2_2_SOC3	15	14	5.3	2.0	37	4.9	1.0	2.6	3.9	6.7	9.1
SOLcliTXT	ORG_Bx_4_SOC1	13	13	44.1	9.7	22	48.7	3.8	28.7	32.8	52.1	55.1
SOLcliTXT	ORG_Bx_4_SOC2	12	12	70.7	19.3	27	70.2	18.4	36.7	53.0	88.7	97.0
SOLcliTXT	ORG_Bx_4_SOC3	12	12	122.0	50.1	41	105.9	39.7	58.9	77.9	172.5	197.6
SOLcliTXT	ORG_C1_4_SOC1	45	44	35.9	19.3	54	32.2	13.3	11.5	19.9	49.0	93.9
SOLcliTXT	ORG_C1_4_SOC2	44	42	53.1	28.8	54	49.4	19.5	15.2	29.8	68.8	124.8
SOLcliTXT	ORG_C1_4_SOC3	42	40	89.0	42.5	48	80.1	28.0	21.7	53.1	114.7	196.3
SOLcliTXT	ORG_Px_4_SOC1	12	12	37.9	11.8	31	36.4	8.8	19.6	28.0	45.3	58.2
SOLcliTXT	ORG_Px_4_SOC2	8	8	59.7	16.6	28	62.6	9.7	34.8	41.8	73.4	79.9
SOLcliTXT	ORG_T2_4_SOC1	11	11	22.5	9.8	44	22.9	6.4	9.0	16.0	27.6	42.2
SOLcliTXT	ORG_T2_4_SOC2	11	11	34.9	17.5	50	34.6	11.6	12.0	21.6	44.4	65.8
SOLcliTXT	ORG_T2_4_SOC3	10	10	57.9	33.0	57	55.4	23.0	16.7	29.7	80.4	125.9
SOLcliTXT	ORG_W1_4_SOC1	8	8	20.2	9.9	49	20.8	6.4	8.8	11.3	24.6	39.8
SOLcliTXT	ORG_W1_4_SOC2	8	8	28.7	14.7	51	27.8	10.1	13.0	15.2	37.1	57.3
SOLcliTXT	ORG_W1_4_SOC3	7	7	53.6	40.4	75	29.2	16.0	13.2	23.3	94.6	117.3
SOLcliTXT	POD_C1_1_SOC1	7	7	10.5	4.2	40	10.2	3.3	4.9	6.9	14.2	16.8
SOLcliTXT	POD_C1_1_SOC2	7	7	13.3	4.2	32	14.9	3.6	7.3	9.2	16.9	18.5
SOLcliTXT	POD_C1_2_SOC1	39	38	13.3	6.4	48	11.8	4.3	3.1	8.0	17.6	30.3
SOLcliTXT	POD_C1_2_SOC2	33	33	19.0	10.9	57	15.4	5.7	3.2	11.4	25.1	44.0
SOLcliTXT	POD_C1_2_SOC3	18	17	23.9	18.3	77	15.3	7.0	3.4	11.9	35.1	67.8
SOLcliTXT	SAN_C1_1_SOC1	132	120	5.0	3.9	78	3.9	2.3	0.2	2.1	6.8	16.8
SOLcliTXT	SAN_C1_1_SOC2	128	117	6.4	4.8	75	5.2	2.8	0.7	2.8	9.1	22.6
SOLcliTXT	SAN_C1_1_SOC3	108	99	7.4	5.2	70	5.7	2.9	1.1	3.3	10.4	23.4
SOLcliTXT	SAN_C1_2_SOC1	6	6	7.3	2.8	39	7.3	2.7	4.2	4.4	10.0	11.1
SOLcliTXT	SAN_C1_2_SOC2	6	6	10.0	4.6	47	10.2	3.8	4.7	5.2	13.8	16.6
SOLcliTXT	SAN_C1_2_SOC3	6	6	13.9	10.4	75	12.0	3.9	5.2	6.1	19.0	33.8
SOLcliTXT	SAN_C2_1_SOC1	11	10	1.3	0.7	51	1.2	0.3	0.1	1.0	1.7	2.6
SOLcliTXT	SAN_C2_1_SOC2	9	8	1.7	0.9	50	1.7	0.5	0.2	1.2	2.4	3.0
SOLcliTXT	SAN_C2_1_SOC3	8	7	2.8	1.7	62	2.5	1.2	0.4	1.4	4.4	5.2
SOLcliTXT	SAN_Px_1_SOC1	20	18	2.7	2.9	106	1.4	1.2	0.2	0.4	4.5	9.5
SOLcliTXT	SAN_Px_1_SOC2	15	14	4.4	3.7	85	3.9	2.7	0.2	1.0	6.8	12.9
SOLcliTXT	SAN_Px_1_SOC3	6	6	7.2	5.4	75	5.9	3.7	1.5	2.6	11.8	16.2
SOLcliTXT	SAN_T1_1_SOC1	11	10	4.7	2.7	57	4.6	1.4	1.2	2.4	6.0	10.7
SOLcliTXT	SAN_T1_1_SOC2	11	10	6.3	3.5	55	6.6	1.6	1.8	3.2	8.0	13.8
SOLcliTXT	SAN_T1_1_SOC3	9	8	10.2	3.8	37	10.5	1.7	3.4	8.4	12.1	16.5
SOLcliTXT	SAN_T2_1_SOC1	42	41	4.5	3.2	71	4.0	2.3	0.5	1.7	6.3	12.5
SOLcliTXT	SAN_T2_1_SOC2	41	39	5.4	3.6	67	4.8	2.5	0.7	2.2	7.3	12.9
SOLcliTXT	SAN_T2_1_SOC3	34	32	8.1	6.2	76	6.5	3.3	1.3	3.8	12.0	26.0
SOLcliTXT	SAN_T3_1_SOC1	81	75	2.6	1.6	59	2.2	1.1	0.7	1.4	3.6	7.0
SOLcliTXT	SAN_T3_1_SOC2	80	74	3.6	2.1	58	3.0	1.3	1.0	2.0	4.6	9.6
SOLcliTXT	SAN_T3_1_SOC3	73	68	5.2	2.9	56	4.4	1.9	1.7	2.9	6.9	13.4
SOLcliTXT	SAN_T4_1_SOC1	176	163	0.9	0.5	56	0.8	0.3	0.1	0.5	1.2	2.4
SOLcliTXT	SAN_T4_1_SOC2	173	158	1.3	0.6	50	1.2	0.4	0.2	0.8	1.6	3.0
SOLcliTXT	SAN_T4_1_SOC3	136	131	2.3	1.2	53	1.9	0.6	0.4	1.4	3.0	5.8

IPCCcase	LONGID	N0	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliTXT	San_W1_1_SOC1	43	38	3.5	2.4	70	2.8	1.1	0.3	2.0	4.8	10.1
SOLcliTXT	San_W1_1_SOC2	40	35	4.4	2.8	63	3.9	1.5	0.5	2.4	5.5	12.1
SOLcliTXT	San_W1_1_SOC3	33	30	6.6	4.8	72	5.2	2.6	1.1	3.4	8.4	20.9
SOLcliTXT	San_W2_1_SOC1	348	328	1.0	0.4	44	0.9	0.3	0.1	0.7	1.3	2.1
SOLcliTXT	San_W2_1_SOC2	340	325	1.5	0.6	40	1.4	0.4	0.1	1.0	1.9	3.0
SOLcliTXT	San_W2_1_SOC3	322	308	2.4	0.8	34	2.3	0.5	0.2	1.8	2.9	4.7
SOLcliTXT	VOL_C1_2_SOC1	27	26	13.9	5.0	36	13.7	2.8	3.5	11.0	17.3	23.1
SOLcliTXT	VOL_C1_2_SOC2	26	25	19.6	7.1	36	19.0	5.2	4.9	15.1	25.0	31.2
SOLcliTXT	VOL_C1_2_SOC3	16	16	23.3	7.8	34	22.7	5.5	7.3	18.5	30.1	34.3
SOLcliTXT	VOL_T1_2_SOC1	9	9	10.0	4.8	48	7.6	1.7	5.3	6.5	16.2	16.7
SOLcliTXT	VOL_T1_2_SOC2	9	9	14.3	6.0	42	11.5	3.9	7.6	9.3	20.1	23.7
SOLcliTXT	VOL_T1_2_SOC3	8	8	23.1	9.4	41	23.2	8.6	11.6	13.4	32.4	35.5
SOLcliTXT	VOL_T2_2_SOC1	8	8	9.0	2.9	33	8.8	1.9	5.5	6.4	10.6	14.6
SOLcliTXT	VOL_T2_2_SOC2	8	8	11.9	3.9	33	11.9	2.0	7.3	8.2	13.6	19.6
SOLcliTXT	VOL_T2_2_SOC3	8	7	15.0	3.0	20	16.1	2.2	10.6	12.0	17.1	19.0
SOLcliTXT	VOL_W1_2_SOC1	40	39	14.1	5.6	40	14.6	3.0	3.0	9.2	16.6	27.1
SOLcliTXT	VOL_W1_2_SOC2	40	39	20.3	7.9	39	21.1	4.5	4.3	13.6	25.1	38.1
SOLcliTXT	VOL_W1_2_SOC3	35	34	32.6	13.8	42	31.3	9.9	6.7	21.8	42.3	61.5
SOLcliTXT	VOL_W2_2_SOC1	7	7	5.7	7.7	136	2.0	0.9	1.0	1.1	11.4	21.0
SOLcliTXT	VOL_W2_2_SOC2	7	7	8.1	10.8	134	2.6	1.1	1.3	1.5	16.5	29.3
SOLcliTXT	VOL_W2_2_SOC3	7	7	11.1	14.6	131	3.7	1.8	1.6	2.2	22.5	39.6
SOLcliTXT	WET_Bx_2_SOC1	6	6	11.6	9.4	81	11.0	7.6	1.6	2.8	19.9	24.8
SOLcliTXT	WET_Bx_2_SOC2	6	6	16.5	13.2	80	14.8	9.1	2.3	4.6	27.2	38.1
SOLcliTXT	WET_C1_1_SOC1	6	6	11.1	5.5	50	9.4	3.0	5.3	6.9	16.9	19.4
SOLcliTXT	WET_C1_1_SOC2	6	6	13.3	6.3	47	11.4	3.7	6.2	8.6	19.3	23.0
SOLcliTXT	WET_C1_1_SOC3	6	6	15.7	6.7	43	14.0	4.3	7.7	10.6	22.1	26.2
SOLcliTXT	WET_C1_2_SOC1	28	26	12.4	5.4	44	10.6	3.0	4.5	8.2	16.5	27.0
SOLcliTXT	WET_C1_2_SOC2	28	26	14.9	5.6	38	14.0	4.6	6.1	9.9	19.3	28.1
SOLcliTXT	WET_C1_2_SOC3	24	23	16.9	5.8	34	16.9	5.3	8.6	11.5	22.2	28.9
SOLcliTXT	WET_C1_3_SOC1	10	10	14.9	5.6	37	13.8	3.0	8.2	10.7	18.7	24.3
SOLcliTXT	WET_C1_3_SOC2	10	9	16.7	4.7	28	16.6	2.4	10.4	13.5	19.5	26.4
SOLcliTXT	WET_C1_3_SOC3	9	8	19.8	4.7	24	20.4	1.7	12.2	16.2	21.9	27.9
SOLcliTXT	WET_T1_2_SOC1	6	6	9.1	5.8	64	9.9	4.9	1.3	3.1	14.5	15.5
SOLcliTXT	WET_T1_2_SOC2	6	6	10.9	6.4	59	11.8	5.6	1.8	4.4	16.9	18.1
SOLcliTXT	WET_T2_2_SOC1	16	14	3.5	1.3	38	3.3	1.0	1.6	2.4	4.8	6.3
SOLcliTXT	WET_T2_2_SOC2	16	15	5.0	2.2	43	4.4	1.1	2.6	3.5	5.9	10.4
SOLcliTXT	WET_T2_2_SOC3	12	11	6.9	2.7	39	6.4	1.0	3.5	5.1	7.4	12.9
SOLcliTXT	WET_T2_3_SOC1	17	16	5.8	2.2	38	5.5	1.5	1.9	4.3	7.4	9.7
SOLcliTXT	WET_T2_3_SOC2	17	15	7.2	2.3	32	6.9	1.0	3.3	5.9	8.8	11.6
SOLcliTXT	WET_T2_3_SOC3	14	12	9.4	2.8	29	9.2	2.3	6.1	6.8	11.6	14.7
SOLcliTXT	WET_T3_1_SOC1	8	8	2.4	1.3	56	2.2	0.9	1.1	1.2	3.4	4.7
SOLcliTXT	WET_T3_1_SOC2	8	8	3.2	1.9	59	2.8	1.1	1.4	1.7	4.3	6.9
SOLcliTXT	WET_T3_1_SOC3	7	7	4.6	2.7	59	3.8	1.6	2.0	2.3	6.6	9.3
SOLcliTXT	WET_T3_2_SOC1	16	16	5.1	2.9	57	3.8	0.9	2.1	3.4	7.1	10.7
SOLcliTXT	WET_T3_2_SOC2	16	16	6.8	4.0	59	5.1	1.5	2.8	4.4	10.2	15.4
SOLcliTXT	WET_T3_2_SOC3	13	12	8.2	3.2	39	6.9	2.3	4.2	6.1	10.2	14.0
SOLcliTXT	WET_T3_3_SOC1	33	32	9.3	5.4	58	8.2	4.1	1.4	4.8	13.5	25.1
SOLcliTXT	WET_T3_3_SOC2	29	28	10.8	5.5	50	10.3	4.5	1.8	6.0	15.3	24.2
SOLcliTXT	WET_T3_3_SOC3	26	26	16.0	8.1	50	15.1	4.9	3.4	9.9	20.0	31.7
SOLcliTXT	WET_T4_2_SOC1	17	16	1.9	0.9	47	1.6	0.6	0.6	1.3	2.5	4.1
SOLcliTXT	WET_T4_2_SOC2	17	17	2.9	1.6	55	2.6	1.1	0.9	1.6	4.1	6.8
SOLcliTXT	WET_T4_2_SOC3	15	15	4.6	2.6	56	3.7	1.8	1.9	2.0	6.7	9.5

IPCCcase	LONGID	NO	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliTXT	WET_T4_3_SOC1	14	13	3.4	2.1	64	2.8	1.3	1.0	1.6	4.9	8.0
SOLcliTXT	WET_T4_3_SOC2	14	13	4.8	2.8	58	4.3	2.1	1.5	2.6	7.1	11.2
SOLcliTXT	WET_T4_3_SOC3	9	8	7.9	4.0	51	6.4	2.5	3.4	4.7	12.2	14.4
SOLcliTXT	WET_W1_2_SOC1	12	12	11.1	7.1	64	9.4	4.4	0.7	5.7	16.1	26.1
SOLcliTXT	WET_W1_2_SOC2	12	12	15.3	10.7	70	13.3	5.8	1.1	7.6	21.7	41.7
SOLcliTXT	WET_W1_2_SOC3	11	11	20.1	15.4	76	14.9	6.6	2.0	10.5	30.4	57.1
SOLcliTXT	WET_W1_3_SOC1	15	15	16.0	11.8	74	11.4	7.0	3.4	6.1	27.9	38.6
SOLcliTXT	WET_W1_3_SOC2	15	15	23.8	19.0	80	16.1	10.6	5.3	7.9	38.6	63.4
SOLcliTXT	WET_W1_3_SOC3	13	13	38.2	32.0	84	20.8	14.1	6.7	10.1	63.1	103.3
SOLcliTXT	WET_W2_2_SOC1	6	6	8.0	5.1	64	6.8	3.0	2.3	4.1	12.2	16.8
SOLcliTXT	WET_W2_2_SOC2	6	6	11.3	7.0	62	10.5	3.7	3.0	5.6	16.2	23.3
SOLcliTXT	WET_W2_3_SOC1	42	42	7.4	4.5	61	6.7	3.3	1.0	3.3	10.2	17.1
SOLcliTXT	WET_W2_3_SOC2	41	41	11.2	6.9	62	10.7	6.0	1.3	4.6	16.8	27.2
SOLcliTXT	WET_W2_3_SOC3	41	40	16.4	10.6	64	13.5	8.3	1.9	6.0	24.1	36.0
SOLcliVEG1	HAC_Bx_A_SOC1	16	15	5.8	3.5	60	5.7	2.2	1.4	2.2	7.5	12.3
SOLcliVEG1	HAC_Bx_A_SOC2	16	15	7.7	4.3	56	8.3	4.1	1.6	3.4	12.4	14.2
SOLcliVEG1	HAC_Bx_B_SOC1	9	9	6.1	2.0	32	5.8	0.5	2.3	5.4	7.8	9.1
SOLcliVEG1	HAC_Bx_B_SOC2	9	9	9.1	4.0	44	8.3	1.9	3.8	6.2	11.8	16.5
SOLcliVEG1	HAC_C1_A_SOC1	160	150	8.9	4.6	51	7.8	3.3	1.2	5.4	11.8	23.1
SOLcliVEG1	HAC_C1_A_SOC2	155	150	11.2	5.9	53	10.1	3.8	1.4	6.6	14.9	29.0
SOLcliVEG1	HAC_C1_A_SOC3	121	115	12.3	5.7	46	11.3	3.5	1.9	8.5	16.2	28.3
SOLcliVEG1	HAC_C1_B_SOC1	9	9	6.3	3.5	55	5.4	3.1	1.7	3.7	8.6	13.0
SOLcliVEG1	HAC_C1_B_SOC2	9	9	7.9	3.9	49	7.0	3.3	2.3	4.8	10.9	14.2
SOLcliVEG1	HAC_C1_B_SOC3	8	8	9.0	4.3	48	8.8	3.7	2.9	4.9	12.5	15.7
SOLcliVEG1	HAC_C1_C_SOC1	25	25	7.8	3.8	49	8.2	3.0	1.1	4.1	11.2	14.1
SOLcliVEG1	HAC_C1_C_SOC2	24	24	10.8	5.1	47	10.9	3.8	1.5	6.2	13.8	21.1
SOLcliVEG1	HAC_C1_C_SOC3	22	22	14.2	7.7	54	14.3	5.8	2.1	8.2	19.4	34.2
SOLcliVEG1	HAC_C2_B_SOC1	32	31	4.0	2.6	65	3.1	1.7	0.8	1.9	5.9	10.6
SOLcliVEG1	HAC_C2_B_SOC2	30	29	5.9	3.8	65	4.7	2.4	1.4	2.5	7.9	16.3
SOLcliVEG1	HAC_C2_B_SOC3	24	22	8.6	5.2	60	7.3	3.5	2.9	4.3	11.3	22.7
SOLcliVEG1	HAC_C2_C_SOC1	36	34	4.9	2.8	56	4.8	1.6	0.9	2.3	6.3	11.4
SOLcliVEG1	HAC_C2_C_SOC2	34	33	7.4	4.5	60	7.1	2.3	1.1	3.7	9.3	18.6
SOLcliVEG1	HAC_C2_C_SOC3	30	28	10.1	5.2	51	9.3	3.3	2.5	7.0	14.2	25.1
SOLcliVEG1	HAC_Px_B_SOC1	7	6	4.0	2.9	74	2.6	0.6	1.9	2.0	6.3	9.4
SOLcliVEG1	HAC_Px_B_SOC2	7	6	5.4	3.0	56	3.9	0.6	3.2	3.3	8.2	10.7
SOLcliVEG1	HAC_T1_A_SOC1	26	23	5.5	2.3	42	5.7	1.9	1.8	3.0	7.1	9.6
SOLcliVEG1	HAC_T1_A_SOC2	26	24	8.4	4.4	52	8.3	2.9	2.7	4.5	11.3	20.8
SOLcliVEG1	HAC_T1_A_SOC3	24	23	13.6	7.5	55	13.3	5.6	3.5	6.9	17.7	28.2
SOLcliVEG1	HAC_T1_B_SOC1	6	6	3.7	2.9	79	3.1	1.3	1.1	1.5	5.3	9.0
SOLcliVEG1	HAC_T1_C_SOC1	13	13	5.7	2.9	50	5.2	2.3	1.6	3.4	7.7	11.3
SOLcliVEG1	HAC_T1_C_SOC2	13	13	8.1	3.7	46	7.9	2.2	2.4	5.1	10.8	14.6
SOLcliVEG1	HAC_T1_C_SOC3	11	11	12.2	5.8	48	11.5	3.7	3.1	7.8	16.7	22.6
SOLcliVEG1	HAC_T2_A_SOC1	68	65	5.5	2.5	46	5.0	1.5	1.5	3.7	6.9	11.9
SOLcliVEG1	HAC_T2_A_SOC2	65	64	7.6	3.3	44	6.8	2.0	2.3	4.9	9.4	16.2
SOLcliVEG1	HAC_T2_A_SOC3	51	47	9.1	3.5	39	8.1	2.2	3.7	6.8	11.4	18.9
SOLcliVEG1	HAC_T2_B_SOC1	6	6	6.0	2.7	46	6.2	2.1	2.5	3.4	8.4	9.7
SOLcliVEG1	HAC_T2_C_SOC1	9	9	5.0	3.2	65	3.7	2.2	1.2	2.4	7.2	11.4
SOLcliVEG1	HAC_T2_C_SOC2	8	8	7.2	5.1	71	6.7	3.0	2.0	2.5	9.8	16.9
SOLcliVEG1	HAC_T2_C_SOC3	7	7	13.0	11.5	88	11.7	6.2	2.9	3.7	17.0	36.1
SOLcliVEG1	HAC_T3_A_SOC1	68	60	4.2	2.4	56	3.9	1.5	0.3	2.4	5.5	10.6
SOLcliVEG1	HAC_T3_A_SOC2	64	58	5.8	3.4	58	5.1	2.2	0.5	3.3	7.6	15.7
SOLcliVEG1	HAC_T3_A_SOC3	54	48	7.5	4.0	53	6.9	2.7	0.6	4.3	9.8	17.1

IPCCcase	LONGID	N0	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliVEG1	HAC_T3_B_SOC1	9	9	4.6	2.8	62	3.7	2.1	0.6	2.3	7.2	8.7
SOLcliVEG1	HAC_T3_B_SOC2	9	9	5.7	3.2	56	5.0	2.6	0.6	3.1	8.9	9.9
SOLcliVEG1	HAC_T3_C_SOC1	24	22	3.9	1.9	48	3.0	0.6	2.1	2.7	4.8	8.5
SOLcliVEG1	HAC_T3_C_SOC2	22	18	4.5	1.0	23	4.1	0.6	3.2	3.9	5.0	7.0
SOLcliVEG1	HAC_T3_C_SOC3	18	17	7.8	2.9	37	6.8	1.0	4.3	5.9	9.3	15.5
SOLcliVEG1	HAC_T4_A_SOC1	34	33	3.8	2.4	63	3.1	1.3	0.5	1.9	5.4	10.5
SOLcliVEG1	HAC_T4_A_SOC2	32	31	5.4	3.2	60	4.2	1.9	1.2	2.7	7.8	13.2
SOLcliVEG1	HAC_T4_A_SOC3	23	23	7.3	3.8	52	6.1	2.5	2.4	4.2	10.7	14.8
SOLcliVEG1	HAC_T4_B_SOC1	44	44	2.5	1.6	63	2.7	1.1	0.2	1.1	3.4	6.4
SOLcliVEG1	HAC_T4_B_SOC2	43	43	3.7	2.2	58	3.7	1.4	0.3	1.8	5.0	8.5
SOLcliVEG1	HAC_T4_B_SOC3	32	32	6.6	3.6	54	6.8	2.2	0.5	3.3	8.7	15.9
SOLcliVEG1	HAC_T4_C_SOC1	40	39	2.7	1.5	57	2.3	0.7	0.5	1.6	3.6	6.7
SOLcliVEG1	HAC_T4_C_SOC2	38	36	3.8	1.8	48	3.5	0.8	0.8	2.8	4.5	8.4
SOLcliVEG1	HAC_T4_C_SOC3	35	33	6.2	2.7	44	6.4	1.5	1.1	4.1	7.9	12.4
SOLcliVEG1	HAC_W1_A_SOC1	138	131	6.3	3.4	53	5.9	2.2	0.9	4.0	8.5	16.3
SOLcliVEG1	HAC_W1_A_SOC2	131	122	8.1	4.4	54	7.4	2.8	1.2	5.0	10.4	21.1
SOLcliVEG1	HAC_W1_A_SOC3	101	92	9.7	4.6	48	9.1	2.6	1.4	6.5	11.8	23.2
SOLcliVEG1	HAC_W1_B_SOC1	18	17	7.3	4.7	64	6.5	2.7	1.2	3.8	9.6	20.2
SOLcliVEG1	HAC_W1_B_SOC2	16	16	11.9	8.1	68	9.5	4.3	1.8	5.6	15.9	31.2
SOLcliVEG1	HAC_W1_B_SOC3	7	7	12.5	8.0	64	10.7	3.2	3.0	7.5	18.1	27.0
SOLcliVEG1	HAC_W1_C_SOC1	55	54	7.9	4.5	56	6.9	3.0	1.1	4.1	10.8	19.3
SOLcliVEG1	HAC_W1_C_SOC2	52	51	10.5	6.5	62	8.1	3.1	1.7	5.5	14.0	28.1
SOLcliVEG1	HAC_W1_C_SOC3	45	44	13.2	8.4	64	9.8	3.2	3.0	7.2	18.3	35.1
SOLcliVEG1	HAC_W2_A_SOC1	81	75	3.2	2.1	65	2.6	1.3	0.4	1.6	4.4	8.9
SOLcliVEG1	HAC_W2_A_SOC2	78	73	4.3	2.5	60	3.8	1.6	0.8	2.3	6.0	11.8
SOLcliVEG1	HAC_W2_A_SOC3	59	56	6.3	3.4	54	5.8	2.2	1.9	3.9	8.3	14.9
SOLcliVEG1	HAC_W2_B_SOC1	320	306	1.7	1.0	60	1.5	0.8	0.1	0.9	2.4	4.8
SOLcliVEG1	HAC_W2_B_SOC2	315	302	2.6	1.5	58	2.4	1.0	0.2	1.4	3.4	6.9
SOLcliVEG1	HAC_W2_B_SOC3	226	216	4.1	2.1	52	3.9	1.4	0.7	2.4	5.3	9.8
SOLcliVEG1	HAC_W2_C_SOC1	103	101	2.5	1.3	54	2.1	0.8	0.4	1.5	3.6	6.9
SOLcliVEG1	HAC_W2_C_SOC2	100	96	3.4	1.7	50	3.0	1.1	0.7	2.1	4.5	8.0
SOLcliVEG1	HAC_W2_C_SOC3	72	68	5.0	2.4	49	4.8	2.0	1.7	2.8	6.8	10.5
SOLcliVEG1	LAC_T1_A_SOC1	31	29	4.9	2.5	52	4.4	1.7	1.3	2.8	6.3	10.7
SOLcliVEG1	LAC_T1_A_SOC2	31	29	6.4	3.2	50	5.8	2.4	1.7	3.7	8.5	13.9
SOLcliVEG1	LAC_T1_A_SOC3	29	27	9.1	4.5	50	8.9	3.1	2.3	5.7	11.5	20.8
SOLcliVEG1	LAC_T1_B_SOC1	6	6	4.2	2.1	51	4.4	1.9	1.7	1.8	6.3	6.5
SOLcliVEG1	LAC_T1_B_SOC2	6	6	5.8	3.2	55	6.2	2.8	2.2	2.3	8.9	9.4
SOLcliVEG1	LAC_T1_B_SOC3	6	6	8.8	5.1	59	9.4	4.4	3.0	3.2	13.6	14.1
SOLcliVEG1	LAC_T2_A_SOC1	171	166	5.1	2.4	47	4.6	1.5	1.3	3.3	6.9	13.0
SOLcliVEG1	LAC_T2_A_SOC2	169	163	6.8	2.9	42	6.3	2.0	1.8	4.5	8.6	15.4
SOLcliVEG1	LAC_T2_A_SOC3	161	154	9.5	3.6	38	9.0	2.7	2.7	6.6	11.9	19.7
SOLcliVEG1	LAC_T2_B_SOC1	6	6	7.0	3.8	55	6.6	3.5	2.7	3.1	11.3	11.9
SOLcliVEG1	LAC_T2_B_SOC2	6	6	9.6	5.0	53	9.6	4.7	3.7	4.2	14.4	16.5
SOLcliVEG1	LAC_T2_B_SOC3	6	6	13.2	6.7	51	14.5	4.9	5.3	5.8	17.7	23.1
SOLcliVEG1	LAC_T2_C_SOC1	21	21	7.7	3.2	42	7.3	2.6	2.6	5.5	9.9	15.7
SOLcliVEG1	LAC_T2_C_SOC2	21	21	10.0	3.9	39	9.8	2.9	3.6	6.9	12.8	19.9
SOLcliVEG1	LAC_T2_C_SOC3	17	17	11.8	3.9	33	12.8	3.4	5.2	8.5	14.6	16.7
SOLcliVEG1	LAC_T3_A_SOC1	119	111	3.9	1.7	44	3.3	1.0	1.4	2.5	5.0	9.2
SOLcliVEG1	LAC_T3_A_SOC2	119	113	5.2	2.3	44	4.7	1.5	2.0	3.5	6.6	11.6
SOLcliVEG1	LAC_T3_A_SOC3	105	100	7.4	3.0	40	6.8	1.8	2.7	5.3	9.2	16.6
SOLcliVEG1	LAC_T3_B_SOC1	17	17	4.0	1.9	48	3.6	1.4	1.1	2.5	5.4	7.7
SOLcliVEG1	LAC_T3_B_SOC2	17	17	5.3	2.3	44	4.9	1.7	1.8	3.5	7.4	9.8

IPCCcase	LONGID	NO	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliVEG1	LAC_T3_B_SOC3	17	17	7.3	2.7	37	6.7	2.3	2.8	5.4	9.8	11.8
SOLcliVEG1	LAC_T3_C_SOC1	47	43	3.6	2.2	62	3.0	1.1	0.7	2.2	4.9	9.8
SOLcliVEG1	LAC_T3_C_SOC2	47	46	5.7	4.1	71	4.2	1.9	0.9	3.0	7.8	15.5
SOLcliVEG1	LAC_T3_C_SOC3	46	45	8.6	6.2	73	5.9	2.3	1.1	4.0	11.8	23.6
SOLcliVEG1	LAC_T4_A_SOC1	10	9	2.3	1.2	51	2.0	0.6	1.0	1.5	2.7	5.1
SOLcliVEG1	LAC_T4_A_SOC2	10	9	3.3	1.6	48	3.0	0.7	1.4	2.2	3.8	6.9
SOLcliVEG1	LAC_T4_A_SOC3	10	9	4.9	2.2	46	4.8	1.0	2.2	3.0	5.8	9.8
SOLcliVEG1	LAC_W1_A_SOC1	88	86	5.5	3.5	64	4.4	1.8	0.3	2.9	7.6	14.2
SOLcliVEG1	LAC_W1_A_SOC2	88	84	6.8	4.3	63	5.8	2.3	0.4	3.6	9.0	18.2
SOLcliVEG1	LAC_W1_A_SOC3	81	75	8.7	5.3	61	7.7	2.7	0.5	5.1	10.8	22.4
SOLcliVEG1	LAC_W1_C_SOC1	19	17	8.1	1.7	21	8.2	1.1	4.1	6.8	9.4	11.5
SOLcliVEG1	LAC_W1_C_SOC2	19	17	11.0	2.2	20	11.4	1.4	6.1	9.6	12.6	14.9
SOLcliVEG1	LAC_W1_C_SOC3	17	15	14.8	2.9	20	14.9	2.1	9.6	12.5	16.8	20.1
SOLcliVEG1	LAC_W2_A_SOC1	14	13	3.2	1.6	50	3.3	1.1	0.8	2.0	4.3	6.1
SOLcliVEG1	LAC_W2_A_SOC2	14	13	4.1	1.8	44	4.0	1.1	1.1	3.0	5.4	7.2
SOLcliVEG1	LAC_W2_A_SOC3	12	11	5.5	2.3	41	4.9	1.2	1.8	4.0	7.4	9.1
SOLcliVEG1	LAC_W2_B_SOC1	20	20	1.4	0.5	37	1.3	0.4	0.5	0.9	1.8	2.5
SOLcliVEG1	LAC_W2_B_SOC2	20	20	2.1	0.7	32	2.2	0.6	1.0	1.4	2.4	3.5
SOLcliVEG1	LAC_W2_B_SOC3	16	16	3.5	1.1	32	3.3	0.8	1.6	2.6	4.4	5.7
SOLcliVEG1	ORG_C1_C_SOC1	16	14	36.2	12.8	35	35.5	8.0	14.6	28.1	47.0	56.3
SOLcliVEG1	ORG_C1_C_SOC2	15	13	55.3	20.0	36	57.1	13.0	17.1	41.6	69.3	93.5
SOLcliVEG1	ORG_C1_C_SOC3	14	13	104.6	39.4	38	110.8	22.6	21.7	79.2	127.1	167.0
SOLcliVEG1	POD_C1_A_SOC1	29	28	12.5	6.6	53	11.1	4.2	3.1	7.1	16.1	30.3
SOLcliVEG1	POD_C1_A_SOC2	27	27	19.2	11.5	60	15.6	6.4	3.2	10.7	26.1	44.0
SOLcliVEG1	POD_C1_A_SOC3	17	17	27.7	23.9	86	17.2	8.1	3.4	12.3	44.9	88.7
SOLcliVEG1	SAN_C1_A_SOC1	58	54	6.5	5.7	88	4.3	2.1	0.5	2.3	8.6	22.7
SOLcliVEG1	SAN_C1_A_SOC2	57	52	7.5	6.3	83	5.4	2.6	1.1	3.2	9.3	25.0
SOLcliVEG1	SAN_C1_A_SOC3	48	43	7.4	5.2	70	5.7	2.5	1.8	3.7	9.9	23.9
SOLcliVEG1	SAN_C1_B_SOC1	9	9	3.7	3.3	90	2.8	2.2	0.2	0.6	7.4	8.8
SOLcliVEG1	SAN_C1_B_SOC2	7	7	5.9	4.1	68	4.1	3.3	0.8	3.0	9.7	11.3
SOLcliVEG1	SAN_C1_C_SOC1	8	8	8.2	7.5	92	5.8	3.3	2.1	2.6	12.0	24.4
SOLcliVEG1	SAN_C1_C_SOC2	7	7	8.1	5.4	67	6.6	3.5	2.8	3.1	11.1	18.5
SOLcliVEG1	SAN_T2_A_SOC1	18	16	5.0	2.3	46	5.3	1.3	1.3	3.7	6.4	10.2
SOLcliVEG1	San_T2_A_SOC2	18	17	6.4	3.0	46	6.6	1.2	1.9	4.6	7.7	12.2
SOLcliVEG1	SAN_T2_A_SOC3	16	15	8.9	5.1	58	7.8	3.4	2.7	4.4	12.6	19.4
SOLcliVEG1	SAN_T3_A_SOC1	23	22	3.3	1.7	50	3.3	1.2	1.3	2.1	3.9	7.1
SOLcliVEG1	SAN_T3_A_SOC2	22	21	4.3	2.2	52	4.0	1.3	1.6	2.5	5.1	9.6
SOLcliVEG1	SAN_T3_A_SOC3	20	20	7.2	4.6	64	5.8	2.4	2.5	3.5	9.0	17.0
SOLcliVEG1	San_T3_C_SOC1	9	9	3.8	2.6	70	2.4	1.3	1.1	1.5	6.4	8.0
SOLcliVEG1	San_T3_C_SOC2	9	9	5.0	3.4	68	3.3	1.6	1.4	2.2	9.2	9.9
SOLcliVEG1	San_T3_C_SOC3	9	9	6.7	4.3	64	5.1	2.4	1.8	3.5	11.5	13.4
SOLcliVEG1	SAN_T4_B_SOC1	8	8	1.1	0.6	50	1.2	0.3	0.2	0.8	1.5	2.1
SOLcliVEG1	SAN_T4_B_SOC2	8	8	1.5	0.8	52	1.3	0.5	0.3	1.0	2.1	2.8
SOLcliVEG1	SAN_T4_B_SOC3	7	7	2.7	1.3	49	2.2	1.0	1.2	1.5	4.1	4.5
SOLcliVEG1	SAN_T4_C_SOC1	9	9	0.9	0.6	66	0.9	0.4	0.1	0.3	1.4	1.8
SOLcliVEG1	SAN_T4_C_SOC2	9	9	1.3	0.8	61	1.4	0.6	0.2	0.6	1.9	2.6
SOLcliVEG1	SAN_T4_C_SOC3	9	9	2.0	1.2	59	2.2	0.7	0.4	1.0	2.8	4.1
SOLcliVEG1	SAN_W1_A_SOC1	18	16	4.3	2.8	66	3.1	1.3	1.4	2.0	6.1	10.1
SOLcliVEG1	SAN_W1_A_SOC2	18	16	5.4	3.5	65	3.8	1.4	1.5	2.6	8.9	12.1
SOLcliVEG1	SAN_W1_A_SOC3	14	13	6.0	3.2	53	4.7	1.1	1.7	3.9	9.2	12.1
SOLcliVEG1	SAN_W2_A_SOC1	35	32	1.3	0.5	38	1.3	0.4	0.3	0.9	1.7	2.2
SOLcliVEG1	SAN_W2_A_SOC2	35	32	1.8	0.6	34	1.8	0.4	0.4	1.3	2.3	2.9

IPCCcase	LONGID	N0	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliVEG1	SAN_W2_A_SOC3	32	30	2.8	0.9	31	2.8	0.6	0.7	2.1	3.4	4.4
SOLcliVEG1	SAN_W2_B_SOC1	195	184	0.9	0.4	43	0.9	0.3	0.1	0.6	1.2	1.9
SOLcliVEG1	SAN_W2_B_SOC2	192	185	1.4	0.6	40	1.3	0.4	0.1	1.0	1.8	2.9
SOLcliVEG1	SAN_W2_B_SOC3	187	182	2.4	0.9	36	2.1	0.5	0.2	1.8	2.9	4.7
SOLcliVEG1	SAN_W2_C_SOC1	54	52	1.1	0.4	37	1.0	0.3	0.4	0.8	1.3	2.1
SOLcliVEG1	SAN_W2_C_SOC2	54	53	1.6	0.6	36	1.5	0.4	0.7	1.2	2.0	3.0
SOLcliVEG1	SAN_W2_C_SOC3	51	49	2.5	0.7	28	2.4	0.4	1.5	1.9	2.8	4.2
SOLcliVEG1	VOL_C1_A_SOC1	20	19	13.5	5.2	38	13.9	3.0	4.3	10.9	17.0	23.1
SOLcliVEG1	VOL_C1_A_SOC2	20	19	19.0	7.4	39	18.9	4.9	5.1	15.2	24.8	31.2
SOLcliVEG1	VOL_C1_A_SOC3	16	16	22.6	8.7	39	22.7	5.9	6.4	18.5	30.1	34.3
SOLcliVEG1	VOL_T2_A_SOC1	8	8	6.7	4.5	66	5.7	1.5	1.4	3.9	9.6	15.6
SOLcliVEG1	VOL_T2_A_SOC2	8	7	7.0	3.4	49	7.3	1.3	2.1	5.0	7.7	13.4
SOLcliVEG1	VOL_T2_A_SOC3	8	7	9.8	3.7	38	9.6	2.0	4.4	7.6	12.0	16.2
SOLcliVEG1	VOL_W1_A_SOC1	15	13	14.0	4.1	29	15.4	1.4	4.4	11.6	16.5	19.1
SOLcliVEG1	VOL_W1_A_SOC2	15	14	18.5	7.1	38	20.8	4.7	4.3	13.6	24.5	26.4
SOLcliVEG1	VOL_W1_A_SOC3	14	13	28.8	14.1	49	28.8	6.4	6.7	18.9	33.3	61.5
SOLcliVEG1	VOL_W1_C_SOC1	9	9	12.1	3.2	27	13.8	2.8	8.4	8.8	14.6	16.6
SOLcliVEG1	VOL_W1_C_SOC2	9	9	18.5	5.6	30	20.2	3.4	11.2	12.1	23.4	24.7
SOLcliVEG1	VOL_W1_C_SOC3	8	8	31.2	11.0	35	33.3	6.4	14.1	20.2	39.9	45.8
SOLcliVEG1	WET_C1_A_SOC1	8	8	16.0	4.5	28	14.8	2.7	10.8	12.8	19.5	24.2
SOLcliVEG1	WET_C1_A_SOC2	8	7	17.6	2.9	17	16.6	1.0	13.7	15.7	21.3	21.6
SOLcliVEG1	WET_C1_A_SOC3	8	7	20.0	3.1	15	21.0	1.6	14.4	17.8	22.6	23.2
SOLcliVEG1	WET_C1_C_SOC1	7	7	17.2	7.2	42	16.9	6.4	8.0	10.5	24.3	27.0
SOLcliVEG1	WET_C1_C_SOC2	7	7	19.3	7.2	37	19.9	6.5	9.8	12.7	26.4	28.1
SOLcliVEG1	WET_C1_C_SOC3	7	7	20.7	6.9	33	21.3	6.5	11.5	14.8	27.9	28.9
SOLcliVEG1	WET_T1_C_SOC1	6	6	9.8	9.3	95	7.8	5.7	1.3	2.4	16.9	25.2
SOLcliVEG1	WET_T2_A_SOC1	14	13	5.5	2.3	42	5.0	1.3	2.2	3.8	7.1	9.7
SOLcliVEG1	WET_T2_A_SOC2	14	13	7.5	3.9	53	5.9	1.5	3.3	4.8	9.1	18.1
SOLcliVEG1	WET_T2_A_SOC3	12	10	8.9	3.3	37	7.2	1.5	4.9	6.5	11.8	14.7
SOLcliVEG1	WET_T3_A_SOC1	14	14	5.6	4.1	73	4.1	1.5	1.1	2.7	9.0	15.5
SOLcliVEG1	WET_T3_A_SOC2	14	14	7.3	5.3	72	5.4	2.2	1.4	3.4	11.4	19.2
SOLcliVEG1	WET_T3_A_SOC3	13	13	10.2	6.8	67	6.9	2.4	2.0	5.8	14.8	23.5
SOLcliVEG1	WET_T3_C_SOC1	9	9	8.7	7.8	90	5.9	2.9	1.6	3.3	13.9	25.1
SOLcliVEG1	WET_T3_C_SOC2	9	9	11.5	10.7	94	8.7	4.2	2.3	3.9	18.0	33.9
SOLcliVEG1	WET_T3_C_SOC3	6	6	13.4	10.0	74	10.2	5.0	3.8	5.9	22.1	30.1
SOLcliVEG1	WET_W2_B_SOC1	18	18	7.0	4.7	66	5.3	2.8	2.3	3.3	10.1	17.1
SOLcliVEG1	WET_W2_B_SOC2	17	17	11.3	7.5	67	11.1	6.4	3.0	4.6	16.9	27.2
SOLcliVEG1	WET_W2_B_SOC3	17	16	15.3	9.9	65	13.5	8.8	4.0	5.9	24.1	32.3
SOLcliVEG1	WET_W2_C_SOC1	12	12	8.9	3.6	40	8.8	2.6	2.6	6.5	12.5	14.2
SOLcliVEG1	WET_W2_C_SOC2	12	12	13.7	5.3	38	13.6	4.4	3.9	9.3	18.5	20.9
SOLcliVEG1	WET_W2_C_SOC3	12	12	23.1	9.8	42	23.0	7.4	6.1	14.1	33.3	36.0
SOLcliVEG2	HAC_Bx_AE_SOC1	12	11	4.7	2.7	57	5.5	2.0	1.4	2.1	7.0	8.8
SOLcliVEG2	HAC_Bx_AE_SOC2	12	11	6.8	4.3	63	7.9	4.5	1.6	2.4	9.6	14.2
SOLcliVEG2	HAC_Bx_BT_SOC1	8	8	6.0	2.1	35	5.8	0.4	2.3	5.3	7.9	9.1
SOLcliVEG2	HAC_Bx_BT_SOC2	8	8	9.2	4.3	47	8.5	2.3	3.8	6.0	13.0	16.5
SOLcliVEG2	HAC_C1_AE_SOC1	31	30	7.9	4.6	58	7.0	3.5	1.3	4.4	11.0	18.2
SOLcliVEG2	HAC_C1_AE_SOC2	28	27	9.4	4.8	51	8.3	3.0	2.2	6.3	14.0	18.1
SOLcliVEG2	HAC_C1_AE_SOC3	22	22	11.6	6.0	51	10.0	4.2	3.2	7.2	16.9	25.5
SOLcliVEG2	HAC_C1_Au_SOC1	12	12	15.6	11.3	73	12.5	6.9	2.8	6.8	22.3	40.9
SOLcliVEG2	HAC_C1_Au_SOC2	11	11	16.0	10.2	64	14.7	7.7	3.2	7.0	23.6	36.8
SOLcliVEG2	HAC_C1_Au_SOC3	8	8	14.6	8.9	61	15.0	4.8	4.2	6.4	18.4	32.3
SOLcliVEG2	HAC_C1_AY_SOC1	116	109	8.9	4.3	48	7.8	2.9	1.2	5.5	12.0	20.6

IPCCcase	LONGID	NO	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliVEG2	HAC_C1_AY_SOC2	115	111	11.2	5.8	52	10.1	3.7	1.4	6.6	14.9	29.0
SOLcliVEG2	HAC_C1_AY_SOC3	90	85	12.4	5.7	46	11.4	3.1	1.9	8.6	15.1	28.3
SOLcliVEG2	HAC_C1_BY_SOC1	9	9	6.3	3.5	55	5.4	3.1	1.7	3.7	8.6	13.0
SOLcliVEG2	HAC_C1_BY_SOC2	9	9	7.9	3.9	49	7.0	3.3	2.3	4.8	10.9	14.2
SOLcliVEG2	HAC_C1_BY_SOC3	8	8	9.0	4.3	48	8.8	3.7	2.9	4.9	12.5	15.7
SOLcliVEG2	HAC_C1_CG_SOC1	19	19	7.3	3.4	46	7.6	2.6	1.1	4.4	9.3	13.4
SOLcliVEG2	HAC_C1_CG_SOC2	19	19	10.3	5.1	50	10.2	3.8	1.5	6.2	13.3	21.1
SOLcliVEG2	HAC_C1_CG_SOC3	18	18	14.4	8.1	56	14.0	5.6	2.1	8.2	19.8	34.2
SOLcliVEG2	HAC_C2_BX_SOC1	14	14	2.9	1.9	65	2.1	0.7	1.1	1.4	4.6	7.0
SOLcliVEG2	HAC_C2_BX_SOC2	13	13	4.2	2.3	56	3.1	0.9	2.1	2.3	6.3	8.6
SOLcliVEG2	HAC_C2_BX_SOC3	9	9	6.3	2.9	46	6.0	1.6	2.9	4.2	8.7	11.4
SOLcliVEG2	HAC_C2_BY_SOC1	18	17	5.0	2.8	57	4.3	1.9	0.8	2.9	7.1	10.6
SOLcliVEG2	HAC_C2_BY_SOC2	17	16	7.3	4.3	59	6.1	2.7	1.4	4.5	10.3	16.3
SOLcliVEG2	HAC_C2_BY_SOC3	15	14	11.3	7.2	64	10.2	4.1	3.1	5.3	15.1	27.0
SOLcliVEG2	HAC_C2_CG_SOC1	35	33	4.9	2.8	57	4.8	1.9	0.9	2.3	6.4	11.4
SOLcliVEG2	HAC_C2_CG_SOC2	33	32	7.4	4.5	61	6.8	2.5	1.1	3.3	9.3	18.6
SOLcliVEG2	HAC_C2_CG_SOC3	29	27	10.0	5.3	53	9.2	3.5	2.5	6.8	14.7	25.1
SOLcliVEG2	HAC_Px_BT_SOC1	7	6	4.0	2.9	74	2.6	0.6	1.9	2.0	6.3	9.4
SOLcliVEG2	HAC_Px_BT_SOC2	7	6	5.4	3.0	56	3.9	0.6	3.2	3.3	8.2	10.7
SOLcliVEG2	HAC_T1_AY_SOC1	23	22	5.6	2.4	43	5.9	2.0	1.8	3.0	7.2	9.6
SOLcliVEG2	HAC_T1_AY_SOC2	23	23	8.5	4.6	54	8.5	3.1	2.7	4.1	11.6	21.9
SOLcliVEG2	HAC_T1_AY_SOC3	22	22	13.0	7.1	54	12.9	5.1	3.5	6.7	16.6	28.2
SOLcliVEG2	HAC_T1_BY_SOC1	6	6	3.7	2.9	79	3.1	1.3	1.1	1.5	5.3	9.0
SOLcliVEG2	HAC_T1_CG_SOC1	11	11	4.8	2.1	43	5.0	1.3	1.6	2.5	6.3	7.8
SOLcliVEG2	HAC_T1_CG_SOC2	11	11	7.0	2.8	41	7.2	1.8	2.4	3.8	9.0	11.4
SOLcliVEG2	HAC_T1_CG_SOC3	9	9	10.6	4.8	46	11.5	1.7	3.1	6.4	12.9	19.5
SOLcliVEG2	HAC_T2_AE_SOC1	57	56	5.9	2.9	49	5.2	1.7	1.5	3.7	7.0	12.9
SOLcliVEG2	HAC_T2_AE_SOC2	55	53	7.6	3.3	43	6.8	2.0	2.3	5.1	9.4	15.5
SOLcliVEG2	HAC_T2_AE_SOC3	43	40	9.5	3.9	41	8.6	1.8	3.7	6.9	11.5	19.9
SOLcliVEG2	HAC_T2_AY_SOC1	9	8	3.6	0.8	21	3.8	0.3	2.2	3.1	4.1	4.8
SOLcliVEG2	HAC_T2_AY_SOC2	8	8	5.6	2.2	39	5.1	0.6	3.3	4.3	6.8	10.3
SOLcliVEG2	HAC_T2_AY_SOC3	7	6	6.6	1.0	15	6.9	0.6	5.0	5.7	7.5	7.6
SOLcliVEG2	HAC_T2_CG_SOC1	7	7	3.9	2.4	61	3.6	2.1	1.2	1.5	6.8	7.5
SOLcliVEG2	HAC_T2_CG_SOC2	6	6	5.2	3.5	67	4.1	2.1	2.0	2.0	9.3	10.0
SOLcliVEG2	HAC_T3_AE_SOC1	23	23	8.2	5.7	70	5.7	4.3	0.3	3.4	11.7	20.7
SOLcliVEG2	HAC_T3_AE_SOC2	22	22	11.2	8.3	74	8.4	4.8	0.5	4.9	16.7	32.2
SOLcliVEG2	HAC_T3_AE_SOC3	17	17	16.0	12.7	80	12.1	5.5	0.6	7.1	26.1	47.6
SOLcliVEG2	HAC_T3_AY_SOC1	45	44	3.9	1.8	47	3.7	1.5	1.2	2.2	5.2	8.6
SOLcliVEG2	HAC_T3_AY_SOC2	42	41	5.1	2.5	49	4.9	2.1	1.5	2.7	7.2	10.3
SOLcliVEG2	HAC_T3_AY_SOC3	37	36	6.9	3.4	49	6.3	2.7	1.8	4.0	9.4	15.5
SOLcliVEG2	HAC_T3_BY_SOC1	6	6	3.7	1.9	52	3.6	1.4	0.6	2.4	5.8	5.8
SOLcliVEG2	HAC_T3_BY_SOC2	6	6	4.9	2.6	53	4.9	1.8	0.6	3.0	7.4	7.8
SOLcliVEG2	HAC_T3_CG_SOC1	24	22	3.9	1.9	48	3.0	0.6	2.1	2.7	4.8	8.5
SOLcliVEG2	HAC_T3_CG_SOC2	22	18	4.5	1.0	23	4.1	0.6	3.2	3.9	5.0	7.0
SOLcliVEG2	HAC_T3_CG_SOC3	18	17	7.8	2.9	37	6.8	1.0	4.3	5.9	9.3	15.5
SOLcliVEG2	HAC_T4_AX_SOC1	8	8	2.4	1.9	79	1.9	0.9	0.5	1.0	3.6	6.4
SOLcliVEG2	HAC_T4_AX_SOC2	7	7	3.6	2.6	72	2.8	1.4	1.2	1.4	6.5	7.8
SOLcliVEG2	HAC_T4_AX_SOC3	6	6	5.3	3.7	71	4.1	1.5	2.4	2.5	7.7	12.4
SOLcliVEG2	HAC_T4_AY_SOC1	24	24	4.2	2.4	56	3.5	1.5	1.7	2.4	6.2	10.5
SOLcliVEG2	HAC_T4_AY_SOC2	23	23	6.0	3.3	55	5.3	2.6	2.0	3.4	8.6	13.2
SOLcliVEG2	HAC_T4_AY_SOC3	16	16	8.3	3.7	44	7.9	2.8	2.7	5.4	11.8	14.8
SOLcliVEG2	HAC_T4_BX_SOC1	33	33	2.4	1.6	69	1.9	1.1	0.2	1.0	3.3	6.4

IPCCcase	LONGID	N0	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliVEG2	HAC_T4_BX_SOC2	33	33	3.5	2.2	63	2.9	1.5	0.3	1.7	5.0	8.5
SOLcliVEG2	HAC_T4_BX_SOC3	23	23	6.2	3.9	63	5.8	2.8	0.5	2.7	8.3	15.9
SOLcliVEG2	HAC_T4_BY_SOC1	9	9	3.3	1.1	32	3.0	0.4	1.3	2.8	4.1	5.0
SOLcliVEG2	HAC_T4_BY_SOC2	8	8	4.9	1.5	31	4.7	0.3	2.1	4.5	6.3	7.0
SOLcliVEG2	HAC_T4_BY_SOC3	7	7	8.5	1.7	20	8.0	0.8	6.0	7.7	10.1	11.0
SOLcliVEG2	HAC_T4_CG_SOC1	39	37	2.5	1.4	55	2.2	0.7	0.5	1.6	3.2	5.7
SOLcliVEG2	HAC_T4_CG_SOC2	38	36	3.8	1.8	48	3.5	0.8	0.8	2.8	4.5	8.4
SOLcliVEG2	HAC_T4_CG_SOC3	35	33	6.2	2.7	44	6.4	1.5	1.1	4.1	7.9	12.4
SOLcliVEG2	HAC_W1_AE_SOC1	36	33	5.2	2.5	49	5.6	2.2	1.1	3.0	6.8	10.3
SOLcliVEG2	HAC_W1_AE_SOC2	35	32	6.7	3.2	48	6.6	2.3	1.3	4.2	9.4	13.1
SOLcliVEG2	HAC_W1_AE_SOC3	29	27	8.7	4.3	49	8.5	2.4	1.4	5.8	10.8	19.4
SOLcliVEG2	HAC_W1_AY_SOC1	98	94	6.4	3.3	52	6.1	2.2	0.9	4.1	8.7	14.2
SOLcliVEG2	HAC_W1_AY_SOC2	92	89	8.7	4.8	55	7.9	2.9	1.2	5.3	11.3	21.7
SOLcliVEG2	HAC_W1_AY_SOC3	68	63	9.9	4.5	46	9.3	2.7	1.6	6.5	11.8	23.2
SOLcliVEG2	HAC_W1_BY_SOC1	9	9	10.0	7.4	74	7.6	3.7	3.3	4.4	15.9	24.3
SOLcliVEG2	HAC_W1_BY_SOC2	9	9	13.0	9.3	71	8.8	4.0	4.8	6.1	20.7	31.2
SOLcliVEG2	HAC_W1_CG_SOC1	50	49	7.5	4.4	59	6.2	2.5	1.1	4.0	10.2	19.3
SOLcliVEG2	HAC_W1_CG_SOC2	47	44	9.0	5.1	56	7.3	2.3	1.7	5.3	11.4	22.7
SOLcliVEG2	HAC_W1_CG_SOC3	40	37	10.7	5.4	50	8.4	2.7	3.0	6.8	12.8	24.4
SOLcliVEG2	HAC_W2_AY_SOC1	74	69	2.9	1.9	64	2.4	1.2	0.4	1.5	3.9	8.1
SOLcliVEG2	HAC_W2_AY_SOC2	73	67	3.9	2.2	57	3.2	1.5	0.8	2.2	5.3	9.6
SOLcliVEG2	HAC_W2_AY_SOC3	55	52	6.1	3.3	54	5.4	2.1	1.9	3.6	7.8	14.1
SOLcliVEG2	HAC_W2_BX_SOC1	63	60	1.5	1.1	74	1.2	0.7	0.1	0.6	2.3	4.8
SOLcliVEG2	HAC_W2_BX_SOC2	62	57	2.0	1.3	63	1.8	0.8	0.2	0.9	2.8	5.9
SOLcliVEG2	HAC_W2_BX_SOC3	49	45	3.4	1.6	49	3.4	1.3	0.7	1.8	4.6	6.1
SOLcliVEG2	HAC_W2_BY_SOC1	253	243	1.8	1.0	57	1.6	0.7	0.4	1.0	2.5	4.5
SOLcliVEG2	HAC_W2_BY_SOC2	249	241	2.7	1.5	56	2.5	1.1	0.6	1.4	3.5	6.9
SOLcliVEG2	HAC_W2_BY_SOC3	174	170	4.3	2.2	52	4.0	1.5	1.1	2.4	5.3	10.0
SOLcliVEG2	HAC_W2_CG_SOC1	100	97	2.4	1.3	53	2.0	0.7	0.4	1.5	3.3	6.6
SOLcliVEG2	HAC_W2_CG_SOC2	97	93	3.4	1.7	50	3.0	1.0	0.7	2.0	4.4	8.0
SOLcliVEG2	HAC_W2_CG_SOC3	70	67	5.1	2.7	52	4.7	1.9	1.7	2.8	6.8	13.6
SOLcliVEG2	LAC_T1_AY_SOC1	27	26	4.7	2.5	52	4.4	1.6	1.3	2.7	6.2	10.7
SOLcliVEG2	LAC_T1_AY_SOC2	27	26	6.3	3.2	51	5.7	2.4	1.7	3.5	8.4	13.9
SOLcliVEG2	LAC_T1_AY_SOC3	26	25	9.1	4.7	52	8.9	3.2	2.3	5.3	12.1	20.8
SOLcliVEG2	LAC_T1_BY_SOC1	6	6	4.2	2.1	51	4.4	1.9	1.7	1.8	6.3	6.5
SOLcliVEG2	LAC_T1_BY_SOC2	6	6	5.8	3.2	55	6.2	2.8	2.2	2.3	8.9	9.4
SOLcliVEG2	LAC_T1_BY_SOC3	6	6	8.8	5.1	59	9.4	4.4	3.0	3.2	13.6	14.1
SOLcliVEG2	LAC_T2_AE_SOC1	152	148	5.1	2.3	46	4.6	1.5	1.3	3.3	6.6	12.6
SOLcliVEG2	LAC_T2_AE_SOC2	150	146	6.8	2.8	42	6.3	2.0	1.8	4.6	8.6	14.4
SOLcliVEG2	LAC_T2_AE_SOC3	142	138	9.6	3.7	38	9.1	2.6	2.7	6.9	11.9	19.7
SOLcliVEG2	LAC_T2_AY_SOC1	19	18	5.6	3.6	65	4.3	1.7	1.4	3.0	7.6	15.2
SOLcliVEG2	LAC_T2_AY_SOC2	19	17	6.7	3.4	51	6.4	2.4	2.0	4.1	9.1	15.4
SOLcliVEG2	LAC_T2_AY_SOC3	19	17	9.3	4.2	46	8.8	2.9	3.3	5.9	11.5	20.5
SOLcliVEG2	LAC_T2_BY_SOC1	6	6	7.0	3.8	55	6.6	3.5	2.7	3.1	11.3	11.9
SOLcliVEG2	LAC_T2_BY_SOC2	6	6	9.6	5.0	53	9.6	4.7	3.7	4.2	14.4	16.5
SOLcliVEG2	LAC_T2_BY_SOC3	6	6	13.2	6.7	51	14.5	4.9	5.3	5.8	17.7	23.1
SOLcliVEG2	LAC_T2_CG_SOC1	19	18	7.5	2.8	37	7.4	2.0	2.6	6.1	9.9	11.8
SOLcliVEG2	LAC_T2_CG_SOC2	19	16	10.5	2.6	25	10.1	1.5	4.6	9.5	12.8	14.3
SOLcliVEG2	LAC_T2_CG_SOC3	15	15	12.2	3.9	32	13.7	1.6	5.2	8.5	14.8	16.7
SOLcliVEG2	LAC_T3_AE_SOC1	56	54	4.4	2.0	46	3.8	1.3	1.6	2.7	5.6	9.8
SOLcliVEG2	LAC_T3_AE_SOC2	56	54	5.7	2.5	44	4.9	1.5	2.5	3.7	7.4	12.6
SOLcliVEG2	LAC_T3_AE_SOC3	52	50	7.8	3.1	40	6.9	1.9	3.4	5.4	10.4	16.6

IPCCcase	LONGID	NO	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliVEG2	LAC_T3_AY_SOC1	62	57	3.5	1.5	43	3.2	0.9	1.4	2.4	4.4	7.7
SOLcliVEG2	LAC_T3_AY_SOC2	62	59	4.9	2.3	46	4.3	1.2	2.0	3.1	6.0	11.4
SOLcliVEG2	LAC_T3_AY_SOC3	52	49	7.0	2.9	41	6.4	1.8	2.7	5.3	9.0	14.3
SOLcliVEG2	LAC_T3_BY_SOC1	12	12	3.8	1.7	44	3.9	1.3	1.1	2.4	5.1	6.2
SOLcliVEG2	LAC_T3_BY_SOC2	12	12	5.1	2.1	40	5.0	1.5	1.8	3.6	7.0	8.1
SOLcliVEG2	LAC_T3_BY_SOC3	12	12	7.3	2.7	36	6.8	2.4	2.8	5.6	9.5	11.8
SOLcliVEG2	LAC_T3_CG_SOC1	46	43	3.8	2.5	66	3.1	1.2	0.7	2.2	5.1	11.0
SOLcliVEG2	LAC_T3_CG_SOC2	46	45	5.8	4.1	70	4.3	2.0	0.9	3.0	7.9	15.5
SOLcliVEG2	LAC_T3_CG_SOC3	45	45	9.0	6.7	74	6.4	2.8	1.1	4.0	12.9	25.8
SOLcliVEG2	LAC_T4_AY_SOC1	9	8	2.0	0.6	30	2.0	0.5	1.0	1.5	2.5	2.7
SOLcliVEG2	LAC_T4_AY_SOC2	9	8	2.8	0.9	30	2.8	0.8	1.4	2.1	3.7	3.8
SOLcliVEG2	LAC_T4_AY_SOC3	9	9	4.9	2.2	46	4.8	1.0	2.2	3.0	5.8	9.8
SOLcliVEG2	LAC_W1_AE_SOC1	34	34	7.0	4.2	60	5.5	2.4	1.6	3.8	11.4	16.8
SOLcliVEG2	LAC_W1_AE_SOC2	34	34	9.0	5.5	61	7.0	2.9	2.1	5.0	14.2	20.1
SOLcliVEG2	LAC_W1_AE_SOC3	33	33	12.2	7.4	60	9.8	3.9	2.3	6.8	17.8	32.0
SOLcliVEG2	LAC_W1_AY_SOC1	53	51	4.4	2.6	59	3.7	1.3	0.3	2.4	5.6	11.2
SOLcliVEG2	LAC_W1_AY_SOC2	53	49	5.2	2.7	51	4.8	1.6	0.4	3.3	6.6	10.8
SOLcliVEG2	LAC_W1_AY_SOC3	47	43	6.7	3.4	50	6.0	2.3	0.5	4.0	8.5	16.1
SOLcliVEG2	LAC_W1_CG_SOC1	18	16	8.2	1.7	21	8.4	1.0	4.1	7.1	9.4	11.5
SOLcliVEG2	LAC_W1_CG_SOC2	18	16	11.2	2.2	20	11.6	1.3	6.1	9.9	12.7	14.9
SOLcliVEG2	LAC_W1_CG_SOC3	16	14	15.1	2.8	19	15.0	2.0	9.6	12.7	17.1	20.1
SOLcliVEG2	LAC_W2_AY_SOC1	13	13	3.2	1.6	50	3.3	1.1	0.8	2.0	4.3	6.1
SOLcliVEG2	LAC_W2_AY_SOC2	13	13	4.1	1.8	44	4.0	1.1	1.1	3.0	5.4	7.2
SOLcliVEG2	LAC_W2_AY_SOC3	11	11	5.5	2.3	41	4.9	1.2	1.8	4.0	7.4	9.1
SOLcliVEG2	LAC_W2_BY_SOC1	20	20	1.4	0.5	37	1.3	0.4	0.5	0.9	1.8	2.5
SOLcliVEG2	LAC_W2_BY_SOC2	20	20	2.1	0.7	32	2.2	0.6	1.0	1.4	2.4	3.5
SOLcliVEG2	LAC_W2_BY_SOC3	16	16	3.5	1.1	32	3.3	0.8	1.6	2.6	4.4	5.7
SOLcliVEG2	ORG_C1_CE_SOC1	12	12	35.1	12.7	36	35.5	8.0	14.6	25.0	44.4	56.3
SOLcliVEG2	ORG_C1_CE_SOC2	11	11	54.4	21.4	39	57.1	13.5	17.1	39.6	68.6	93.5
SOLcliVEG2	ORG_C1_CE_SOC3	10	10	98.1	37.7	38	108.9	16.0	21.7	75.3	117.3	159.7
SOLcliVEG2	POD_C1_AE_SOC1	10	10	12.4	6.7	54	11.7	5.1	3.1	6.8	17.6	24.3
SOLcliVEG2	POD_C1_AE_SOC2	9	9	18.2	10.5	58	19.3	8.5	3.2	8.7	28.8	32.4
SOLcliVEG2	POD_C1_AY_SOC1	18	17	12.5	7.0	56	10.8	3.4	5.0	7.2	15.1	30.3
SOLcliVEG2	POD_C1_AY_SOC2	17	17	20.1	12.5	62	15.6	6.4	7.1	9.9	29.6	44.0
SOLcliVEG2	POD_C1_AY_SOC3	12	12	29.4	24.3	83	20.0	9.6	7.7	11.9	47.9	88.7
SOLcliVEG2	SAN_C1_AE_SOC1	24	23	7.8	7.5	96	5.0	3.1	0.5	2.1	11.7	23.5
SOLcliVEG2	SAN_C1_AE_SOC2	24	23	9.1	8.2	90	5.5	3.1	1.1	2.7	13.6	26.4
SOLcliVEG2	SAN_C1_AE_SOC3	19	17	8.4	7.4	89	7.2	3.8	2.2	2.7	9.6	28.3
SOLcliVEG2	SAN_C1_AY_SOC1	33	30	5.7	3.9	69	4.2	1.9	1.1	3.1	8.2	15.3
SOLcliVEG2	SAN_C1_AY_SOC2	32	28	6.6	4.3	66	4.8	1.7	1.5	3.5	9.1	20.1
SOLcliVEG2	SAN_C1_AY_SOC3	28	25	7.1	3.9	55	5.7	1.9	1.8	4.0	10.3	16.8
SOLcliVEG2	SAN_T2_AE_SOC1	7	7	6.8	3.5	52	6.2	1.7	1.9	4.5	11.4	11.5
SOLcliVEG2	SAN_T2_AE_SOC2	7	7	7.8	3.4	44	7.0	0.4	2.3	6.6	12.1	12.2
SOLcliVEG2	SAN_T2_AY_SOC1	11	11	5.1	2.6	51	5.1	1.5	1.3	3.6	6.7	10.2
SOLcliVEG2	SAN_T2_AY_SOC2	11	11	6.2	3.1	50	5.7	2.0	1.9	4.1	7.7	12.9
SOLcliVEG2	SAN_T2_AY_SOC3	10	10	9.4	5.8	62	7.2	3.0	3.7	4.3	15.4	19.4
SOLcliVEG2	SAN_T3_AY_SOC1	18	18	3.7	2.3	62	2.9	1.3	1.3	2.0	5.5	9.2
SOLcliVEG2	SAN_T3_AY_SOC2	17	16	4.3	2.6	59	3.8	1.5	1.6	2.4	6.1	9.6
SOLcliVEG2	SAN_T3_AY_SOC3	17	17	7.4	5.0	67	5.7	2.5	2.5	3.3	10.5	17.0
SOLcliVEG2	San_T3_CG_SOC1	9	9	3.8	2.6	70	2.4	1.3	1.1	1.5	6.4	8.0
SOLcliVEG2	San_T3_CG_SOC2	9	9	5.0	3.4	68	3.3	1.6	1.4	2.2	9.2	9.9
SOLcliVEG2	San_T3_CG_SOC3	9	9	6.7	4.3	64	5.1	2.4	1.8	3.5	11.5	13.4

IPCCcase	LONGID	N0	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliVEG2	SAN_T4_CG_SOC1	8	8	0.9	0.6	72	0.9	0.5	0.1	0.2	1.4	1.8
SOLcliVEG2	SAN_T4_CG_SOC2	8	8	1.3	0.8	66	1.3	0.7	0.2	0.4	2.0	2.6
SOLcliVEG2	SAN_T4_CG_SOC3	8	8	2.0	1.3	64	2.0	0.9	0.4	0.8	3.0	4.1
SOLcliVEG2	SAN_W1_AY_SOC1	17	15	4.4	2.8	64	3.4	1.6	1.4	2.1	6.4	10.1
SOLcliVEG2	SAN_W1_AY_SOC2	17	15	5.6	3.5	63	3.9	1.6	1.5	2.7	9.3	12.1
SOLcliVEG2	SAN_W1_AY_SOC3	13	12	6.1	3.3	55	4.7	1.2	1.7	3.7	9.8	12.1
SOLcliVEG2	SAN_W2_AY_SOC1	34	31	1.3	0.5	38	1.3	0.4	0.3	0.9	1.7	2.2
SOLcliVEG2	SAN_W2_AY_SOC2	34	31	1.8	0.6	34	1.8	0.5	0.4	1.3	2.3	2.9
SOLcliVEG2	SAN_W2_AY_SOC3	31	29	2.8	0.9	31	2.9	0.7	0.7	2.0	3.5	4.4
SOLcliVEG2	SAN_W2_BX_SOC1	16	15	0.6	0.5	73	0.5	0.2	0.1	0.3	1.0	1.8
SOLcliVEG2	SAN_W2_BX_SOC2	15	15	1.1	0.9	79	0.7	0.4	0.1	0.5	1.8	3.1
SOLcliVEG2	SAN_W2_BX_SOC3	15	15	2.0	1.4	68	1.5	0.8	0.2	1.1	2.9	4.9
SOLcliVEG2	SAN_W2_BY_SOC1	178	171	1.0	0.4	42	0.9	0.3	0.4	0.7	1.2	2.1
SOLcliVEG2	SAN_W2_BY_SOC2	176	172	1.5	0.6	38	1.3	0.3	0.7	1.0	1.8	3.1
SOLcliVEG2	SAN_W2_BY_SOC3	171	167	2.5	0.8	33	2.2	0.5	1.4	1.8	2.9	4.7
SOLcliVEG2	SAN_W2_CG_SOC1	54	52	1.1	0.4	37	1.0	0.3	0.4	0.8	1.3	2.1
SOLcliVEG2	SAN_W2_CG_SOC2	54	53	1.6	0.6	36	1.5	0.4	0.7	1.2	2.0	3.0
SOLcliVEG2	SAN_W2_CG_SOC3	51	49	2.5	0.7	28	2.4	0.4	1.5	1.9	2.8	4.2
SOLcliVEG2	VOL_C1_AE_SOC1	9	9	13.2	4.9	37	13.9	3.1	4.3	9.9	17.8	18.9
SOLcliVEG2	VOL_C1_AE_SOC2	9	9	18.1	7.7	43	17.3	6.5	5.1	12.8	24.3	30.6
SOLcliVEG2	VOL_C1_AE_SOC3	6	6	18.6	8.7	47	20.5	4.3	6.4	10.6	23.4	31.8
SOLcliVEG2	VOL_C1_AY_SOC1	10	9	12.8	4.9	39	11.3	4.4	4.7	9.7	15.8	21.5
SOLcliVEG2	VOL_C1_AY_SOC2	10	9	18.5	6.5	35	19.0	4.0	6.1	14.5	24.1	26.9
SOLcliVEG2	VOL_C1_AY_SOC3	9	9	24.0	8.0	33	25.8	4.5	7.3	19.0	30.0	34.1
SOLcliVEG2	VOL_T2_AE_SOC1	7	7	7.5	4.2	56	5.9	1.1	3.6	4.8	10.7	15.6
SOLcliVEG2	VOL_T2_AE_SOC2	7	6	7.8	2.9	37	7.4	0.9	5.0	5.8	9.1	13.4
SOLcliVEG2	VOL_T2_AE_SOC3	7	6	10.7	3.1	29	10.1	2.0	7.6	8.0	13.1	16.2
SOLcliVEG2	VOL_W1_AE_SOC1	8	7	12.5	6.5	52	14.7	4.3	3.0	4.4	19.0	19.1
SOLcliVEG2	VOL_W1_AE_SOC2	8	7	16.9	8.7	51	20.4	4.9	4.3	6.2	24.2	25.3
SOLcliVEG2	VOL_W1_AE_SOC3	8	7	24.9	12.8	51	28.8	6.4	6.7	10.5	31.3	43.3
SOLcliVEG2	VOL_W1_AY_SOC1	6	6	15.0	1.8	12	15.6	0.9	11.7	13.4	16.4	16.6
SOLcliVEG2	VOL_W1_AY_SOC2	6	6	21.2	4.6	22	21.1	3.1	13.6	17.9	25.8	26.4
SOLcliVEG2	VOL_W1_AY_SOC3	6	6	33.3	15.3	46	29.8	3.5	15.3	25.1	41.8	61.5
SOLcliVEG2	VOL_W1_CG_SOC1	9	9	12.1	3.2	27	13.8	2.8	8.4	8.8	14.6	16.6
SOLcliVEG2	VOL_W1_CG_SOC2	9	9	18.5	5.6	30	20.2	3.4	11.2	12.1	23.4	24.7
SOLcliVEG2	VOL_W1_CG_SOC3	8	8	31.2	11.0	35	33.3	6.4	14.1	20.2	39.9	45.8
SOLcliVEG2	WET_C1_AY_SOC1	7	7	16.0	4.9	30	13.3	2.5	10.8	12.7	20.0	24.2
SOLcliVEG2	WET_C1_AY_SOC2	7	6	17.5	3.2	18	16.5	1.8	13.7	15.2	21.4	21.6
SOLcliVEG2	WET_C1_AY_SOC3	7	6	20.0	3.3	17	21.1	1.8	14.4	16.9	22.8	23.2
SOLcliVEG2	WET_C1_CE_SOC1	6	6	18.7	6.5	35	18.8	5.8	10.5	12.2	25.0	27.0
SOLcliVEG2	WET_C1_CE_SOC2	6	6	20.9	6.4	31	22.0	5.3	12.7	13.9	26.8	28.1
SOLcliVEG2	WET_C1_CE_SOC3	6	6	22.2	6.2	28	23.3	5.2	14.8	15.2	28.1	28.9
SOLcliVEG2	WET_T2_AE_SOC1	11	11	6.8	3.6	52	5.8	2.1	3.3	4.0	9.2	15.3
SOLcliVEG2	WET_T2_AE_SOC2	11	10	8.3	4.1	49	7.3	2.1	4.4	5.3	10.3	18.1
SOLcliVEG2	WET_T2_AE_SOC3	9	8	13.0	9.0	69	11.0	3.7	6.4	6.7	14.3	34.0
SOLcliVEG2	WET_T3_AY_SOC1	10	10	5.2	3.4	65	4.1	1.7	1.1	2.6	9.0	10.7
SOLcliVEG2	WET_T3_AY_SOC2	10	10	6.9	4.6	67	5.4	2.2	1.4	3.4	11.4	15.4
SOLcliVEG2	WET_T3_AY_SOC3	10	10	9.4	6.5	70	6.9	2.3	2.0	5.1	14.1	23.5
SOLcliVEG2	WET_W2_BY_SOC1	18	18	7.0	4.7	66	5.3	2.8	2.3	3.3	10.1	17.1
SOLcliVEG2	WET_W2_BY_SOC2	17	17	11.3	7.5	67	11.1	6.4	3.0	4.6	16.9	27.2
SOLcliVEG2	WET_W2_BY_SOC3	17	16	15.3	9.9	65	13.5	8.8	4.0	5.9	24.1	32.3
SOLcliVEG2	WET_W2_CG_SOC1	12	12	8.9	3.6	40	8.8	2.6	2.6	6.5	12.5	14.2

IPCCcase	LONGID	NO	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliVEG2	WET_W2_CG_SOC2	12	12	13.7	5.3	38	13.6	4.4	3.9	9.3	18.5	20.9
SOLcliVEG2	WET_W2_CG_SOC3	12	12	23.1	9.8	42	23.0	7.4	6.1	14.1	33.3	36.0
SOLcliVEG1TXT	HAC_Bx_A_2_SOC1	13	12	6.4	3.6	56	6.9	2.7	1.4	2.5	8.5	12.3
SOLcliVEG1TXT	HAC_Bx_A_2_SOC2	13	12	8.3	4.4	53	9.1	3.8	1.6	3.7	12.7	14.2
SOLcliVEG1TXT	HAC_Bx_B_2_SOC1	7	7	6.3	2.3	36	6.0	1.1	2.3	5.4	8.5	9.1
SOLcliVEG1TXT	HAC_Bx_B_2_SOC2	7	7	9.4	4.4	47	8.3	1.9	3.8	6.4	14.1	16.5
SOLcliVEG1TXT	HAC_C1_A_1_SOC1	10	10	8.2	4.3	52	7.1	2.6	3.9	4.7	12.9	16.0
SOLcliVEG1TXT	HAC_C1_A_1_SOC2	9	9	10.0	5.4	53	7.8	2.8	4.8	5.3	16.5	17.5
SOLcliVEG1TXT	HAC_C1_A_1_SOC3	7	7	10.9	5.9	54	8.7	2.9	5.7	6.1	18.7	19.2
SOLcliVEG1TXT	HAC_C1_A_2_SOC1	111	103	8.5	4.7	55	7.4	3.1	1.2	5.1	11.5	23.1
SOLcliVEG1TXT	HAC_C1_A_2_SOC2	109	100	9.8	5.0	51	8.8	2.9	1.4	6.1	12.5	24.9
SOLcliVEG1TXT	HAC_C1_A_2_SOC3	90	82	11.0	4.6	42	10.2	2.7	1.9	7.9	13.9	22.1
SOLcliVEG1TXT	HAC_C1_A_3_SOC1	39	37	10.3	4.1	40	10.5	3.2	2.8	6.9	13.4	18.4
SOLcliVEG1TXT	HAC_C1_A_3_SOC2	37	36	12.8	4.9	38	13.6	3.8	3.2	8.6	16.3	23.0
SOLcliVEG1TXT	HAC_C1_A_3_SOC3	24	24	16.1	6.6	41	16.2	4.4	4.2	11.1	20.1	30.2
SOLcliVEG1TXT	HAC_C1_B_2_SOC1	6	6	6.9	4.3	62	7.8	3.1	1.7	2.1	9.9	13.0
SOLcliVEG1TXT	HAC_C1_B_2_SOC2	6	6	8.5	4.7	56	10.0	2.9	2.3	3.0	12.2	14.2
SOLcliVEG1TXT	HAC_C1_C_2_SOC1	13	13	7.3	3.8	52	8.4	2.8	1.1	3.8	10.9	13.2
SOLcliVEG1TXT	HAC_C1_C_2_SOC2	12	12	10.1	4.5	44	12.1	1.8	1.5	6.2	13.2	16.1
SOLcliVEG1TXT	HAC_C1_C_2_SOC3	10	10	12.2	6.2	51	14.0	5.4	2.1	7.0	16.1	21.7
SOLcliVEG1TXT	HAC_C1_C_3_SOC1	8	8	7.4	3.3	44	7.0	2.3	3.7	4.2	10.4	12.8
SOLcliVEG1TXT	HAC_C1_C_3_SOC2	8	8	10.7	5.3	49	9.8	3.0	5.3	6.0	14.3	21.1
SOLcliVEG1TXT	HAC_C1_C_3_SOC3	8	8	16.0	8.6	54	14.6	4.9	7.9	9.1	20.4	34.2
SOLcliVEG1TXT	HAC_C2_B_2_SOC1	24	24	4.2	2.5	59	3.4	1.5	1.3	2.1	5.8	10.6
SOLcliVEG1TXT	HAC_C2_B_2_SOC2	23	22	5.6	3.2	57	5.1	2.4	2.1	2.8	7.9	14.2
SOLcliVEG1TXT	HAC_C2_B_2_SOC3	18	16	7.9	3.6	45	7.3	3.1	2.9	4.8	11.0	14.3
SOLcliVEG1TXT	HAC_C2_C_2_SOC1	26	25	4.7	3.0	64	4.3	2.0	0.9	1.8	6.1	11.4
SOLcliVEG1TXT	HAC_C2_C_2_SOC2	24	23	6.9	4.7	68	5.9	3.3	1.1	2.6	9.2	18.6
SOLcliVEG1TXT	HAC_C2_C_2_SOC3	21	20	10.6	7.0	66	8.9	4.4	2.5	4.5	14.2	27.6
SOLcliVEG1TXT	HAC_C2_C_3_SOC1	9	9	6.8	3.3	48	5.6	1.2	3.7	4.4	8.3	14.0
SOLcliVEG1TXT	HAC_C2_C_3_SOC2	9	9	9.1	3.7	41	8.4	1.3	5.4	6.5	11.0	17.2
SOLcliVEG1TXT	HAC_C2_C_3_SOC3	8	8	11.6	3.4	29	10.2	1.8	8.4	8.7	15.1	16.8
SOLcliVEG1TXT	HAC_T1_A_2_SOC1	9	8	3.9	2.3	60	3.3	1.3	1.8	2.2	4.8	9.0
SOLcliVEG1TXT	HAC_T1_A_2_SOC2	9	8	5.3	3.1	58	4.9	1.6	2.7	2.8	6.1	11.9
SOLcliVEG1TXT	HAC_T1_A_2_SOC3	8	8	10.4	8.5	82	8.2	4.3	3.5	3.8	14.9	28.2
SOLcliVEG1TXT	HAC_T1_A_3_SOC1	15	12	7.1	1.3	18	6.9	0.7	5.3	6.2	8.0	9.6
SOLcliVEG1TXT	HAC_T1_A_3_SOC2	15	14	10.5	4.1	39	10.1	1.6	3.8	8.4	12.2	20.8
SOLcliVEG1TXT	HAC_T1_A_3_SOC3	14	14	17.8	7.9	44	16.3	3.8	6.9	12.9	22.8	36.3
SOLcliVEG1TXT	HAC_T1_C_3_SOC1	8	8	6.0	1.8	30	5.6	0.9	4.3	4.6	7.2	9.6
SOLcliVEG1TXT	HAC_T1_C_3_SOC2	8	8	9.0	2.8	31	8.2	1.3	6.4	6.8	10.8	14.6
SOLcliVEG1TXT	HAC_T1_C_3_SOC3	7	7	14.5	4.6	32	12.5	1.0	11.0	11.5	19.5	22.6
SOLcliVEG1TXT	HAC_T2_A_2_SOC1	37	35	5.0	2.4	47	4.6	1.1	1.5	3.5	5.6	10.7
SOLcliVEG1TXT	HAC_T2_A_2_SOC2	35	35	7.0	3.2	45	6.4	1.6	2.3	4.8	8.5	13.8
SOLcliVEG1TXT	HAC_T2_A_2_SOC3	30	28	8.4	2.9	35	8.1	1.6	3.7	6.8	10.2	15.5
SOLcliVEG1TXT	HAC_T2_A_3_SOC1	27	27	6.7	3.1	46	6.4	2.5	2.4	3.8	8.5	13.9
SOLcliVEG1TXT	HAC_T2_A_3_SOC2	27	27	8.8	3.9	44	8.4	2.7	3.5	5.2	11.0	17.2
SOLcliVEG1TXT	HAC_T2_A_3_SOC3	20	19	11.2	5.3	47	10.3	3.3	4.8	6.9	13.6	22.4
SOLcliVEG1TXT	HAC_T2_C_2_SOC1	6	6	3.4	2.0	60	3.4	1.1	1.2	1.4	4.5	6.8
SOLcliVEG1TXT	HAC_T3_A_1_SOC1	9	9	3.1	2.3	74	3.6	2.3	0.3	0.9	5.4	6.1
SOLcliVEG1TXT	HAC_T3_A_1_SOC2	8	8	3.7	3.0	80	3.3	2.2	0.5	1.0	6.9	7.7
SOLcliVEG1TXT	HAC_T3_A_1_SOC3	7	7	4.2	3.7	88	2.7	2.1	0.6	1.6	6.2	11.2
SOLcliVEG1TXT	HAC_T3_A_2_SOC1	32	28	3.8	2.2	58	3.4	1.1	1.4	2.2	4.5	10.2

IPCCcase	LONGID	N0	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliVEG1TXT	HAC_T3_A_2_SOC2	30	27	5.1	2.9	57	4.6	1.6	1.8	2.9	6.2	12.4
SOLcliVEG1TXT	HAC_T3_A_2_SOC3	27	24	6.9	3.5	51	5.9	2.0	2.6	4.0	8.2	14.7
SOLcliVEG1TXT	HAC_T3_A_3_SOC1	27	26	6.1	3.6	58	5.1	1.6	1.7	3.5	7.2	16.0
SOLcliVEG1TXT	HAC_T3_A_3_SOC2	26	23	7.4	3.5	47	6.8	2.4	2.2	4.4	9.2	15.7
SOLcliVEG1TXT	HAC_T3_A_3_SOC3	20	17	9.6	3.6	37	9.3	2.6	3.4	6.9	12.1	17.1
SOLcliVEG1TXT	HAC_T3_B_2_SOC1	6	6	5.3	2.9	56	4.8	2.4	1.7	2.7	8.6	8.7
SOLcliVEG1TXT	HAC_T3_B_2_SOC2	6	6	6.4	3.2	50	6.2	3.0	2.4	3.4	9.9	9.9
SOLcliVEG1TXT	HAC_T3_C_2_SOC1	10	10	4.7	3.7	78	2.8	0.6	2.1	2.4	7.8	12.9
SOLcliVEG1TXT	HAC_T3_C_2_SOC2	10	10	6.3	4.0	64	4.2	0.6	3.2	3.8	10.4	14.5
SOLcliVEG1TXT	HAC_T3_C_2_SOC3	7	7	8.4	4.3	52	6.8	0.9	4.3	5.9	12.5	16.4
SOLcliVEG1TXT	HAC_T3_C_3_SOC1	13	12	3.8	1.4	37	3.2	0.5	2.6	2.8	4.6	7.5
SOLcliVEG1TXT	HAC_T3_C_3_SOC2	12	11	4.9	1.1	23	4.8	0.8	3.3	4.0	5.9	7.0
SOLcliVEG1TXT	HAC_T3_C_3_SOC3	11	10	7.5	1.9	25	6.9	1.3	5.2	5.9	9.3	11.1
SOLcliVEG1TXT	HAC_T4_A_2_SOC1	17	16	3.7	2.7	75	2.7	1.6	0.5	1.7	6.0	10.5
SOLcliVEG1TXT	HAC_T4_A_2_SOC2	17	17	5.5	4.3	78	3.8	1.9	1.2	2.3	8.2	16.9
SOLcliVEG1TXT	HAC_T4_A_2_SOC3	12	12	6.0	3.5	59	4.8	2.2	2.4	2.9	9.8	12.5
SOLcliVEG1TXT	HAC_T4_A_3_SOC1	13	13	4.2	2.1	51	3.9	1.9	1.8	2.3	6.1	8.4
SOLcliVEG1TXT	HAC_T4_A_3_SOC2	12	12	6.5	3.2	49	5.8	2.3	2.7	3.8	9.3	13.2
SOLcliVEG1TXT	HAC_T4_A_3_SOC3	11	11	8.9	3.7	42	8.3	3.8	4.2	5.6	12.4	14.8
SOLcliVEG1TXT	HAC_T4_B_1_SOC1	6	6	1.1	0.9	79	0.8	0.3	0.4	0.6	1.8	2.8
SOLcliVEG1TXT	HAC_T4_B_2_SOC1	18	18	2.3	1.8	80	1.7	0.9	0.2	0.9	3.2	6.4
SOLcliVEG1TXT	HAC_T4_B_2_SOC2	18	18	3.3	2.4	71	2.7	1.1	0.3	1.6	4.2	7.8
SOLcliVEG1TXT	HAC_T4_B_2_SOC3	12	12	5.2	3.7	71	4.3	1.7	0.5	2.6	7.3	13.4
SOLcliVEG1TXT	HAC_T4_B_3_SOC1	20	20	3.1	1.1	37	3.0	0.5	1.1	2.4	3.6	5.3
SOLcliVEG1TXT	HAC_T4_B_3_SOC2	20	19	4.5	1.4	31	4.5	0.7	2.1	3.3	5.2	7.0
SOLcliVEG1TXT	HAC_T4_B_3_SOC3	17	16	7.9	1.7	21	7.8	1.0	4.6	6.8	8.9	11.0
SOLcliVEG1TXT	HAC_T4_C_2_SOC1	10	10	2.6	1.3	51	2.7	1.2	0.7	1.3	3.8	4.8
SOLcliVEG1TXT	HAC_T4_C_2_SOC2	8	8	3.7	1.6	44	3.8	1.3	1.2	2.4	5.4	5.8
SOLcliVEG1TXT	HAC_T4_C_2_SOC3	7	7	5.7	2.3	40	6.9	1.1	2.8	3.3	7.7	8.0
SOLcliVEG1TXT	HAC_T4_C_3_SOC1	28	27	2.8	1.6	57	2.2	0.6	0.7	1.8	3.6	6.7
SOLcliVEG1TXT	HAC_T4_C_3_SOC2	28	26	4.0	1.8	45	3.6	0.7	1.0	2.9	4.8	8.4
SOLcliVEG1TXT	HAC_T4_C_3_SOC3	26	24	6.8	2.7	40	6.4	1.3	1.7	5.7	8.1	12.4
SOLcliVEG1TXT	HAC_W1_A_1_SOC1	10	10	8.3	5.8	70	5.8	3.0	2.3	3.5	14.7	17.4
SOLcliVEG1TXT	HAC_W1_A_1_SOC2	9	9	12.8	9.6	75	9.4	5.2	3.3	4.6	23.8	26.6
SOLcliVEG1TXT	HAC_W1_A_2_SOC1	85	82	5.8	3.0	53	5.3	1.9	0.9	3.6	7.2	14.0
SOLcliVEG1TXT	HAC_W1_A_2_SOC2	79	74	7.1	3.7	52	6.7	2.7	1.2	4.5	9.7	17.2
SOLcliVEG1TXT	HAC_W1_A_2_SOC3	65	60	8.8	4.3	49	8.5	2.6	1.4	5.8	11.0	19.4
SOLcliVEG1TXT	HAC_W1_A_3_SOC1	43	41	7.5	3.7	50	6.6	2.5	1.4	4.7	9.6	17.8
SOLcliVEG1TXT	HAC_W1_A_3_SOC2	43	41	9.8	4.8	49	8.8	3.0	2.2	6.0	12.4	21.4
SOLcliVEG1TXT	HAC_W1_A_3_SOC3	32	31	13.2	6.5	49	11.3	3.3	3.7	8.7	16.2	29.1
SOLcliVEG1TXT	HAC_W1_B_2_SOC1	11	11	9.2	7.6	83	6.5	3.9	1.2	3.3	13.1	24.3
SOLcliVEG1TXT	HAC_W1_B_2_SOC2	9	9	14.2	10.1	71	13.7	8.9	1.8	4.8	23.3	31.2
SOLcliVEG1TXT	HAC_W1_B_3_SOC1	6	6	6.5	2.0	30	6.8	1.5	3.7	4.6	8.1	8.9
SOLcliVEG1TXT	HAC_W1_B_3_SOC2	6	6	8.6	2.8	33	8.1	1.6	5.2	6.6	10.9	13.2
SOLcliVEG1TXT	HAC_W1_C_2_SOC1	26	25	7.5	5.4	72	5.1	1.8	1.1	3.5	11.6	19.3
SOLcliVEG1TXT	HAC_W1_C_2_SOC2	25	24	10.0	7.8	77	6.7	2.3	1.7	4.8	12.9	28.1
SOLcliVEG1TXT	HAC_W1_C_2_SOC3	21	20	12.0	9.8	81	8.0	2.2	3.0	6.2	15.0	35.1
SOLcliVEG1TXT	HAC_W1_C_3_SOC1	27	27	8.3	3.5	42	7.6	2.7	3.7	5.0	10.8	15.0
SOLcliVEG1TXT	HAC_W1_C_3_SOC2	25	25	10.9	5.2	47	9.6	3.7	5.0	6.3	14.8	22.1
SOLcliVEG1TXT	HAC_W1_C_3_SOC3	22	22	14.1	7.2	51	11.8	3.6	6.7	8.4	18.5	31.6
SOLcliVEG1TXT	HAC_W2_A_1_SOC1	11	11	1.1	0.5	45	1.1	0.5	0.4	0.7	1.6	1.9
SOLcliVEG1TXT	HAC_W2_A_1_SOC2	11	11	1.7	0.7	39	1.7	0.6	0.8	1.1	2.4	2.8

IPCCcase	LONGID	NO	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliVEG1TXT	HAC_W2_A_1_SOC3	8	8	3.0	1.1	36	2.6	0.7	1.9	2.0	4.2	4.3
SOLcliVEG1TXT	HAC_W2_A_2_SOC1	46	42	3.4	2.1	62	2.8	1.2	0.8	1.8	4.8	8.9
SOLcliVEG1TXT	HAC_W2_A_2_SOC2	44	41	4.4	2.4	55	3.9	1.3	1.1	2.7	5.4	11.2
SOLcliVEG1TXT	HAC_W2_A_2_SOC3	34	30	5.6	2.3	41	5.6	1.5	2.2	3.9	7.0	12.3
SOLcliVEG1TXT	HAC_W2_A_3_SOC1	24	22	3.8	1.9	51	3.7	1.5	1.0	2.0	4.9	8.1
SOLcliVEG1TXT	HAC_W2_A_3_SOC2	23	21	5.4	2.5	47	5.3	1.9	1.4	3.1	6.9	11.8
SOLcliVEG1TXT	HAC_W2_A_3_SOC3	17	17	9.2	4.5	49	9.7	2.3	2.4	5.6	11.9	21.2
SOLcliVEG1TXT	HAC_W2_B_1_SOC1	95	86	1.0	0.5	48	0.9	0.3	0.1	0.7	1.3	2.3
SOLcliVEG1TXT	HAC_W2_B_1_SOC2	95	90	1.6	0.8	48	1.5	0.3	0.2	1.1	1.9	3.8
SOLcliVEG1TXT	HAC_W2_B_1_SOC3	78	75	2.7	1.1	42	2.4	0.5	0.7	2.0	3.3	5.7
SOLcliVEG1TXT	HAC_W2_B_2_SOC1	152	145	1.7	0.9	52	1.6	0.6	0.1	1.0	2.3	3.9
SOLcliVEG1TXT	HAC_W2_B_2_SOC2	148	141	2.5	1.2	48	2.5	0.8	0.2	1.5	3.3	6.0
SOLcliVEG1TXT	HAC_W2_B_2_SOC3	93	89	4.1	1.5	38	4.3	1.0	1.0	2.7	5.0	8.3
SOLcliVEG1TXT	HAC_W2_B_3_SOC1	73	71	2.8	1.4	49	2.7	1.0	0.4	1.9	3.8	6.8
SOLcliVEG1TXT	HAC_W2_B_3_SOC2	72	70	4.3	2.2	51	3.9	1.3	0.6	3.0	5.9	10.3
SOLcliVEG1TXT	HAC_W2_B_3_SOC3	55	53	6.7	3.1	46	6.1	2.0	1.2	4.4	9.2	14.0
SOLcliVEG1TXT	HAC_W2_C_1_SOC1	22	21	1.5	0.8	51	1.4	0.5	0.4	0.9	2.0	3.4
SOLcliVEG1TXT	HAC_W2_C_1_SOC2	21	21	2.2	1.1	52	2.0	0.8	0.7	1.3	3.1	4.6
SOLcliVEG1TXT	HAC_W2_C_1_SOC3	18	18	3.4	1.6	46	2.6	0.8	1.7	2.1	4.8	6.3
SOLcliVEG1TXT	HAC_W2_C_2_SOC1	38	37	2.4	1.0	43	2.1	0.6	0.6	1.7	3.0	4.7
SOLcliVEG1TXT	HAC_W2_C_2_SOC2	37	36	3.3	1.3	39	2.9	0.7	1.1	2.4	4.0	5.9
SOLcliVEG1TXT	HAC_W2_C_2_SOC3	22	21	4.9	2.0	41	4.5	1.5	2.0	3.0	6.6	8.9
SOLcliVEG1TXT	HAC_W2_C_3_SOC1	43	41	3.0	1.5	48	2.8	1.2	0.8	1.8	4.1	6.9
SOLcliVEG1TXT	HAC_W2_C_3_SOC2	42	41	4.5	2.2	50	4.2	1.9	1.2	2.7	6.1	10.8
SOLcliVEG1TXT	HAC_W2_C_3_SOC3	32	32	6.9	3.6	53	6.6	2.3	1.9	3.7	9.0	15.4
SOLcliVEG1TXT	LAC_T1_A_2_SOC1	13	13	3.0	1.1	37	2.9	1.0	1.3	2.0	4.2	4.7
SOLcliVEG1TXT	LAC_T1_A_2_SOC2	13	13	4.0	1.5	36	3.8	1.0	1.7	2.8	5.3	6.3
SOLcliVEG1TXT	LAC_T1_A_2_SOC3	12	12	5.8	2.3	39	5.8	1.5	2.3	4.0	7.1	9.8
SOLcliVEG1TXT	LAC_T1_A_3_SOC1	17	15	6.5	2.4	36	6.1	0.9	2.7	5.8	7.2	10.7
SOLcliVEG1TXT	LAC_T1_A_3_SOC2	17	15	8.6	2.9	34	8.4	1.0	3.5	7.4	10.3	13.9
SOLcliVEG1TXT	LAC_T1_A_3_SOC3	16	14	12.0	4.2	35	11.2	2.8	4.3	9.4	15.0	20.8
SOLcliVEG1TXT	LAC_T2_A_2_SOC1	54	52	4.0	1.7	43	3.8	1.1	1.4	2.7	5.0	8.9
SOLcliVEG1TXT	LAC_T2_A_2_SOC2	53	52	5.6	2.3	42	5.1	1.7	1.9	4.1	7.3	11.8
SOLcliVEG1TXT	LAC_T2_A_2_SOC3	51	50	8.1	3.2	39	7.4	2.3	3.1	5.7	10.2	17.0
SOLcliVEG1TXT	LAC_T2_A_3_SOC1	112	108	5.8	2.5	44	5.3	2.0	1.6	3.8	7.5	13.5
SOLcliVEG1TXT	LAC_T2_A_3_SOC2	111	106	7.5	2.9	39	7.0	2.0	2.2	5.3	9.4	16.1
SOLcliVEG1TXT	LAC_T2_A_3_SOC3	105	100	10.5	3.8	36	10.3	2.7	4.1	7.3	12.6	21.6
SOLcliVEG1TXT	LAC_T2_C_3_SOC1	16	16	8.3	3.1	38	7.5	1.0	2.6	7.0	10.7	15.7
SOLcliVEG1TXT	LAC_T2_C_3_SOC2	16	14	10.8	2.2	21	10.1	1.0	5.8	9.5	12.9	14.3
SOLcliVEG1TXT	LAC_T2_C_3_SOC3	12	11	14.0	2.3	17	14.2	1.5	8.5	12.7	16.2	16.7
SOLcliVEG1TXT	LAC_T3_A_1_SOC1	8	7	2.7	0.6	23	2.8	0.5	1.8	2.3	3.3	3.7
SOLcliVEG1TXT	LAC_T3_A_1_SOC2	8	7	3.7	1.0	26	3.5	0.5	2.6	3.0	4.9	5.2
SOLcliVEG1TXT	LAC_T3_A_1_SOC3	7	7	6.4	3.7	57	4.5	0.9	3.6	4.1	8.5	13.9
SOLcliVEG1TXT	LAC_T3_A_2_SOC1	52	51	3.7	1.6	44	3.1	1.1	1.6	2.5	5.0	8.3
SOLcliVEG1TXT	LAC_T3_A_2_SOC2	52	51	4.9	2.0	42	4.2	1.1	2.1	3.5	6.2	10.5
SOLcliVEG1TXT	LAC_T3_A_2_SOC3	46	44	6.6	2.4	37	6.0	1.0	2.7	5.1	7.3	12.5
SOLcliVEG1TXT	LAC_T3_A_3_SOC1	59	57	4.6	2.3	51	3.9	1.4	1.4	3.0	6.0	10.0
SOLcliVEG1TXT	LAC_T3_A_3_SOC2	59	55	5.7	2.6	45	4.9	1.8	2.0	4.0	7.4	12.6
SOLcliVEG1TXT	LAC_T3_A_3_SOC3	52	50	8.6	3.6	42	7.6	2.2	3.3	6.1	10.6	18.0
SOLcliVEG1TXT	LAC_T3_B_2_SOC1	7	7	2.8	1.3	47	2.5	0.8	1.1	1.7	4.2	4.8
SOLcliVEG1TXT	LAC_T3_B_2_SOC2	7	7	3.8	1.5	40	3.6	1.1	1.8	2.5	5.1	6.3
SOLcliVEG1TXT	LAC_T3_B_2_SOC3	7	7	5.7	2.0	35	5.5	1.3	2.8	4.0	6.8	9.0

IPCCcase	LONGID	N0	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliVEG1TXT	LAC_T3_B_3_SOC1	9	9	5.2	1.6	31	5.2	1.6	3.0	3.5	6.6	7.7
SOLcliVEG1TXT	LAC_T3_B_3_SOC2	9	9	6.8	2.0	30	7.2	1.4	3.8	4.6	8.4	9.8
SOLcliVEG1TXT	LAC_T3_B_3_SOC3	9	9	8.9	2.4	27	9.6	1.8	5.4	6.2	11.0	11.8
SOLcliVEG1TXT	LAC_T3_C_1_SOC1	7	7	2.1	0.7	32	2.1	0.5	1.1	1.6	2.6	3.2
SOLcliVEG1TXT	LAC_T3_C_1_SOC2	7	7	2.9	1.0	35	2.7	0.4	1.5	2.3	4.1	4.3
SOLcliVEG1TXT	LAC_T3_C_1_SOC3	7	7	4.3	1.7	40	4.1	1.1	2.3	3.0	5.5	7.5
SOLcliVEG1TXT	LAC_T3_C_2_SOC1	17	15	2.4	1.0	42	2.3	0.7	1.0	1.6	3.0	5.1
SOLcliVEG1TXT	LAC_T3_C_2_SOC2	17	15	3.3	1.3	40	3.1	0.8	1.5	2.3	4.1	6.6
SOLcliVEG1TXT	LAC_T3_C_2_SOC3	17	15	4.8	1.8	38	4.5	1.1	2.5	3.6	5.9	8.7
SOLcliVEG1TXT	LAC_T3_C_3_SOC1	23	23	5.8	3.2	56	4.9	1.9	0.7	3.1	8.6	11.7
SOLcliVEG1TXT	LAC_T3_C_3_SOC2	23	23	8.1	4.4	55	6.9	3.1	0.9	4.3	11.8	15.5
SOLcliVEG1TXT	LAC_T3_C_3_SOC3	22	22	12.4	7.0	56	10.9	5.7	1.1	6.2	19.1	25.8
SOLcliVEG1TXT	LAC_T4_A_2_SOC1	6	6	2.0	0.5	25	2.0	0.4	1.4	1.6	2.6	2.7
SOLcliVEG1TXT	LAC_T4_A_2_SOC2	6	6	2.9	0.7	24	2.8	0.6	2.0	2.3	3.7	3.8
SOLcliVEG1TXT	LAC_T4_A_2_SOC3	6	6	4.5	1.2	28	4.7	1.1	3.0	3.0	5.7	5.8
SOLcliVEG1TXT	LAC_W1_A_1_SOC1	6	6	4.0	2.5	63	3.1	1.0	1.6	2.2	6.3	8.3
SOLcliVEG1TXT	LAC_W1_A_1_SOC2	6	6	5.0	3.0	61	3.7	0.9	2.2	3.0	7.5	10.4
SOLcliVEG1TXT	LAC_W1_A_2_SOC1	36	34	4.4	2.2	50	4.0	1.5	1.2	2.7	6.0	9.7
SOLcliVEG1TXT	LAC_W1_A_2_SOC2	36	35	5.7	3.1	54	5.5	2.1	1.5	3.3	7.5	15.2
SOLcliVEG1TXT	LAC_W1_A_2_SOC3	31	30	7.2	3.9	54	6.8	3.0	2.3	3.7	9.5	17.0
SOLcliVEG1TXT	LAC_W1_A_3_SOC1	46	45	6.5	4.2	66	4.8	2.2	0.3	3.1	10.2	16.8
SOLcliVEG1TXT	LAC_W1_A_3_SOC2	46	45	8.5	5.6	66	6.3	2.8	0.4	4.2	13.3	20.1
SOLcliVEG1TXT	LAC_W1_A_3_SOC3	45	44	11.7	7.6	65	9.4	3.6	0.5	6.0	17.7	32.0
SOLcliVEG1TXT	LAC_W1_C_2_SOC1	6	6	6.4	2.9	45	6.6	1.2	1.1	5.0	8.8	9.1
SOLcliVEG1TXT	LAC_W1_C_2_SOC2	6	6	8.3	3.8	45	8.9	1.3	1.6	6.1	10.8	12.8
SOLcliVEG1TXT	LAC_W1_C_3_SOC1	13	11	8.7	1.3	15	8.7	1.0	7.1	7.6	9.5	11.5
SOLcliVEG1TXT	LAC_W1_C_3_SOC2	13	11	12.0	1.4	11	11.9	0.6	9.8	11.3	12.9	14.9
SOLcliVEG1TXT	LAC_W1_C_3_SOC3	12	11	15.5	2.9	19	15.2	1.6	9.6	13.9	17.9	20.1
SOLcliVEG1TXT	LAC_W2_A_2_SOC1	6	6	3.0	1.8	58	2.8	0.8	1.1	1.8	4.2	6.1
SOLcliVEG1TXT	LAC_W2_A_2_SOC2	6	6	3.8	1.9	49	3.5	0.5	1.7	2.6	4.8	7.2
SOLcliVEG1TXT	LAC_W2_A_2_SOC3	6	6	5.4	2.0	37	4.9	0.5	3.2	4.3	6.5	9.1
SOLcliVEG1TXT	LAC_W2_A_3_SOC1	6	6	5.3	3.4	63	4.3	1.2	2.6	3.1	7.2	11.9
SOLcliVEG1TXT	LAC_W2_A_3_SOC2	6	6	6.9	4.4	64	5.4	1.1	3.2	4.3	9.1	15.5
SOLcliVEG1TXT	LAC_W2_B_1_SOC1	7	7	1.3	0.6	43	1.4	0.5	0.5	0.8	1.8	2.0
SOLcliVEG1TXT	LAC_W2_B_1_SOC2	7	7	2.0	0.7	35	2.1	0.6	1.0	1.4	2.7	2.9
SOLcliVEG1TXT	LAC_W2_B_1_SOC3	6	6	3.3	1.1	34	3.3	0.9	1.6	2.4	4.5	4.6
SOLcliVEG1TXT	LAC_W2_B_2_SOC1	12	12	1.3	0.4	30	1.3	0.3	0.8	1.1	1.7	2.1
SOLcliVEG1TXT	LAC_W2_B_2_SOC2	12	12	2.0	0.6	28	2.0	0.3	1.3	1.4	2.4	3.1
SOLcliVEG1TXT	LAC_W2_B_2_SOC3	9	9	3.4	1.0	29	3.2	0.7	2.2	2.5	4.1	5.2
SOLcliVEG1TXT	ORG_C1_C_4_SOC1	16	14	36.2	12.8	35	35.5	8.0	14.6	28.1	47.0	56.3
SOLcliVEG1TXT	ORG_C1_C_4_SOC2	15	13	55.3	20.0	36	57.1	13.0	17.1	41.6	69.3	93.5
SOLcliVEG1TXT	ORG_C1_C_4_SOC3	14	13	104.6	39.4	38	110.8	22.6	21.7	79.2	127.1	167.0
SOLcliVEG1TXT	POD_C1_A_1_SOC1	6	6	8.8	4.9	56	6.9	2.3	3.1	5.5	14.4	15.9
SOLcliVEG1TXT	POD_C1_A_1_SOC2	6	6	11.5	6.8	59	9.9	5.1	3.2	5.8	19.5	20.0
SOLcliVEG1TXT	POD_C1_A_2_SOC1	23	22	13.4	6.8	51	11.5	3.8	5.0	8.3	17.6	30.3
SOLcliVEG1TXT	POD_C1_A_2_SOC2	21	21	21.4	11.7	55	16.6	6.8	7.1	12.9	32.0	44.0
SOLcliVEG1TXT	POD_C1_A_2_SOC3	13	13	32.3	25.5	79	17.6	9.1	7.7	14.2	51.5	88.7
SOLcliVEG1TXT	SAN_C1_A_1_SOC1	58	54	6.5	5.7	88	4.3	2.1	0.5	2.3	8.6	22.7
SOLcliVEG1TXT	SAN_C1_A_1_SOC2	57	52	7.5	6.3	83	5.4	2.6	1.1	3.2	9.3	25.0
SOLcliVEG1TXT	SAN_C1_A_1_SOC3	48	43	7.4	5.2	70	5.7	2.5	1.8	3.7	9.9	23.9
SOLcliVEG1TXT	SAN_C1_B_1_SOC1	9	9	3.7	3.3	90	2.8	2.2	0.2	0.6	7.4	8.8
SOLcliVEG1TXT	SAN_C1_B_1_SOC2	7	7	5.9	4.1	68	4.1	3.3	0.8	3.0	9.7	11.3

IPCCcase	LONGID	NO	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliVEG1TXT	SAN_C1_C_1_SOC1	8	8	8.2	7.5	92	5.8	3.3	2.1	2.6	12.0	24.4
SOLcliVEG1TXT	SAN_C1_C_1_SOC2	7	7	8.1	5.4	67	6.6	3.5	2.8	3.1	11.1	18.5
SOLcliVEG1TXT	SAN_T2_A_1_SOC1	18	16	5.0	2.3	46	5.3	1.3	1.3	3.7	6.4	10.2
SOLcliVEG1TXT	San_T2_A_1_SOC2	18	17	6.4	3.0	46	6.6	1.2	1.9	4.6	7.7	12.2
SOLcliVEG1TXT	SAN_T2_A_1_SOC3	16	15	8.9	5.1	58	7.8	3.4	2.7	4.4	12.6	19.4
SOLcliVEG1TXT	SAN_T3_A_1_SOC1	22	21	3.3	1.7	51	3.3	1.2	1.3	2.0	4.1	7.1
SOLcliVEG1TXT	SAN_T3_A_1_SOC2	21	20	4.3	2.3	54	3.9	1.3	1.6	2.5	5.2	9.6
SOLcliVEG1TXT	SAN_T3_A_1_SOC3	19	19	7.3	4.7	64	5.8	2.6	2.5	3.4	9.2	17.0
SOLcliVEG1TXT	San_T3_C_1_SOC1	9	9	3.8	2.6	70	2.4	1.3	1.1	1.5	6.4	8.0
SOLcliVEG1TXT	San_T3_C_1_SOC2	9	9	5.0	3.4	68	3.3	1.6	1.4	2.2	9.2	9.9
SOLcliVEG1TXT	San_T3_C_1_SOC3	9	9	6.7	4.3	64	5.1	2.4	1.8	3.5	11.5	13.4
SOLcliVEG1TXT	SAN_T4_B_1_SOC1	8	8	1.1	0.6	50	1.2	0.3	0.2	0.8	1.5	2.1
SOLcliVEG1TXT	SAN_T4_B_1_SOC2	8	8	1.5	0.8	52	1.3	0.5	0.3	1.0	2.1	2.8
SOLcliVEG1TXT	SAN_T4_B_1_SOC3	7	7	2.7	1.3	49	2.2	1.0	1.2	1.5	4.1	4.5
SOLcliVEG1TXT	SAN_T4_C_1_SOC1	9	9	0.9	0.6	66	0.9	0.4	0.1	0.3	1.4	1.8
SOLcliVEG1TXT	SAN_T4_C_1_SOC2	9	9	1.3	0.8	61	1.4	0.6	0.2	0.6	1.9	2.6
SOLcliVEG1TXT	SAN_T4_C_1_SOC3	9	9	2.0	1.2	59	2.2	0.7	0.4	1.0	2.8	4.1
SOLcliVEG1TXT	SAN_W1_A_1_SOC1	18	16	4.3	2.8	66	3.1	1.3	1.4	2.0	6.1	10.1
SOLcliVEG1TXT	SAN_W1_A_1_SOC2	18	16	5.4	3.5	65	3.8	1.4	1.5	2.6	8.9	12.1
SOLcliVEG1TXT	SAN_W1_A_1_SOC3	14	13	6.0	3.2	53	4.7	1.1	1.7	3.9	9.2	12.1
SOLcliVEG1TXT	SAN_W2_A_1_SOC1	35	32	1.3	0.5	38	1.3	0.4	0.3	0.9	1.7	2.2
SOLcliVEG1TXT	SAN_W2_A_1_SOC2	35	32	1.8	0.6	34	1.8	0.4	0.4	1.3	2.3	2.9
SOLcliVEG1TXT	SAN_W2_A_1_SOC3	32	30	2.8	0.9	31	2.8	0.6	0.7	2.1	3.4	4.4
SOLcliVEG1TXT	SAN_W2_B_1_SOC1	195	184	0.9	0.4	43	0.9	0.3	0.1	0.6	1.2	1.9
SOLcliVEG1TXT	SAN_W2_B_1_SOC2	192	185	1.4	0.6	40	1.3	0.4	0.1	1.0	1.8	2.9
SOLcliVEG1TXT	SAN_W2_B_1_SOC3	187	182	2.4	0.9	36	2.1	0.5	0.2	1.8	2.9	4.7
SOLcliVEG1TXT	SAN_W2_C_1_SOC1	54	52	1.1	0.4	37	1.0	0.3	0.4	0.8	1.3	2.1
SOLcliVEG1TXT	SAN_W2_C_1_SOC2	54	53	1.6	0.6	36	1.5	0.4	0.7	1.2	2.0	3.0
SOLcliVEG1TXT	SAN_W2_C_1_SOC3	51	49	2.5	0.7	28	2.4	0.4	1.5	1.9	2.8	4.2
SOLcliVEG1TXT	VOL_C1_A_2_SOC1	20	19	13.5	5.2	38	13.9	3.0	4.3	10.9	17.0	23.1
SOLcliVEG1TXT	VOL_C1_A_2_SOC2	20	19	19.0	7.4	39	18.9	4.9	5.1	15.2	24.8	31.2
SOLcliVEG1TXT	VOL_C1_A_2_SOC3	16	16	22.6	8.7	39	22.7	5.9	6.4	18.5	30.1	34.3
SOLcliVEG1TXT	VOL_W1_A_2_SOC1	15	13	14.0	4.1	29	15.4	1.4	4.4	11.6	16.5	19.1
SOLcliVEG1TXT	VOL_W1_A_2_SOC2	15	14	18.5	7.1	38	20.8	4.7	4.3	13.6	24.5	26.4
SOLcliVEG1TXT	VOL_W1_A_2_SOC3	14	13	28.8	14.1	49	28.8	6.4	6.7	18.9	33.3	61.5
SOLcliVEG1TXT	VOL_W1_C_2_SOC1	7	7	12.2	3.4	28	13.8	2.8	8.4	8.5	14.6	16.6
SOLcliVEG1TXT	VOL_W1_C_2_SOC2	7	7	18.2	6.1	34	20.2	4.5	11.2	11.3	23.5	24.7
SOLcliVEG1TXT	VOL_W1_C_2_SOC3	6	6	29.1	11.9	41	29.8	9.9	14.1	16.7	39.4	45.8
SOLcliVEG1TXT	WET_C1_C_2_SOC1	6	6	16.6	7.7	46	14.9	5.6	8.0	9.9	25.0	27.0
SOLcliVEG1TXT	WET_C1_C_2_SOC2	6	6	18.5	7.5	41	17.1	5.9	9.8	12.0	26.8	28.1
SOLcliVEG1TXT	WET_C1_C_2_SOC3	6	6	19.9	7.3	36	18.3	5.2	11.5	14.0	28.1	28.9
SOLcliVEG1TXT	WET_T2_A_2_SOC1	9	8	4.6	1.8	39	4.3	0.8	2.2	3.4	6.0	7.9
SOLcliVEG1TXT	WET_T2_A_2_SOC2	9	8	6.1	2.1	35	5.7	1.3	3.3	4.5	8.0	9.8
SOLcliVEG1TXT	WET_T2_A_2_SOC3	8	7	8.6	3.0	35	7.4	2.5	4.9	6.4	11.4	12.9
SOLcliVEG1TXT	WET_T3_A_2_SOC1	6	6	6.5	5.3	81	4.0	1.4	2.5	2.7	11.9	15.5
SOLcliVEG1TXT	WET_T3_A_2_SOC2	6	6	8.5	7.0	82	5.1	1.9	2.8	3.4	16.3	19.2
SOLcliVEG1TXT	WET_T3_A_3_SOC1	6	6	5.5	3.0	55	4.3	1.3	2.1	3.5	9.0	9.8
SOLcliVEG1TXT	WET_T3_A_3_SOC2	6	6	7.2	3.9	54	5.6	1.5	3.0	4.6	11.4	13.0
SOLcliVEG1TXT	WET_T3_A_3_SOC3	6	6	9.4	4.5	48	7.8	2.3	4.3	6.2	14.1	16.3
SOLcliVEG1TXT	WET_W2_B_3_SOC1	15	15	6.6	4.6	70	4.2	1.9	2.3	3.1	10.0	17.1
SOLcliVEG1TXT	WET_W2_B_3_SOC2	14	14	11.0	7.8	71	8.7	5.2	3.0	4.3	15.7	27.2
SOLcliVEG1TXT	WET_W2_B_3_SOC3	14	14	18.4	15.2	82	15.0	9.5	4.0	5.7	27.7	57.6

IPCCcase	LONGID	N0	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliVEG1TXT	WET_W2_C_3_SOC1	12	12	8.9	3.6	40	8.8	2.6	2.6	6.5	12.5	14.2
SOLcliVEG1TXT	WET_W2_C_3_SOC2	12	12	13.7	5.3	38	13.6	4.4	3.9	9.3	18.5	20.9
SOLcliVEG1TXT	WET_W2_C_3_SOC3	12	12	23.1	9.8	42	23.0	7.4	6.1	14.1	33.3	36.0
SOLcliVEG2TXT	HAC_Bx_AE_2_SOC1	10	9	5.0	2.7	55	5.5	2.0	1.4	2.2	7.3	8.8
SOLcliVEG2TXT	HAC_Bx_AE_2_SOC2	10	9	7.2	4.5	62	7.9	4.5	1.6	2.9	11.0	14.2
SOLcliVEG2TXT	HAC_Bx_BT_2_SOC1	6	6	6.2	2.4	39	5.9	1.5	2.3	4.6	8.6	9.1
SOLcliVEG2TXT	HAC_Bx_BT_2_SOC2	6	6	9.6	4.8	50	8.5	3.4	3.8	5.8	14.7	16.5
SOLcliVEG2TXT	HAC_C1_AE_2_SOC1	22	21	6.8	4.3	63	6.0	2.5	1.3	3.3	9.7	18.2
SOLcliVEG2TXT	HAC_C1_AE_2_SOC2	20	19	8.0	4.3	54	7.0	2.7	2.2	4.3	10.5	17.3
SOLcliVEG2TXT	HAC_C1_AE_2_SOC3	16	15	9.1	4.2	47	9.1	3.0	3.2	5.5	12.1	19.1
SOLcliVEG2TXT	HAC_C1_AE_3_SOC1	8	8	9.7	4.1	42	10.4	2.4	4.6	5.9	11.5	17.3
SOLcliVEG2TXT	HAC_C1_AE_3_SOC2	7	7	12.2	4.5	37	14.0	4.1	6.7	7.8	16.1	18.1
SOLcliVEG2TXT	HAC_C1_Au_2_SOC1	6	6	16.2	10.2	63	17.5	8.6	3.4	5.2	24.8	30.0
SOLcliVEG2TXT	HAC_C1_Au_2_SOC2	6	6	19.4	12.6	65	19.9	10.8	4.5	6.4	30.7	36.8
SOLcliVEG2TXT	HAC_C1_AY_1_SOC1	8	8	6.7	3.0	45	6.1	1.5	3.9	4.3	8.1	13.0
SOLcliVEG2TXT	HAC_C1_AY_1_SOC2	7	7	8.1	4.3	53	6.6	1.6	4.8	5.0	10.1	16.9
SOLcliVEG2TXT	HAC_C1_AY_2_SOC1	83	77	8.6	4.3	50	7.8	2.9	1.2	5.4	11.5	20.6
SOLcliVEG2TXT	HAC_C1_AY_2_SOC2	83	76	9.9	4.6	46	8.8	2.9	1.4	6.4	13.0	23.5
SOLcliVEG2TXT	HAC_C1_AY_2_SOC3	70	64	11.4	4.5	40	10.5	2.5	1.9	8.5	14.1	22.1
SOLcliVEG2TXT	HAC_C1_AY_3_SOC1	25	25	11.3	5.2	47	11.2	4.0	3.2	7.1	15.0	26.0
SOLcliVEG2TXT	HAC_C1_AY_3_SOC2	25	24	13.3	5.2	39	14.2	4.3	3.8	9.4	17.8	23.0
SOLcliVEG2TXT	HAC_C1_AY_3_SOC3	15	15	17.4	7.2	41	16.6	5.0	4.8	11.6	22.8	30.2
SOLcliVEG2TXT	HAC_C1_BY_2_SOC1	6	6	6.9	4.3	62	7.8	3.1	1.7	2.1	9.9	13.0
SOLcliVEG2TXT	HAC_C1_BY_2_SOC2	6	6	8.5	4.7	56	10.0	2.9	2.3	3.0	12.2	14.2
SOLcliVEG2TXT	HAC_C1_CG_2_SOC1	9	9	6.4	3.3	51	6.5	2.2	1.1	3.8	9.0	11.2
SOLcliVEG2TXT	HAC_C1_CG_2_SOC2	9	9	8.9	4.5	50	10.5	3.5	1.5	5.1	12.8	14.0
SOLcliVEG2TXT	HAC_C1_CG_2_SOC3	8	8	11.5	6.9	60	11.0	4.8	2.1	5.8	18.0	21.7
SOLcliVEG2TXT	HAC_C1_CG_3_SOC1	8	8	7.4	3.3	44	7.0	2.3	3.7	4.2	10.4	12.8
SOLcliVEG2TXT	HAC_C1_CG_3_SOC2	8	8	10.7	5.3	49	9.8	3.0	5.3	6.0	14.3	21.1
SOLcliVEG2TXT	HAC_C1_CG_3_SOC3	8	8	16.0	8.6	54	14.6	4.9	7.9	9.1	20.4	34.2
SOLcliVEG2TXT	HAC_C2_BX_2_SOC1	12	12	3.2	1.9	60	2.5	0.9	1.3	1.7	4.7	7.0
SOLcliVEG2TXT	HAC_C2_BX_2_SOC2	12	12	4.3	2.4	55	3.4	1.3	2.1	2.3	6.7	8.6
SOLcliVEG2TXT	HAC_C2_BX_2_SOC3	8	8	6.5	3.0	47	6.1	1.8	2.9	4.1	9.7	11.4
SOLcliVEG2TXT	HAC_C2_BY_2_SOC1	12	12	5.3	2.6	50	4.8	1.8	2.1	3.1	7.2	10.6
SOLcliVEG2TXT	HAC_C2_BY_2_SOC2	11	11	8.0	4.3	54	6.2	1.7	2.5	4.7	10.5	16.3
SOLcliVEG2TXT	HAC_C2_BY_2_SOC3	10	10	12.3	7.4	60	10.3	3.6	3.2	7.4	16.4	27.0
SOLcliVEG2TXT	HAC_C2_CG_2_SOC1	25	24	4.6	3.1	66	4.3	2.3	0.9	1.7	6.0	11.4
SOLcliVEG2TXT	HAC_C2_CG_2_SOC2	23	22	6.8	4.8	70	5.8	3.3	1.1	2.5	10.0	18.6
SOLcliVEG2TXT	HAC_C2_CG_2_SOC3	20	19	10.5	7.1	68	8.5	4.2	2.5	4.4	14.7	27.6
SOLcliVEG2TXT	HAC_C2_CG_3_SOC1	9	9	6.8	3.3	48	5.6	1.2	3.7	4.4	8.3	14.0
SOLcliVEG2TXT	HAC_C2_CG_3_SOC2	9	9	9.1	3.7	41	8.4	1.3	5.4	6.5	11.0	17.2
SOLcliVEG2TXT	HAC_C2_CG_3_SOC3	8	8	11.6	3.4	29	10.2	1.8	8.4	8.7	15.1	16.8
SOLcliVEG2TXT	HAC_T1_AY_2_SOC1	8	7	3.8	2.5	66	2.9	0.7	1.8	2.2	4.8	9.0
SOLcliVEG2TXT	HAC_T1_AY_2_SOC2	8	8	7.3	6.6	91	4.9	2.1	2.7	2.8	10.5	21.9
SOLcliVEG2TXT	HAC_T1_AY_2_SOC3	8	8	10.4	8.5	82	8.2	4.3	3.5	3.8	14.9	28.2
SOLcliVEG2TXT	HAC_T1_AY_3_SOC1	13	12	7.1	1.3	18	6.9	0.7	5.3	6.2	8.0	9.6
SOLcliVEG2TXT	HAC_T1_AY_3_SOC2	13	13	9.7	2.9	30	10.0	1.6	3.8	8.3	11.6	14.2
SOLcliVEG2TXT	HAC_T1_AY_3_SOC3	12	12	15.6	5.5	35	15.7	2.8	6.9	11.9	18.6	26.5
SOLcliVEG2TXT	HAC_T1_CG_3_SOC1	7	7	5.5	1.1	21	5.2	0.8	4.3	4.4	6.3	7.5
SOLcliVEG2TXT	HAC_T1_CG_3_SOC2	7	7	8.2	1.7	21	7.9	1.1	6.4	6.7	9.0	11.4
SOLcliVEG2TXT	HAC_T1_CG_3_SOC3	6	6	13.2	3.2	24	12.0	0.8	11.0	11.4	14.8	19.5
SOLcliVEG2TXT	HAC_T2_AE_2_SOC1	33	32	5.4	2.7	49	4.9	1.4	1.5	3.5	6.7	11.9

IPCCcase	LONGID	NO	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliVEG2TXT	HAC_T2_AE_2_SOC2	32	32	7.2	3.2	44	6.6	1.8	2.3	4.9	9.0	13.8
SOLcliVEG2TXT	HAC_T2_AE_2_SOC3	27	25	8.6	3.0	34	8.1	1.6	3.7	6.9	10.4	15.5
SOLcliVEG2TXT	HAC_T2_AE_3_SOC1	22	22	6.8	3.3	49	6.2	2.4	2.4	3.8	8.9	13.9
SOLcliVEG2TXT	HAC_T2_AE_3_SOC2	22	22	9.0	4.1	45	8.3	2.9	3.5	5.5	11.8	17.2
SOLcliVEG2TXT	HAC_T2_AE_3_SOC3	16	16	12.6	7.0	56	10.3	3.3	4.8	7.1	18.3	29.0
SOLcliVEG2TXT	HAC_T2_CG_2_SOC1	6	6	3.4	2.0	60	3.4	1.1	1.2	1.4	4.5	6.8
SOLcliVEG2TXT	HAC_T3_AE_2_SOC1	11	11	8.2	6.1	75	5.3	2.9	2.4	3.4	10.6	20.7
SOLcliVEG2TXT	HAC_T3_AE_2_SOC2	10	9	8.6	6.0	69	6.2	2.7	3.5	4.3	12.3	21.8
SOLcliVEG2TXT	HAC_T3_AE_2_SOC3	8	7	12.7	6.8	53	12.1	3.8	5.9	7.6	14.7	26.0
SOLcliVEG2TXT	HAC_T3_AE_3_SOC1	9	9	10.2	4.7	46	11.6	4.4	3.4	5.3	14.2	16.3
SOLcliVEG2TXT	HAC_T3_AE_3_SOC2	9	9	14.1	6.6	47	13.7	5.9	4.4	8.0	20.0	24.3
SOLcliVEG2TXT	HAC_T3_AE_3_SOC3	6	6	20.3	11.5	56	21.7	9.2	6.6	8.3	29.5	36.0
SOLcliVEG2TXT	HAC_T3_AY_1_SOC1	6	6	3.7	2.1	57	4.0	2.0	1.2	1.3	5.8	6.1
SOLcliVEG2TXT	HAC_T3_AY_2_SOC1	21	19	3.0	1.3	41	2.9	0.9	1.4	1.9	3.8	5.7
SOLcliVEG2TXT	HAC_T3_AY_2_SOC2	20	18	4.0	1.8	45	3.7	1.2	1.8	2.5	5.1	8.2
SOLcliVEG2TXT	HAC_T3_AY_2_SOC3	19	18	5.7	2.6	45	5.1	1.5	2.6	3.6	7.5	12.6
SOLcliVEG2TXT	HAC_T3_AY_3_SOC1	18	18	4.6	1.8	39	4.6	1.1	1.7	3.2	5.7	8.6
SOLcliVEG2TXT	HAC_T3_AY_3_SOC2	17	17	6.3	2.4	38	6.4	2.0	2.2	4.2	8.0	10.1
SOLcliVEG2TXT	HAC_T3_AY_3_SOC3	14	14	9.4	3.3	35	9.4	2.3	3.4	7.0	12.0	15.5
SOLcliVEG2TXT	HAC_T3_CG_2_SOC1	10	10	4.7	3.7	78	2.8	0.6	2.1	2.4	7.8	12.9
SOLcliVEG2TXT	HAC_T3_CG_2_SOC2	10	10	6.3	4.0	64	4.2	0.6	3.2	3.8	10.4	14.5
SOLcliVEG2TXT	HAC_T3_CG_2_SOC3	7	7	8.4	4.3	52	6.8	0.9	4.3	5.9	12.5	16.4
SOLcliVEG2TXT	HAC_T3_CG_3_SOC1	13	12	3.8	1.4	37	3.2	0.5	2.6	2.8	4.6	7.5
SOLcliVEG2TXT	HAC_T3_CG_3_SOC2	12	11	4.9	1.1	23	4.8	0.8	3.3	4.0	5.9	7.0
SOLcliVEG2TXT	HAC_T3_CG_3_SOC3	11	10	7.5	1.9	25	6.9	1.3	5.2	5.9	9.3	11.1
SOLcliVEG2TXT	HAC_T4_AY_2_SOC1	11	11	4.2	2.8	66	2.7	1.0	1.7	1.8	6.5	10.5
SOLcliVEG2TXT	HAC_T4_AY_2_SOC2	11	11	5.5	3.3	60	3.8	1.5	2.0	2.7	8.6	12.2
SOLcliVEG2TXT	HAC_T4_AY_2_SOC3	8	8	7.3	3.6	49	6.4	3.1	2.7	4.3	10.7	12.5
SOLcliVEG2TXT	HAC_T4_AY_3_SOC1	9	9	4.9	2.1	44	4.3	1.6	2.0	3.1	6.8	8.4
SOLcliVEG2TXT	HAC_T4_AY_3_SOC2	9	9	7.2	3.3	46	6.0	2.2	2.7	4.7	9.7	13.2
SOLcliVEG2TXT	HAC_T4_AY_3_SOC3	8	8	9.3	3.8	40	8.8	3.3	4.2	5.9	12.9	14.8
SOLcliVEG2TXT	HAC_T4_BX_2_SOC1	16	15	2.0	1.6	76	1.7	0.8	0.2	1.0	2.9	5.6
SOLcliVEG2TXT	HAC_T4_BX_2_SOC2	16	13	2.3	1.1	47	2.5	0.8	0.3	1.5	3.3	3.9
SOLcliVEG2TXT	HAC_T4_BX_2_SOC3	10	10	5.1	4.0	78	3.9	1.8	0.5	2.3	6.8	13.4
SOLcliVEG2TXT	HAC_T4_BX_3_SOC1	12	12	3.1	1.1	36	3.2	0.4	1.1	2.4	3.6	5.3
SOLcliVEG2TXT	HAC_T4_BX_3_SOC2	12	11	4.4	1.2	27	4.7	0.5	2.3	3.3	5.2	6.1
SOLcliVEG2TXT	HAC_T4_BX_3_SOC3	10	9	7.7	1.2	16	7.4	0.8	5.8	6.8	8.6	9.7
SOLcliVEG2TXT	HAC_T4_BY_3_SOC1	7	7	3.3	1.2	36	3.0	0.4	1.3	2.8	4.3	5.0
SOLcliVEG2TXT	HAC_T4_BY_3_SOC2	7	7	4.9	1.6	33	4.5	0.4	2.1	4.5	6.7	7.0
SOLcliVEG2TXT	HAC_T4_BY_3_SOC3	6	6	8.6	1.8	21	8.4	1.2	6.0	7.3	10.3	11.0
SOLcliVEG2TXT	HAC_T4_CG_2_SOC1	9	9	2.5	1.4	54	2.7	1.3	0.7	1.1	3.5	4.8
SOLcliVEG2TXT	HAC_T4_CG_2_SOC2	8	8	3.7	1.6	44	3.8	1.3	1.2	2.4	5.4	5.8
SOLcliVEG2TXT	HAC_T4_CG_2_SOC3	7	7	5.7	2.3	40	6.9	1.1	2.8	3.3	7.7	8.0
SOLcliVEG2TXT	HAC_T4_CG_3_SOC1	28	27	2.8	1.6	57	2.2	0.6	0.7	1.8	3.6	6.7
SOLcliVEG2TXT	HAC_T4_CG_3_SOC2	28	26	4.0	1.8	45	3.6	0.7	1.0	2.9	4.8	8.4
SOLcliVEG2TXT	HAC_T4_CG_3_SOC3	26	24	6.8	2.7	40	6.4	1.3	1.7	5.7	8.1	12.4
SOLcliVEG2TXT	HAC_W1_AE_2_SOC1	22	21	5.3	2.6	49	5.7	2.4	1.1	2.8	7.0	10.3
SOLcliVEG2TXT	HAC_W1_AE_2_SOC2	21	20	6.6	3.3	49	6.9	2.7	1.3	3.9	9.4	13.1
SOLcliVEG2TXT	HAC_W1_AE_2_SOC3	20	18	7.6	3.3	43	8.3	2.5	1.4	5.4	10.1	14.2
SOLcliVEG2TXT	HAC_W1_AE_3_SOC1	11	10	5.2	2.7	51	5.3	1.8	1.7	2.7	6.9	10.0
SOLcliVEG2TXT	HAC_W1_AE_3_SOC2	11	10	7.1	3.3	47	7.2	2.7	2.5	4.1	10.2	11.6
SOLcliVEG2TXT	HAC_W1_AE_3_SOC3	8	7	10.3	4.8	46	9.2	2.1	3.7	7.1	15.4	17.5

IPCCcase	LONGID	N0	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliVEG2TXT	HAC_W1_AY_1_SOC1	6	6	6.9	4.5	65	5.8	2.9	2.3	3.2	11.0	14.2
SOLcliVEG2TXT	HAC_W1_AY_2_SOC1	62	60	5.9	3.2	54	5.1	1.8	0.9	3.7	7.5	14.0
SOLcliVEG2TXT	HAC_W1_AY_2_SOC2	57	53	7.3	3.9	53	6.5	2.1	1.2	4.8	9.7	17.2
SOLcliVEG2TXT	HAC_W1_AY_2_SOC3	44	40	8.8	4.2	47	8.8	2.3	1.6	5.6	11.0	18.8
SOLcliVEG2TXT	HAC_W1_AY_3_SOC1	30	28	7.5	3.2	42	7.3	2.0	1.4	5.5	9.6	13.8
SOLcliVEG2TXT	HAC_W1_AY_3_SOC2	30	29	10.2	4.6	45	10.0	3.0	2.2	6.9	13.1	21.4
SOLcliVEG2TXT	HAC_W1_AY_3_SOC3	22	20	11.7	4.2	36	11.2	2.5	5.3	8.7	14.3	23.2
SOLcliVEG2TXT	HAC_W1_BY_2_SOC1	6	6	11.6	8.8	76	9.1	5.4	3.3	3.8	21.2	24.3
SOLcliVEG2TXT	HAC_W1_BY_2_SOC2	6	6	15.2	11.0	73	12.7	7.9	4.8	4.8	26.4	31.2
SOLcliVEG2TXT	HAC_W1_CG_2_SOC1	25	24	7.3	5.4	74	5.0	1.7	1.1	3.5	10.7	19.3
SOLcliVEG2TXT	HAC_W1_CG_2_SOC2	24	21	7.8	5.2	67	5.9	1.5	1.7	4.6	10.0	22.7
SOLcliVEG2TXT	HAC_W1_CG_2_SOC3	20	18	9.5	6.2	65	7.5	1.6	3.0	6.0	10.4	24.4
SOLcliVEG2TXT	HAC_W1_CG_3_SOC1	23	23	7.7	3.3	42	7.5	2.5	3.7	4.9	9.8	15.0
SOLcliVEG2TXT	HAC_W1_CG_3_SOC2	21	19	8.9	3.1	35	9.0	2.4	5.0	5.8	11.0	16.3
SOLcliVEG2TXT	HAC_W1_CG_3_SOC3	18	17	11.5	4.1	35	11.6	3.2	6.7	8.2	13.8	19.3
SOLcliVEG2TXT	HAC_W2_AY_1_SOC1	11	11	1.1	0.5	45	1.1	0.5	0.4	0.7	1.6	1.9
SOLcliVEG2TXT	HAC_W2_AY_1_SOC2	11	11	1.7	0.7	39	1.7	0.6	0.8	1.1	2.4	2.8
SOLcliVEG2TXT	HAC_W2_AY_1_SOC3	8	8	3.0	1.1	36	2.6	0.7	1.9	2.0	4.2	4.3
SOLcliVEG2TXT	HAC_W2_AY_2_SOC1	39	36	2.9	1.7	59	2.5	0.9	0.8	1.6	3.7	6.8
SOLcliVEG2TXT	HAC_W2_AY_2_SOC2	39	35	3.8	1.9	51	3.3	1.4	1.1	2.6	5.0	8.6
SOLcliVEG2TXT	HAC_W2_AY_2_SOC3	30	26	5.0	1.8	35	4.9	1.5	2.2	3.4	6.4	8.3
SOLcliVEG2TXT	HAC_W2_AY_3_SOC1	24	22	3.8	1.9	51	3.7	1.5	1.0	2.0	4.9	8.1
SOLcliVEG2TXT	HAC_W2_AY_3_SOC2	23	21	5.4	2.5	47	5.3	1.9	1.4	3.1	6.9	11.8
SOLcliVEG2TXT	HAC_W2_AY_3_SOC3	17	17	9.2	4.5	49	9.7	2.3	2.4	5.6	11.9	21.2
SOLcliVEG2TXT	HAC_W2_BX_1_SOC1	10	10	0.9	0.7	79	0.6	0.4	0.1	0.3	1.6	1.9
SOLcliVEG2TXT	HAC_W2_BX_1_SOC2	10	10	1.3	0.9	73	0.9	0.6	0.2	0.5	2.3	2.5
SOLcliVEG2TXT	HAC_W2_BX_1_SOC3	8	8	2.3	1.5	63	2.3	1.5	0.7	0.8	3.8	4.4
SOLcliVEG2TXT	HAC_W2_BX_2_SOC1	37	36	1.3	0.9	69	1.0	0.6	0.1	0.6	1.6	3.9
SOLcliVEG2TXT	HAC_W2_BX_2_SOC2	37	35	1.9	1.1	58	1.7	0.7	0.2	1.0	2.4	4.4
SOLcliVEG2TXT	HAC_W2_BX_2_SOC3	28	27	3.2	1.5	47	3.1	1.3	1.0	1.8	4.5	6.1
SOLcliVEG2TXT	HAC_W2_BX_3_SOC1	16	16	2.7	1.6	57	2.5	1.1	0.6	1.3	4.3	5.5
SOLcliVEG2TXT	HAC_W2_BX_3_SOC2	15	15	4.2	2.8	67	3.3	1.5	0.9	1.8	6.9	10.2
SOLcliVEG2TXT	HAC_W2_BX_3_SOC3	13	13	6.4	3.7	58	5.3	1.1	1.3	3.8	8.8	13.2
SOLcliVEG2TXT	HAC_W2_BY_1_SOC1	85	76	1.0	0.4	44	1.0	0.3	0.4	0.7	1.2	2.3
SOLcliVEG2TXT	HAC_W2_BY_1_SOC2	85	80	1.6	0.7	46	1.5	0.4	0.6	1.1	1.8	3.8
SOLcliVEG2TXT	HAC_W2_BY_1_SOC3	70	67	2.7	1.1	40	2.4	0.5	1.1	2.0	3.3	5.7
SOLcliVEG2TXT	HAC_W2_BY_2_SOC1	111	106	1.8	0.8	46	1.7	0.5	0.4	1.2	2.2	3.8
SOLcliVEG2TXT	HAC_W2_BY_2_SOC2	107	102	2.7	1.1	41	2.7	0.7	0.7	1.8	3.3	6.0
SOLcliVEG2TXT	HAC_W2_BY_2_SOC3	62	59	4.3	1.3	29	4.4	0.7	1.7	3.6	5.0	7.8
SOLcliVEG2TXT	HAC_W2_BY_3_SOC1	57	55	2.9	1.4	47	2.7	1.0	0.4	1.9	3.8	6.8
SOLcliVEG2TXT	HAC_W2_BY_3_SOC2	57	55	4.4	2.1	47	4.0	1.3	0.6	3.0	5.8	10.3
SOLcliVEG2TXT	HAC_W2_BY_3_SOC3	42	40	6.8	2.9	42	6.6	2.2	1.2	4.6	9.4	14.0
SOLcliVEG2TXT	HAC_W2_CG_1_SOC1	21	21	1.5	0.8	51	1.4	0.5	0.4	0.9	2.0	3.4
SOLcliVEG2TXT	HAC_W2_CG_1_SOC2	20	20	2.1	1.0	49	2.0	0.8	0.7	1.2	3.0	4.6
SOLcliVEG2TXT	HAC_W2_CG_1_SOC3	17	17	3.3	1.5	47	2.6	0.7	1.7	2.0	4.7	6.3
SOLcliVEG2TXT	HAC_W2_CG_2_SOC1	36	35	2.3	1.0	43	2.0	0.5	0.6	1.6	2.7	4.7
SOLcliVEG2TXT	HAC_W2_CG_2_SOC2	35	34	3.2	1.2	39	2.9	0.7	1.1	2.3	3.8	5.9
SOLcliVEG2TXT	HAC_W2_CG_2_SOC3	21	20	4.8	2.0	41	4.4	1.5	2.0	3.0	6.2	8.9
SOLcliVEG2TXT	HAC_W2_CG_3_SOC1	43	41	3.0	1.5	48	2.8	1.2	0.8	1.8	4.1	6.9
SOLcliVEG2TXT	HAC_W2_CG_3_SOC2	42	41	4.5	2.2	50	4.2	1.9	1.2	2.7	6.1	10.8
SOLcliVEG2TXT	HAC_W2_CG_3_SOC3	32	32	6.9	3.6	53	6.6	2.3	1.9	3.7	9.0	15.4
SOLcliVEG2TXT	LAC_T1_AY_2_SOC1	13	13	3.0	1.1	37	2.9	1.0	1.3	2.0	4.2	4.7

IPCCcase	LONGID	NO	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliVEG2TXT	LAC_T1_AY_2_SOC2	13	13	4.0	1.5	36	3.8	1.0	1.7	2.8	5.3	6.3
SOLcliVEG2TXT	LAC_T1_AY_2_SOC3	12	12	5.8	2.3	39	5.8	1.5	2.3	4.0	7.1	9.8
SOLcliVEG2TXT	LAC_T1_AY_3_SOC1	13	12	6.5	2.3	36	6.3	0.6	2.7	5.8	7.1	10.7
SOLcliVEG2TXT	LAC_T1_AY_3_SOC2	13	12	8.7	2.9	33	8.5	1.0	3.5	7.4	10.1	13.9
SOLcliVEG2TXT	LAC_T1_AY_3_SOC3	13	12	12.5	4.3	35	12.1	2.7	4.3	9.5	15.2	20.8
SOLcliVEG2TXT	LAC_T2_AE_2_SOC1	48	46	4.0	1.6	41	3.8	1.2	1.4	2.7	5.2	8.0
SOLcliVEG2TXT	LAC_T2_AE_2_SOC2	47	46	5.6	2.3	40	5.3	1.9	1.9	4.0	7.4	11.8
SOLcliVEG2TXT	LAC_T2_AE_2_SOC3	45	44	8.2	3.1	38	7.6	2.3	3.1	6.0	10.4	17.0
SOLcliVEG2TXT	LAC_T2_AE_3_SOC1	100	97	5.7	2.4	42	5.2	1.9	1.6	3.8	7.5	13.0
SOLcliVEG2TXT	LAC_T2_AE_3_SOC2	99	96	7.4	2.9	39	7.0	2.0	2.2	5.3	9.5	16.1
SOLcliVEG2TXT	LAC_T2_AE_3_SOC3	93	89	10.4	3.6	35	9.8	2.5	4.1	7.3	12.6	19.7
SOLcliVEG2TXT	LAC_T2_AY_2_SOC1	6	6	4.0	2.6	63	3.3	0.6	1.4	2.7	5.4	8.9
SOLcliVEG2TXT	LAC_T2_AY_2_SOC2	6	6	5.3	3.1	58	4.3	1.1	2.0	3.6	7.6	11.0
SOLcliVEG2TXT	LAC_T2_AY_2_SOC3	6	6	7.5	4.0	54	6.0	1.7	3.3	4.9	10.9	14.6
SOLcliVEG2TXT	LAC_T2_AY_3_SOC1	12	12	7.6	4.8	63	6.8	2.8	2.5	3.9	10.8	17.0
SOLcliVEG2TXT	LAC_T2_AY_3_SOC2	12	12	10.1	6.1	61	8.2	2.4	3.8	5.8	14.1	21.4
SOLcliVEG2TXT	LAC_T2_AY_3_SOC3	12	12	13.4	7.3	54	10.9	2.2	5.9	8.7	18.6	27.7
SOLcliVEG2TXT	LAC_T2_CG_3_SOC1	16	16	8.3	3.1	38	7.5	1.0	2.6	7.0	10.7	15.7
SOLcliVEG2TXT	LAC_T2_CG_3_SOC2	16	14	10.8	2.2	21	10.1	1.0	5.8	9.5	12.9	14.3
SOLcliVEG2TXT	LAC_T2_CG_3_SOC3	12	11	14.0	2.3	17	14.2	1.5	8.5	12.7	16.2	16.7
SOLcliVEG2TXT	LAC_T3_AE_2_SOC1	28	27	3.9	1.9	48	3.2	1.3	1.6	2.4	5.3	8.3
SOLcliVEG2TXT	LAC_T3_AE_2_SOC2	28	27	5.2	2.3	45	4.4	1.2	2.5	3.5	6.6	10.5
SOLcliVEG2TXT	LAC_T3_AE_2_SOC3	26	25	7.1	2.8	39	6.7	1.5	3.4	5.1	8.6	12.9
SOLcliVEG2TXT	LAC_T3_AE_3_SOC1	25	24	5.0	2.1	41	4.7	1.5	2.1	3.3	6.4	9.8
SOLcliVEG2TXT	LAC_T3_AE_3_SOC2	25	24	6.5	2.5	39	6.1	1.5	2.9	4.5	7.6	12.6
SOLcliVEG2TXT	LAC_T3_AE_3_SOC3	23	22	9.0	3.1	35	8.3	2.1	5.1	6.6	10.9	16.6
SOLcliVEG2TXT	LAC_T3_AY_2_SOC1	24	24	3.5	1.3	36	3.0	0.8	1.7	2.5	4.7	5.9
SOLcliVEG2TXT	LAC_T3_AY_2_SOC2	24	24	4.5	1.6	36	4.0	0.9	2.1	3.3	5.9	7.9
SOLcliVEG2TXT	LAC_T3_AY_2_SOC3	20	19	5.9	1.9	31	5.8	1.2	2.7	5.0	7.1	9.3
SOLcliVEG2TXT	LAC_T3_AY_3_SOC1	33	32	4.3	2.5	58	3.3	1.2	1.4	2.3	5.9	10.0
SOLcliVEG2TXT	LAC_T3_AY_3_SOC2	33	32	5.6	3.2	57	4.6	1.8	2.0	2.9	7.3	13.9
SOLcliVEG2TXT	LAC_T3_AY_3_SOC3	28	27	8.3	4.0	48	7.1	2.4	3.3	5.7	10.4	18.0
SOLcliVEG2TXT	LAC_T3_BY_2_SOC1	6	6	2.8	1.4	52	2.5	1.0	1.1	1.6	4.3	4.8
SOLcliVEG2TXT	LAC_T3_BY_2_SOC2	6	6	3.9	1.7	43	3.8	1.3	1.8	2.3	5.4	6.3
SOLcliVEG2TXT	LAC_T3_BY_2_SOC3	6	6	5.8	2.2	38	5.9	1.4	2.8	3.7	7.4	9.0
SOLcliVEG2TXT	LAC_T3_BY_3_SOC1	6	6	4.8	1.2	26	5.1	0.9	3.0	3.4	5.8	6.2
SOLcliVEG2TXT	LAC_T3_BY_3_SOC2	6	6	6.4	1.7	26	6.9	1.0	3.8	4.6	7.7	8.1
SOLcliVEG2TXT	LAC_T3_BY_3_SOC3	6	6	8.8	2.2	25	9.5	1.4	5.7	6.4	10.4	11.8
SOLcliVEG2TXT	LAC_T3_CG_1_SOC1	6	6	2.1	0.7	36	2.0	0.5	1.1	1.5	2.8	3.2
SOLcliVEG2TXT	LAC_T3_CG_1_SOC2	6	6	2.9	1.1	39	2.5	0.6	1.5	2.1	4.1	4.3
SOLcliVEG2TXT	LAC_T3_CG_1_SOC3	6	6	4.3	1.9	43	3.9	1.3	2.3	2.8	6.0	7.5
SOLcliVEG2TXT	LAC_T3_CG_2_SOC1	17	15	2.4	1.0	42	2.3	0.7	1.0	1.6	3.0	5.1
SOLcliVEG2TXT	LAC_T3_CG_2_SOC2	17	15	3.3	1.3	40	3.1	0.8	1.5	2.3	4.1	6.6
SOLcliVEG2TXT	LAC_T3_CG_2_SOC3	17	15	4.8	1.8	38	4.5	1.1	2.5	3.6	5.9	8.7
SOLcliVEG2TXT	LAC_T3_CG_3_SOC1	23	23	5.8	3.2	56	4.9	1.9	0.7	3.1	8.6	11.7
SOLcliVEG2TXT	LAC_T3_CG_3_SOC2	23	23	8.1	4.4	55	6.9	3.1	0.9	4.3	11.8	15.5
SOLcliVEG2TXT	LAC_T3_CG_3_SOC3	22	22	12.4	7.0	56	10.9	5.7	1.1	6.2	19.1	25.8
SOLcliVEG2TXT	LAC_T4_AY_2_SOC1	6	6	2.0	0.5	25	2.0	0.4	1.4	1.6	2.6	2.7
SOLcliVEG2TXT	LAC_T4_AY_2_SOC2	6	6	2.9	0.7	24	2.8	0.6	2.0	2.3	3.7	3.8
SOLcliVEG2TXT	LAC_T4_AY_2_SOC3	6	6	4.5	1.2	28	4.7	1.1	3.0	3.0	5.7	5.8
SOLcliVEG2TXT	LAC_W1_AE_2_SOC1	18	16	4.5	1.8	41	4.3	1.3	1.7	2.9	5.8	8.1
SOLcliVEG2TXT	LAC_W1_AE_2_SOC2	18	17	6.2	3.2	52	5.5	2.0	2.1	3.7	8.0	15.2

IPCCcase	LONGID	N0	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliVEG2TXT	LAC_W1_AE_2_SOC3	17	16	8.0	3.8	48	7.5	2.7	2.3	5.3	10.7	17.0
SOLcliVEG2TXT	LAC_W1_AE_3_SOC1	16	16	8.9	4.5	51	9.6	3.9	1.6	4.5	12.5	16.8
SOLcliVEG2TXT	LAC_W1_AE_3_SOC2	16	16	11.6	5.9	51	11.7	5.2	2.2	6.4	16.8	20.1
SOLcliVEG2TXT	LAC_W1_AE_3_SOC3	16	16	15.5	7.7	50	14.8	5.4	3.2	9.7	22.1	32.0
SOLcliVEG2TXT	LAC_W1_AY_1_SOC1	6	6	4.0	2.5	63	3.1	1.0	1.6	2.2	6.3	8.3
SOLcliVEG2TXT	LAC_W1_AY_1_SOC2	6	6	5.0	3.0	61	3.7	0.9	2.2	3.0	7.5	10.4
SOLcliVEG2TXT	LAC_W1_AY_2_SOC1	18	18	4.3	2.5	59	3.5	1.5	1.2	2.3	6.5	9.7
SOLcliVEG2TXT	LAC_W1_AY_2_SOC2	18	18	5.3	3.0	56	5.1	2.2	1.5	2.6	7.4	10.8
SOLcliVEG2TXT	LAC_W1_AY_2_SOC3	14	13	5.5	2.7	48	5.2	2.2	2.4	3.2	7.8	10.3
SOLcliVEG2TXT	LAC_W1_AY_3_SOC1	29	27	4.5	2.7	60	4.1	1.2	0.3	2.6	5.2	11.2
SOLcliVEG2TXT	LAC_W1_AY_3_SOC2	29	26	5.5	3.1	56	5.0	1.4	0.4	3.7	6.7	14.8
SOLcliVEG2TXT	LAC_W1_AY_3_SOC3	28	25	7.7	4.0	53	7.3	1.7	0.5	5.6	9.4	20.2
SOLcliVEG2TXT	LAC_W1_CG_3_SOC1	13	11	8.7	1.3	15	8.7	1.0	7.1	7.6	9.5	11.5
SOLcliVEG2TXT	LAC_W1_CG_3_SOC2	13	11	12.0	1.4	11	11.9	0.6	9.8	11.3	12.9	14.9
SOLcliVEG2TXT	LAC_W1_CG_3_SOC3	12	11	15.5	2.9	19	15.2	1.6	9.6	13.9	17.9	20.1
SOLcliVEG2TXT	LAC_W2_AY_2_SOC1	6	6	3.0	1.8	58	2.8	0.8	1.1	1.8	4.2	6.1
SOLcliVEG2TXT	LAC_W2_AY_2_SOC2	6	6	3.8	1.9	49	3.5	0.5	1.7	2.6	4.8	7.2
SOLcliVEG2TXT	LAC_W2_AY_2_SOC3	6	6	5.4	2.0	37	4.9	0.5	3.2	4.3	6.5	9.1
SOLcliVEG2TXT	LAC_W2_BY_1_SOC1	7	7	1.3	0.6	43	1.4	0.5	0.5	0.8	1.8	2.0
SOLcliVEG2TXT	LAC_W2_BY_1_SOC2	7	7	2.0	0.7	35	2.1	0.6	1.0	1.4	2.7	2.9
SOLcliVEG2TXT	LAC_W2_BY_1_SOC3	6	6	3.3	1.1	34	3.3	0.9	1.6	2.4	4.5	4.6
SOLcliVEG2TXT	LAC_W2_BY_2_SOC1	12	12	1.3	0.4	30	1.3	0.3	0.8	1.1	1.7	2.1
SOLcliVEG2TXT	LAC_W2_BY_2_SOC2	12	12	2.0	0.6	28	2.0	0.3	1.3	1.4	2.4	3.1
SOLcliVEG2TXT	LAC_W2_BY_2_SOC3	9	9	3.4	1.0	29	3.2	0.7	2.2	2.5	4.1	5.2
SOLcliVEG2TXT	ORG_C1_CE_4_SOC1	12	12	35.1	12.7	36	35.5	8.0	14.6	25.0	44.4	56.3
SOLcliVEG2TXT	ORG_C1_CE_4_SOC2	11	11	54.4	21.4	39	57.1	13.5	17.1	39.6	68.6	93.5
SOLcliVEG2TXT	ORG_C1_CE_4_SOC3	10	10	98.1	37.7	38	108.9	16.0	21.7	75.3	117.3	159.7
SOLcliVEG2TXT	POD_C1_AE_2_SOC1	7	7	14.1	6.4	45	14.5	5.6	7.0	8.3	18.4	24.3
SOLcliVEG2TXT	POD_C1_AE_2_SOC2	6	6	22.4	9.0	40	22.8	8.6	10.8	13.3	31.7	32.4
SOLcliVEG2TXT	POD_C1_AY_2_SOC1	15	15	14.9	9.5	64	11.5	4.1	5.0	8.1	22.0	37.5
SOLcliVEG2TXT	POD_C1_AY_2_SOC2	14	14	21.5	13.2	61	16.1	7.5	7.1	12.0	36.8	44.0
SOLcliVEG2TXT	POD_C1_AY_2_SOC3	9	9	33.9	26.6	78	26.7	17.6	7.7	11.5	51.5	88.7
SOLcliVEG2TXT	SAN_C1_AE_1_SOC1	24	23	7.8	7.5	96	5.0	3.1	0.5	2.1	11.7	23.5
SOLcliVEG2TXT	SAN_C1_AE_1_SOC2	24	23	9.1	8.2	90	5.5	3.1	1.1	2.7	13.6	26.4
SOLcliVEG2TXT	SAN_C1_AE_1_SOC3	19	17	8.4	7.4	89	7.2	3.8	2.2	2.7	9.6	28.3
SOLcliVEG2TXT	SAN_C1_AY_1_SOC1	33	30	5.7	3.9	69	4.2	1.9	1.1	3.1	8.2	15.3
SOLcliVEG2TXT	SAN_C1_AY_1_SOC2	32	28	6.6	4.3	66	4.8	1.7	1.5	3.5	9.1	20.1
SOLcliVEG2TXT	SAN_C1_AY_1_SOC3	28	25	7.1	3.9	55	5.7	1.9	1.8	4.0	10.3	16.8
SOLcliVEG2TXT	SAN_T2_AE_1_SOC1	7	7	6.8	3.5	52	6.2	1.7	1.9	4.5	11.4	11.5
SOLcliVEG2TXT	SAN_T2_AE_1_SOC2	7	7	7.8	3.4	44	7.0	0.4	2.3	6.6	12.1	12.2
SOLcliVEG2TXT	SAN_T2_AY_1_SOC1	11	11	5.1	2.6	51	5.1	1.5	1.3	3.6	6.7	10.2
SOLcliVEG2TXT	SAN_T2_AY_1_SOC2	11	11	6.2	3.1	50	5.7	2.0	1.9	4.1	7.7	12.9
SOLcliVEG2TXT	SAN_T2_AY_1_SOC3	10	10	9.4	5.8	62	7.2	3.0	3.7	4.3	15.4	19.4
SOLcliVEG2TXT	SAN_T3_AY_1_SOC1	18	18	3.7	2.3	62	2.9	1.3	1.3	2.0	5.5	9.2
SOLcliVEG2TXT	SAN_T3_AY_1_SOC2	17	16	4.3	2.6	59	3.8	1.5	1.6	2.4	6.1	9.6
SOLcliVEG2TXT	SAN_T3_AY_1_SOC3	17	17	7.4	5.0	67	5.7	2.5	2.5	3.3	10.5	17.0
SOLcliVEG2TXT	San_T3_CG_1_SOC1	9	9	3.8	2.6	70	2.4	1.3	1.1	1.5	6.4	8.0
SOLcliVEG2TXT	San_T3_CG_1_SOC2	9	9	5.0	3.4	68	3.3	1.6	1.4	2.2	9.2	9.9
SOLcliVEG2TXT	San_T3_CG_1_SOC3	9	9	6.7	4.3	64	5.1	2.4	1.8	3.5	11.5	13.4
SOLcliVEG2TXT	SAN_T4_CG_1_SOC1	8	8	0.9	0.6	72	0.9	0.5	0.1	0.2	1.4	1.8
SOLcliVEG2TXT	SAN_T4_CG_1_SOC2	8	8	1.3	0.8	66	1.3	0.7	0.2	0.4	2.0	2.6
SOLcliVEG2TXT	SAN_T4_CG_1_SOC3	8	8	2.0	1.3	64	2.0	0.9	0.4	0.8	3.0	4.1

IPCCcase	LONGID	N0	N1	Avg	SD	CV	MED	MAD	Min	Q1	Q3	Max
SOLcliVEG2TXT	SAN_W1_AY_1_SOC1	17	15	4.4	2.8	64	3.4	1.6	1.4	2.1	6.4	10.1
SOLcliVEG2TXT	SAN_W1_AY_1_SOC2	17	15	5.6	3.5	63	3.9	1.6	1.5	2.7	9.3	12.1
SOLcliVEG2TXT	SAN_W1_AY_1_SOC3	13	12	6.1	3.3	55	4.7	1.2	1.7	3.7	9.8	12.1
SOLcliVEG2TXT	SAN_W2_AY_1_SOC1	34	31	1.3	0.5	38	1.3	0.4	0.3	0.9	1.7	2.2
SOLcliVEG2TXT	SAN_W2_AY_1_SOC2	34	31	1.8	0.6	34	1.8	0.5	0.4	1.3	2.3	2.9
SOLcliVEG2TXT	SAN_W2_AY_1_SOC3	31	29	2.8	0.9	31	2.9	0.7	0.7	2.0	3.5	4.4
SOLcliVEG2TXT	SAN_W2_BX_1_SOC1	16	15	0.6	0.5	73	0.5	0.2	0.1	0.3	1.0	1.8
SOLcliVEG2TXT	SAN_W2_BX_1_SOC2	15	15	1.1	0.9	79	0.7	0.4	0.1	0.5	1.8	3.1
SOLcliVEG2TXT	SAN_W2_BX_1_SOC3	15	15	2.0	1.4	68	1.5	0.8	0.2	1.1	2.9	4.9
SOLcliVEG2TXT	SAN_W2_BY_1_SOC1	178	171	1.0	0.4	42	0.9	0.3	0.4	0.7	1.2	2.1
SOLcliVEG2TXT	SAN_W2_BY_1_SOC2	176	172	1.5	0.6	38	1.3	0.3	0.7	1.0	1.8	3.1
SOLcliVEG2TXT	SAN_W2_BY_1_SOC3	171	167	2.5	0.8	33	2.2	0.5	1.4	1.8	2.9	4.7
SOLcliVEG2TXT	SAN_W2_CG_1_SOC1	54	52	1.1	0.4	37	1.0	0.3	0.4	0.8	1.3	2.1
SOLcliVEG2TXT	SAN_W2_CG_1_SOC2	54	53	1.6	0.6	36	1.5	0.4	0.7	1.2	2.0	3.0
SOLcliVEG2TXT	SAN_W2_CG_1_SOC3	51	49	2.5	0.7	28	2.4	0.4	1.5	1.9	2.8	4.2
SOLcliVEG2TXT	VOL_C1_AE_2_SOC1	9	9	13.2	4.9	37	13.9	3.1	4.3	9.9	17.8	18.9
SOLcliVEG2TXT	VOL_C1_AE_2_SOC2	9	9	18.1	7.7	43	17.3	6.5	5.1	12.8	24.3	30.6
SOLcliVEG2TXT	VOL_C1_AE_2_SOC3	6	6	18.6	8.7	47	20.5	4.3	6.4	10.6	23.4	31.8
SOLcliVEG2TXT	VOL_C1_AY_2_SOC1	10	9	12.8	4.9	39	11.3	4.4	4.7	9.7	15.8	21.5
SOLcliVEG2TXT	VOL_C1_AY_2_SOC2	10	9	18.5	6.5	35	19.0	4.0	6.1	14.5	24.1	26.9
SOLcliVEG2TXT	VOL_C1_AY_2_SOC3	9	9	24.0	8.0	33	25.8	4.5	7.3	19.0	30.0	34.1
SOLcliVEG2TXT	VOL_W1_AE_2_SOC1	8	7	12.5	6.5	52	14.7	4.3	3.0	4.4	19.0	19.1
SOLcliVEG2TXT	VOL_W1_AE_2_SOC2	8	7	16.9	8.7	51	20.4	4.9	4.3	6.2	24.2	25.3
SOLcliVEG2TXT	VOL_W1_AE_2_SOC3	8	7	24.9	12.8	51	28.8	6.4	6.7	10.5	31.3	43.3
SOLcliVEG2TXT	VOL_W1_AY_2_SOC1	6	6	15.0	1.8	12	15.6	0.9	11.7	13.4	16.4	16.6
SOLcliVEG2TXT	VOL_W1_AY_2_SOC2	6	6	21.2	4.6	22	21.1	3.1	13.6	17.9	25.8	26.4
SOLcliVEG2TXT	VOL_W1_AY_2_SOC3	6	6	33.3	15.3	46	29.8	3.5	15.3	25.1	41.8	61.5
SOLcliVEG2TXT	VOL_W1_CG_2_SOC1	7	7	12.2	3.4	28	13.8	2.8	8.4	8.5	14.6	16.6
SOLcliVEG2TXT	VOL_W1_CG_2_SOC2	7	7	18.2	6.1	34	20.2	4.5	11.2	11.3	23.5	24.7
SOLcliVEG2TXT	VOL_W1_CG_2_SOC3	6	6	29.1	11.9	41	29.8	9.9	14.1	16.7	39.4	45.8
SOLcliVEG2TXT	WET_T2_AE_2_SOC1	8	7	5.0	1.6	33	4.7	1.0	3.3	3.7	6.3	7.9
SOLcliVEG2TXT	WET_T2_AE_2_SOC2	8	7	6.5	1.9	30	5.9	1.0	4.4	4.9	8.3	9.8
SOLcliVEG2TXT	WET_T2_AE_2_SOC3	7	6	9.2	2.8	30	9.1	2.4	6.4	6.5	11.8	12.9
SOLcliVEG2TXT	WET_W2_BY_3_SOC1	15	15	6.6	4.6	70	4.2	1.9	2.3	3.1	10.0	17.1
SOLcliVEG2TXT	WET_W2_BY_3_SOC2	14	14	11.0	7.8	71	8.7	5.2	3.0	4.3	15.7	27.2
SOLcliVEG2TXT	WET_W2_BY_3_SOC3	14	14	18.4	15.2	82	15.0	9.5	4.0	5.7	27.7	57.6
SOLcliVEG2TXT	WET_W2_CG_3_SOC1	12	12	8.9	3.6	40	8.8	2.6	2.6	6.5	12.5	14.2
SOLcliVEG2TXT	WET_W2_CG_3_SOC2	12	12	13.7	5.3	38	13.6	4.4	3.9	9.3	18.5	20.9
SOLcliVEG2TXT	WET_W2_CG_3_SOC3	12	12	23.1	9.8	42	23.0	7.4	6.1	14.1	33.3	36.0



World Soil Information

ISRIC - World Soil Information is an independent foundation with a global mandate, funded by the Netherlands Government, and with a strategic association with Wageningen University and Research Centre.

Our aims:

- To inform and educate - through the World Soil Museum, public information, discussion and publication*
- As ICSU World Data Centre for Soils, to serve the scientific community as custodian of global soil information*
- To undertake applied research on land and water resources*