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Research Article

# Plant Constituents Affecting Food Selection by Sika Deer

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### **ABSTRACT**

We directly observed the feeding behaviors of Yaku sika deer (Cervus nippon yakushimae), the smallest subspecies of Japanese sika deer, by following 6 wild, habituated, and individually identifiable animals in a natural warm-temperate forest on the island of Yakushima, southern Japan, 2005–2006. Deer fed on various plant species and parts but predominantly on the fallen leaves, fruits, seeds, and flowers of woody plants (ca. 82% of food items) at 59 natural feeding plots. We analyzed 8 key plant constituents of eaten and uneaten items at the feeding plots, and examined the effects of each constituent on food selection by multivariate and univariate generalized linear mixed models. The multivariate analysis, which evaluated the effect of each plant constituent on food selection by controlling influences of the other constituents in the food items, showed that deer selected food items with higher contents of crude fat, crude protein, and total phenolics but with lower contents of lignin and condensed tannin from the available items at the feeding plots. Neither soluble nor structural carbohydrate, nor ash content affected selection of food items. It may be advantageous for these small ungulates with shorter gastrointestinal tracts to select foods that are relatively rich in fat because of the higher energy content of fat compared with carbohydrates. Furthermore, it appears that non-tannin phenolics may have beneficial functions in this species. The univariate analyses showed different effects of crude protein and structural carbohydrate on food selection compared to those derived from the multivariate analysis. We demonstrate that accounting for influences of other plant constituents by using multivariate analyses is important to ensure that any effects of individual plant constituents are not overlooked or overstated.

**KEY WORDS** behavioral observation, *Cervus nippon yakushimae*, crude fat, crude protein, feeding plot, lignin, multivariate analysis, total phenolics, warm temperate forest.

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Food selection is a fundamental component of ecological interactions between animals and their environment (Hanley 1997) and influences the habitat use and activity patterns of a range of species (e.g., Japanese macaque [Macaca fuscata], Agetsuma 1995, Agetsuma and Noma 1995; grizzly bear [Ursus arctos], Munro et al. 2006; platypus [Ornithorhynchus anatinus], McLachlan-Troup et al. 2010). In studies on food selection by herbivores, energy and protein are the 2 main forage components because both are essential for maintaining body condition, growth, and reproduction, and yet have been suggested to have the most limited availability for wild animals (Nakagawa 1989, Robbins 1993, Hanley 1997). By contrast, structural carbohydrates, lignin, and plant secondary metabolites have negative effects on food selection because they may reduce digestion rates (Alm et al. 2002, Hochman and Kotler 2006, Hanya et al. 2007, Ulappa et al. 2014). Consequently, some studies have defined food quality based on these key plant constituents without confirming the actual effects of these constituents on food selection by the subject animals (Robbins 1993, Berteaux et al. 1998, Johnstone et al. 2002, Moser et al. 2006, Simard et al. 2008).

Many studies on ungulates have examined the effects of these key constituents on the selection of food items from available options (Tixier et al. 1997, Forsyth et al. 2002, Dostaler et al. 2011, Zweifel-Schielly et al. 2012). The results, however, have not always been as expected (Dostaler et al. 2011). For example, researchers reported that ungulates selected food items with less soluble carbohydrates (Vourc'h et al. 2002, Ceacero et al. 2012) and protein (Berteaux et al. 1998, Vourc'h et al. 2002, Verheyden-Tixier et al. 2008, Ceacero et al. 2012, Zweifel-Schielly et al. 2012), and more structural carbohydrates (such as neutral detergent fiber and cellulose; Vourc'h et al. 2002, Verheyden-Tixier et al. 2008, Ceacero et al. 2012), lignin (Vourc'h et al. 2002, Verheyden-Tixier et al. 2008), and plant secondary metabolites (Tixier et al. 1997, Verheyden-Tixier et al. 2008, Zweifel-Schielly et al. 2012), though this can vary with some conditions such as season or individual. It has been argued that these inconsistencies are related to characteristics of the ungulate digestive system (Verheyden-Tixier et al. 2008) or the influence of varying seasons (Van der Wal et al. 2000, Zweifel-Schielly et al. 2012). It is also possible, however, that these inconsistencies result from methodological issues in food selection studies on ungulates in natural habitats and in captivity.

Food plants of ungulates in the wild have mainly been identified by analyzing the contents of rumens and feces, or by observing browsing marks left by ungulates on plants. However, these approaches all have weaknesses. It is generally difficult to identify plant parts to species in the rumen or feces, resulting in food items being combined into broad categories, such as grasses, forbs, and browse (Moser et al. 2006, Zweifel-Schielly et al. 2012), and the amounts of individual plant constituents may differ greatly among the species even within each of these categories. Fecal analyses are also confounded because digestibility can vary between food types (Verheyden-Tixier et al. 2008, Wam and Hjeljord 2010). Furthermore, it is sometimes uncertain whether the locations in which the ungulates were shot to obtain the

rumens are coincident with their foraging grounds and the environmental availability of food items eaten (Bee et al. 2011). Browsing marks are difficult to consistently quantify across various food types (Wam and Hjeljord 2010), and if ungulates frequently feed on forest litter, such as fallen leaves and fruits (Gayot et al. 2004, Soumya et al. 2010, Agetsuma et al. 2011, Tsuji et al. 2015), there are often no traces of consumption. Some of these difficulties can be resolved by conducting feeding experiments in captivity and semi-captivity. For example, cafeteria tests can control the key constituents of the available food items, sometimes using artificial pellet foods, and measure the amount of each food item that is eaten (Berteaux et al. 1998, Alm et al. 2002, Hochman and Kotler 2006, Dostaler et al. 2011). Even when animals in captivity have been presented with natural plants, however, the number of food items and number of combinations that are presented to them are often less (Deguchi et al. 2001, Dostaler et al. 2011, Huang et al. 2012) compared with availability at natural feeding situations.

Direct observation of the feeding behavior of wild animals in their natural habitats has the potential to avoid most of the methodological problems that are inherent in indirect dietary analyses and food selection experiments in captivity as discussed above, provided the plant species, plant parts, and even the condition of food plants that are eaten can be sufficiently identified (Agetsuma et al. 2011). Direct observation also provides information of potential foods that are available to specific animals when they select food items. However, the feeding behavior of wild ungulates is often difficult to observe and consequently, few such studies have been conducted (Hjeljord et al. 1990, Agetsuma et al. 2011).

The analytical methods used can also affect the evaluation of the relationship between plant constituents and food selection. Food items consist of a variety of constituents, all of which have the potential to affect food selection and in potentially interacting ways. Many studies, however, have evaluated the effects of individual constituents without considering the influences of other constituents (Vourc'h et al. 2002, Verheyden-Tixier et al. 2008, Zweifel-Schielly et al. 2012), which may limit inferences derived from such studies. Analytical methods that consider co-variation between plant constituents should improve our understanding of the actual effect of each constituent on food selection (e.g., multivariate modeling procedures; Tixier et al. 1997, Deguchi et al. 2001).

Factor analysis (FA) or principal component analysis (PCA; Forsyth et al. 2005, Dostaler et al. 2011) can be useful for characterizing groups of food items in relation to food selection but cannot be used to detect the effects of each constituent individually because the factors are expressed as mixtures of constituents, which makes evaluation of the relative importance of individual plant constituents difficult. Moreover, some constituents showing positive correlations with the first axis may have negative correlations with the second axis (Vangilder et al. 1982), which would make explanation of the effect of the constituents confusing. Geometric frameworks may be suitable methods for visualizing and conceptualizing the importance of plant constituents on food selection (Raubenheimer et al. 2015, Felton et al.

2016). This method is somewhat limited because it cannot assess >3 constituents simultaneously or control the influences of other constituents in the food items.

In this study, we focused on plant constituents that affect selection of food items by wild ungulates under natural feeding situations. To avoid the methodological issues of dietary and data analyses inherent in previous studies on food selection, we directly observed wild deer selecting food items from other available items in a natural forest and analyzed the effects of key plant constituents in these items on the food selection using a multivariate analysis. We predicted that crude fat, crude protein, and soluble carbohydrate would have positive effects, and structural carbohydrate, lignin, total phenolics, and condensed tannin would have negative effects on food selection by wild deer. In addition, we examined differences in the results of multivariate and univariate analyses to better understand the effect of analytical methods on studies of food selection.

#### STUDY AREA

The subject of this study was Yaku sika deer (Cervus nippon yakushimae), one of the smallest subspecies of Japanese sika deer (Whitehead 1993), which is endemic to the islands of Yakushima and nearby Kuchino-Erabujima, southern Japan. Mean body mass of adult (≥4 years old) females and males in the study area were 21 kg (range=18-25 kg, n=18) and 28 kg (range=24–37, n=15), respectively (N. Agetsuma, Hokkaido University, unpublished data). Density of deer in the study area was high (100–110 individual/km<sup>2</sup>; Koda et al. 2011), likely because of the absence of natural predators of Yaku sika deer on the island since the last Ice Age (Environment Agency 1984) and the high productivity of the evergreen broad-leaved forest. The deer typically formed small groups that included several individuals (Agetsuma et al. 2003), with groups of >10 individuals temporarily gathering on occasion. Mean annual home range size (expressed as a 90% fixed kernel) was 12 ha (range=7-17, n=4) for adult females and 36 ha (range=4-78, n=4) for adult males (Agetsuma et al. 2005). Hunting was prohibited in the study area, but feral domestic dogs occasionally killed deer. Other mediumsized mammals that inhabited the study area were Yakushima macaques (M. f. yakui) and raccoon dogs (Nyctereutes procyonoides), which were introduced to the island around 1990 (Tsujino and Agetsuma-Yanagihara 2006).

We established our study area in a lowland warm temperate evergreen broad-leaved forest on the western coast (ca. 1 km × 10 km, 10–250m above sea level) of the island of Yakushima (30°N, 130°E; 503 km²) in 2005 and 2006. Most parts of the study area were within a natural World Heritage site and Special Protection Area of Yakushima National Park, where settlements or cultivation were not allowed and logging was prohibited. The annual mean temperature was approximately 21°C, which corresponds with the transition between the subtropical and warm temperate zone (Tagawa 1994) and annual precipitation was approximately 2,600mm (Tagawa 1980). We defined the annual seasons in this study area as spring (Apr–Jun), summer (Jul–Sep), autumn (Oct–Dec), and winter (Jan–Mar). The

vegetation in the study area mainly consisted of approximately 45-year-old secondary forest and some primary forest, and was dominated by evergreen species of Fagaceae, Myrsinaceae, and Lauraceae. Subtropical plants such as banyan trees (*Ficus superba var. japonica*, *F. microcarpa*), charcoal-tree (*Trema orientalis*), and large spiny tree fern (*Cyathea spinulosa*) were also present. The plant species diversity of the forest was relatively high (Tagawa 1980), but forest floor vegetation was poorly developed in the study area and tended to be dominated by several fern species where present. The area also included small isolated plantations of Japanese cedar (*Cryptomeria japonica*) and small areas of grassland along roadsides, the seashore, and on mudslides (Agetsuma et al. 2011, Agetsuma and Agetsuma-Yanagihara 2018).

## **METHODS**

#### **Behavioral Observation**

We captured wild deer for individual identification from 2001 to 2005 using animal capture and handling protocols that had been reviewed and permitted by the Ministry of the Environment, Government of Japan (KanKyushu [number 031119001], Kikenryoho [number 10-0004]). We immobilized the deer with an intramuscular injection of xylazine and ketamine delivered by air dart gun. We marked the deer with radio-collars (ca. 130 g; model M2950; ATS, Isanti, MN, USA), the weights of which were <1.0% of their body mass, and then administered the antagonist tolazoline to the deer.

We started to observe the behavior of the deer >2 months after capture. We observed wild deer behavior intermittently between January 2005 and September 2006, with observation periods occurring in each season. We chose 3 adult females and 3 adult males as focal animals in this study (Table S1, available online in Supporting Information), which could be identified by their collars or natural marks. Although these individuals were living in the wild, they were habituated to researchers because wildlife researchers have conducted long-term behavioral observations of monkeys (e.g., Maruhashi 1981, Agetsuma 1995) and deer (e.g., Agetsuma et al. 2003, 2011) in the study area. Subject female Q had 1 female fawn and 2 or 3 daughters of 1–4 years old during the study period, whereas female Yon had 1 male in each of 2005 and 2006; these young were also habituated to the presence of researchers. Female San did not have any young (she gave birth in 2005, but the fawn died). The adult males were solitary but temporarily stayed with other males and females. The home ranges of 5 of the 6 focal animals were overlapping or adjacent to each other, with the home range of male Teto disjunct but still within the study area.

We planned to observe at least 3 individuals including both sexes for more than 40 hours in each season of each year. On each observation day, we followed focal animals mainly during daylight hours at 2–10m (Fig. 1). They foraged in areas with trees and rocks sometimes within complex topography, and they frequently changed body postures and directions, which made continuous, uninterrupted observation of detailed movements of deer mouths almost



Figure 1
One of the focal animals for behavioral observation of wild Yaku sika deer (Teto) in a warm temperate evergreen broad-leaved forest on Yakushima, southern Japan. He was feeding on living bark of Makino's mallow (*Hibiscus makinoi*) in summer 2006.

impossible. Therefore, we used a scan sampling method (Altmann 1974) that recorded their first behavior observed every 2 minutes for as long as possible (Agetsuma et al. 2011). We classified animal behaviors during scans as moving, feeding, resting, and other. When the deer were feeding, we recorded which plant parts were eaten: mature leaves, new leaves, buds, bark, flowers, fallen mature leaves, fallen new leaves, fallen bracts, fallen flowers, fallen fruits, fallen seeds, or rotten bark. We further categorized the condition of fallen leaves of woody plants into fresh green leaves, red- or yellowtinged leaves, or dry brown leaves. We identified food items eaten by the focal deer to species, or the highest taxonomic level in the case of fallen items.

# **Plant Sampling and Constituent Analyses**

We defined the plant species and parts that were eaten by the focal deer as food items. Deer were often recorded in multiple scans feeding on the same food item within an area of the forest floor with a radius of several meters before moving to another location. Therefore, we defined a feeding plot as an area with a radius of 5m within which we recorded  $\geq 3$  scans of feeding on the same food item, which implied feeding on that item for  $\geq 6$  minutes on average. We marked the locations of these feeding plots during, or shortly after behavioral observations (total 59 feeding plots; Table S1). In some cases, we observed that deer fed on 2 food items simultaneously (e.g., green leaves and fruits attached to the same fallen branch) in  $\geq 3$  scans, or 2 food items each in  $\geq 3$  scans within a single feeding plot at a time (plots 24, 27, and 38; Table S1). In these cases, we recorded the area as a feeding plot for each of the 2 food items. In 2 cases, focal deer used the same place for feeding on different food items on different observation days within a season, so we treated these as independent observations (plots 6 and 16).

We established a 5-m  $\times$  5-m quadrat in the center of each feeding plot. Within each quadrat, we measured the area of cover of the green parts of each plant species ( $\geq 0.09 \text{m}^2$  cover) from 0–1.5m above the ground (the approximate height range that the deer can reach). For feeding plots that included bark as a food item, we also measured the surface area of the bark  $\leq 1.5 \text{m}$  above ground. We summed the cover for all plant parts at each feeding plot, and

then calculated the cover for each plant part of each species as a percentage of the total. We classified any plant parts of each species that contributed  $\geq 10\%$  of the cover at each feeding plot as available items.

We took samples of each of the available items and the food items that were fed on by the focal deer within 30m from each feeding plot. In 24 cases, we could not collect sufficient samples of specific items for plant constituent analysis in the feeding plots in which they were observed, so we subsequently collected the food item or a close congener in the same observation periods from a nearby area (Table S1). For the analysis of fat content of fallen fruit of red bayberry (*Myrica rubra*; plot 41), we obtained samples during the same season of the following year.

We also sampled forest litter (any fallen plant parts) at each feeding plot where present. Among the sampled litters, we sorted the most abundant species and parts as available items at that feeding plot. In all cases, these were brown fallen leaves of woody species. We were unable to determine the most abundant species distinctly in the litter at feeding plot 54, so we used a mixture of the fallen leaves as a sample for that feeding plot.

We dried all samples by a heated-air dryer at 40°C to avoid decreasing the extraction efficiency of polyphenols (Constantinides and Fownes 1994, Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture 2000) within several hours of sampling, then triturated and stored samples at room temperature for plant constituent analyses. We analyzed 8 key constituents in each plant item: crude fat, crude protein, soluble carbohydrate, structural carbohydrate (hemicellulose and cellulose), lignin, total phenolics, insoluble condensed tannin, and ash contents (presented as % of dry matter). Because deer appeared consistently to spit out the shells of fallen seeds (acorns) of Japanese stone oak (Lithocarpus edulis) and Japanese willowleaf oak (*Quercus salicina*) when they fed on those items, we analyzed only the albumens of the seeds of these species. We measured the total nitrogen content by the combustion method using a carbon-nitrogen analyzer (Sumigraph NC-900; Sumika Chemical Analysis Service, Tokyo, Japan) and then multiplied the result by 6.25 to calculate the crude protein content (Van Soest et al. 1991, Robbins 1993). We determined the contents of soluble carbohydrate, structural carbohydrate, total phenolics, condensed tannin, and lignin without correction for the ash fraction as described by Osono and Takeda (2005) with some modifications. We weighted and shook dried sample powder (ca. 25 mg) with 12 ml 50% (volume basis) methanol at 70°C for 1 hour in a polypropylene test tube. After centrifugation at 12,000 G for 10 minutes, we analyzed the extract solution for soluble carbohydrate, total phenolics, and condensed tannin. We measured the soluble carbohydrate content as D-glucose equivalent using the phenol-sulfuric acid method (Dubois et al. 1956). We also measured the total phenolics content as gallic acid equivalent using the Folin-Ciocalteu method, and analyzed the condensed tannin content using the butanol-hydrochloric acid method and expressed in cyanidin chloride equivalents (Osono and Takeda 2005).

We rinsed the residue after the first 50% methanol treatment with 50% methanol and

centrifuged again. We repeated this rinsing process 3 times. Thereafter, we dried the residue and mixed with 0.75 ml of 72% (volume basis) sulfuric acid solution at room temperature for 2 hours. We diluted the mixture to 2.5% sulfuric acid with distilled water and autoclaved at 121°C for 1 hour. After cooling, we passed the mixture through a 10-mm-pore glass filter to separate the sulfuric acid solution from the residue. We measured the concentration of carbohydrate in the filtrate as D-glucose equivalent by the phenol–sulfuric acid method. We estimated the structural carbohydrate content using this carbohydrate concentration. We rinsed the filtered residue with distilled water and dried at 105°C for 4 hours. We calculated the lignin content from the weight of the dried residue. Although this fraction included other acid-insoluble (lignin-like) organic components such as secondary compounds and humic substances, this content represents lignin content (Osono and Takeda 2005).

We measured the ash content following the combustion of oven-dried subsamples at 600°C for 4 hours. We then dried the remaining portions of the samples at 100°C for 3 days to determine the water content and later calculated the content of each constituent per dry matter. A commercial laboratory (Nihon Hakko Shiryo K. K., Kawasaki, Japan) analyzed the crude fat content using the diethyl ether extraction method. Because the remaining amounts of samples of 2 items (mature leaf of sasanqua [Camellia sasanqua] in plot 36 in winter 2006 and litter of long-leaved laurel [Litsea acuminata] in plot 58 in summer 2006) were not sufficient for fat analysis, we assigned these samples the same fat contents as we obtained for those items for the same season in 2005.

We determined contents (% dry matter) of 8 key constituents in 59 of 62 food items and 157 of 171 other available items at 59 feeding plots (Table S1). We averaged the contents of each constituent in the same plant items in the same seasons of the same years and assigned the average to the items at the feeding plots for each season of the same year (Table S2, available online in Supporting Information).

# **Statistical Analyses**

We performed statistical analyses using the R statistical computing environment, version 3.2.0 (www.r-project.org, accessed 22 Apr 2015). We first checked for multicollinearity among the explanatory variables (contents of 8 key plant constituents) by calculating the variance inflation factors (VIF) and correlation coefficients (r) among the variables. This confirmed that the VIF of each variable was <3.0 and the absolute value of r for any pair of variables was <0.6, indicating that multicollinearity in this dataset was acceptable for further analysis (Sergent et al. 1995, Dormann et al. 2013). We then analyzed which constituents were positively and negatively associated with the selection of food items by deer from available items at the feeding plots using generalized linear mixed models (GLMMs), using the glmmadmb function in the glmmADMB package (glmmadmb.r-forge.r-project.org, accessed 24 May 2015).

Initially, we evaluated the association of each key constituent and food selection separately

using univariate analysis. We set food items (1) or other available items (0) at a given feeding plot as the response variable (n=233) and the content of 1 of the 8 key constituents as the explanatory variable. Because we recorded some items at multiple feeding plots in various seasons, we set feeding plot and season as random effect terms on the intercept in the GLMM (we did not account for sampling year). In addition, we also set focal deer identity (ID) as a random effect term to control for individual differences. We treated the response variable as a binomial distribution and used a logit link function in the GLMM. We repeated this procedure for each key constituent. To test the significance of each model against the null model, we performed a likelihood ratio test using the anova function in the glmmADMB package.

Next, we controlled for the influence of other key constituents (covariates) in each item (n=233) at the feeding plots on food selection by including all the key constituents as explanatory variables in the GLMM (multivariate analysis) and running models with all possible combinations of these variables (giving 256 models including a null model). Again, we treated the response variable as a binomial distribution, and set feeding plot, season, and deer ID as random effect terms in the GLMM. Then, we calculated Akaike's Information Criterion (AIC) values for each model, and identified a 95% confidence set of models by cumulatively summing the Akaike weights from highest to lowest until ≥0.95 (Burnham and Anderson 2002) using the model.sel and model.avg functions in the MuMIn package of R. We then calculated confidence intervals for each model-averaged coefficient of each variable using unconditional standard errors of the coefficient. We excluded variables for which the 85% confidence intervals of the coefficients included 0 and considered them uninformative variables (Arnold 2010). We then redeveloped the models with all possible combinations of variables excluding the uninformative variables. We calculated the Akaike weights to know the relative importance of each model and selected the models with  $\Delta$ AIC (AIC difference from the best model) <2.0. We then used a likelihood ratio test to determine the significance of the selected models against the null model.

## **RESULTS**

Mean observation time in each observation session (excluding intermittent time when deer behavior was not visible) was 7.5 hours (range=0.6–23.9 hrs); the mean total observation time was 91.6 hours (range=43.7–129.6 hrs) per season, and 61.0 hours (range=4.6–183.3 hrs) per focal animal. Although we could not identify all plant species eaten by focal animals during behavioral sampling, we identified 59 feeding plots in which focal deer fed on 62 food items (Table S1). Eighty-two percent (51 of 62 items) of these food items were fallen parts from woody species (new leaves, mature leaves, bracts, flowers, fruits, seeds, and rotten bark), 13% (8 items) were living parts from woody species (new leaves, mature leaves, flowers, and bark), and 5% (3 items) were living herbaceous plants (monocots, dicots, and ferns). These percentages are similar to the annual diet composition that has previously been reported for these deer, expressed as mean percentage of time spent feeding on each food item in 4 seasons

(fallen parts from woody species: 73%; intact parts from woody species: 13%; intact herbaceous plants: 5%: spring, n=2,657; summer, n=1,397; autumn, n=1,220; winter, n=1,131), although the percentage of fallen woody reproductive parts in this study (flowers, fruits, and seeds, 42%) was higher than in the annual diet (18%; Agetsuma et al. 2011). Thus, the identified feeding plots were considered representative for analyzing food selection by deer in the study area.

In total, we evaluated the contents of 8 key plant constituents in 62 food items selected by focal deer (40 plant species and plant parts across all observation periods) and 171 other available but not selected items (50 species and parts) at 59 feeding plots (Table S1). There was extensive overlap in the constituent contents of the food items and other available items (Fig. 2).

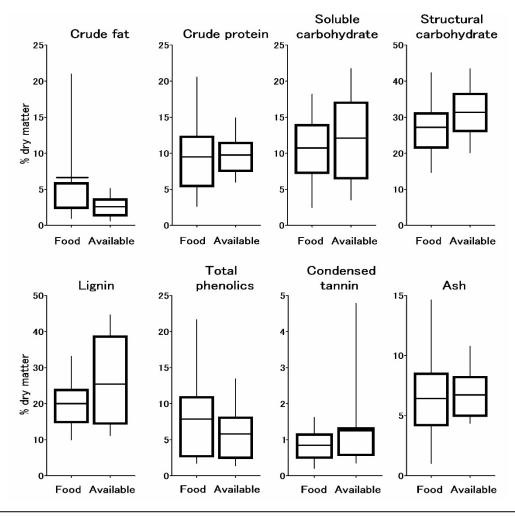


Figure 2 Box plot of the mean contents (% dry matter) of 8 key constituents in food items selected by Yaku sika deer (food, n=62) and other available (uneaten) items (available, n=171) at 59 feeding plots across 4 seasons in a warm temperate evergreen broad-leaved forest on Yakushima, southern Japan, 2005–2006. In each box plot, the horizontal lines indicate the mean values, the boxes represent the 25th and 75th percentiles, and the whiskers represent

Univariate GLMMs that included crude fat, structural carbohydrate, lignin, total phenolics, or condensed tannin as explanatory variables were significantly different from a null model (likelihood ratio test, P<0.01, Table 1). In these models, the crude fat and total phenolics coefficients were significantly positive, whereas the structural carbohydrate, lignin, and condensed tannin coefficients were significantly negative. By contrast, models that included crude protein, soluble carbohydrate, and ash were not statistically different from the null model.

**Table 1**Coefficients from univariate generalized linear mixed models (GLMM) examining which key plant constituents affected food selection at natural feeding plots by wild Yaku sika deer inhabiting a warm temperate evergreen broad-leaved forest on Yakushima, southern Japan, 2005–2006. Each constituent was included separately in each model.

Variable in model	$n^{\mathrm{a}}$	Coefficient	Likelihood ratio test (P)
Crude fat	233	0.278	< 0.001
Crude protein	233	-0.027	0.476
Soluble carbohydrate	233	-0.030	0.248
Structural carbohydrate	233	-0.061	0.001
Lignin	233	-0.045	0.001
Total phenolics	233	0.077	0.005
Condensed tannin	233	-0.580	0.001
Ash	233	-0.042	0.422

<sup>&</sup>lt;sup>a</sup>Total number of food (62) and other available items (171) analyzed by each GLMM.

Table 2
Coefficients from multivariate generalized linear mixed model (GLMM) examining which key plant constituents affected food selection at natural feeding plots by wild Yaku sika deer inhabiting a warm temperate evergreen broad-leaved forest on Yakushima, southern Japan, 2005–2006. We used 233 items (62 food items and 171 other available items) for the GLMM. We selected the model from a set of multivariate generalized linear mixed models using possible combinations of variables after excluding uninformative variables by referring to unconditional standard errors of coefficients of 8 variables in a 95% confidence set of models.

Variable in selected model	Coefficient	P	
Crude fat	0.603	< 0.001	
Crude protein	0.127	0.004	
Lignin	-0.052	0.016	
Total phenolics	0.194	0.001	
Condensed tannin	-0.726	0.036	

Next, we included all key constituents in the GLMM to control influences of other constituents in each available item. We identified soluble carbohydrate, structural carbohydrate, and ash as uninformative variables. Hence, we analyzed all 32 models that did

not contain any of the uninformative variables. Only 1model had  $\Delta$ AIC<2.0, which was significantly different from the null model (P<0.001), and its Akaike weight was 0.793 among the 32 models. The selected model contained crude fat, crude protein, and total phenolics as significant positive factors, and lignin and condensed tannin as significant negative factors in the food selection of deer (Table 2).

#### DISCUSSION

## **Effects of Key Plant Constituents on Food Selection**

As we predicted, crude fat and crude protein content of plants had positive effects on food selection by wild Yaku sika deer, whereas lignin and condensed tannin content had negative effects when the influences of other constituents were controlled for in multivariate analysis (Table 2). Conversely, soluble carbohydrate and structural carbohydrate content showed no apparent effects on food selection, and unexpectedly the total phenolics content had a positive effect.

Both crude fat and soluble carbohydrate contribute to the energy intake of animals. However, fat has more energy per unit dry weight than carbohydrates such as sugar and starch (National Research Council 1989, Leeson and Summers 2001), which may make it a particularly desirable nutrient for small-bodied ungulates with short gastrointestinal tracts such as the deer examined in this study (ca. 20–30 kg body weight). This demonstrates that although energy is generally recognized as important in food selection (Robbins 1993), we also need to pay attention to the sources of energy (i.e., fat, sugar, and protein). Relatively few studies have analyzed the fat content of ungulate food plants to date (Deguchi et al. 2001, Ceacero et al. 2012), perhaps because most previous works have been conducted in areas where forage plants are typically low in crude fat. However, ungulates living in warmer habitats consume more fruits and seeds (Gayot et al. 2004, Soumya et al. 2010, Agetsuma et al. 2011), which may have high fat content. A more comprehensive understanding of food selection by ungulates may require more information on the role of fat content in their food items.

Several non-tannin phenolics may be toxic to animals if ingested in large quantities, and ungulates generally trade off digestible matter against non-tannin phenolics when they select food items (Hanley 1997). Although condensed tannin content had a negative effect on food selection by deer, total phenolics content, which includes condensed tannin, had a significant positive effect (Table 2). Tixier et al. (1997) reported that roe deer (*Capreolus capreolus*) proactively ingest phenolics and speculated that they have developed physiological mechanisms to detoxify phenolics to reduce feeding competition with sympatric red deer (*Cervus elaphus*). Although the sika deer investigated in this study had no major interspecific competitor, they may experience high intraspecific feeding competition due to their high population density (Agetsuma et al. 2003, Koda et al. 2011). The body size of Yaku sika deer is considerably smaller than other subspecies of Japanese sika deer (e.g., Kyushu sika deer [*C.* 

n. nippon], Honshu sika deer [C. n. centralis], Ezo sika deer [C. n. yesoensis]; Whitehead 1993). Terada (2012) showed that the dwarfing of Yaku sika deer was genetically linked, potentially because of food limitation from high population density through predator release (Kay 1998, Lomolino 2005). Under these food limitation conditions, deer may have evolved the ability to detoxify phenolics to expand the range of foods they can consume. In addition, this ability may provide a selective advantage for ungulates that show boom-bust population cycles (Hebblewhite et al. 2006, Bradley and Neufeld 2012) during periods of food shortage at high population densities. Alternatively, ungulates may proactively feed on food items containing phenolics (Tixier et al. 1997) because of their various health-promoting effects, such as antioxidant properties (Hollman and Katan 1997, Riihimäki et al. 2008). Further study is required to better understand any potential benefits for ungulates of consuming non-tannin phenolics.

# The Importance of Considering Co-Variation between Plant Constituents

Because multicollinearity among the contents of the 8 key plant constituents was low (VIF<3.0 and |r|<0.6; Sergent et al. 1995, Dormann et al. 2013), our multivariate analysis could correct the effect of each plant constituent on food selection by deer by controlling the influences of other constituents (i.e., covariates) in each potential food item. We compared the results of univariate (Table 1) and multivariate analyses (Table 2) for evaluating the effects of each constituent on food selection by deer and found 2 main inconsistencies between the procedures. First, crude protein content had a significant positive coefficient in the multivariate analysis (Table 2), whereas the coefficient was not significant in the univariate analysis (Table 1). One explanation for this is that the effect of crude protein relates to food conditions of their habitats. It has previously been estimated that several deer species have protein requirements of 4–10% in food items for body maintenance (Berteaux et al. 1998). Because the mean crude protein content of food items in our study fell within this range (Fig. 2), it may not have had a major influence on food selection in our study. Rather, it may be that our study deer obtained sufficient protein to meet their daily requirements from a limited number of protein-rich food items and then sought other food items that were high in other favorable constituents, such as fat, but had more modest protein content. This may be relevant for other ungulate diet studies reporting that crude protein contents of frequently eaten food items were similar to or even significantly lower than those of less frequently eaten items under some conditions using univariate analyses (e.g., Vourc'h et al. 2002, Verheyden-Tixier et al. 2008, Zweifel-Schielly et al. 2012). It is possible that positive associations of protein content with food selection might have been detected if they had used multivariate analyses, as in our study.

The second difference we detected was in the effect of the structural carbohydrate content, which had a significant negative coefficient in the univariate analysis (Table 1) but had no detectable effect in the multivariate analysis (Table 2). It may be difficult to judge whether the

structural carbohydrate caused any negative effect under stronger influences of other constituents. Nonetheless, the effect of the structural carbohydrate was overestimated in the univariate analysis in this study. Applying univariate analyses for many types of plant constituents causes multiple comparison problems that may lead to the Type I errors. Thus, we suggest that statistical procedures, such as univariate analysis, which cannot control the influence of other plant constituents, require careful attention to minimize biases in studies of food selection.

# MANAGEMENT IMPLICATIONS

Our results suggest that some plant constituents that have generally been thought to have negative effects on food selection by ungulates may actually have only little association (structural carbohydrate) or even positive association (plant secondary metabolites) with food selection (Table 2). Therefore, for evaluating qualities of food items for subject species, we should confirm the species-specific negative or positive effects of each plant constituent. In addition, direct observations of the feeding behavior of wild animals under natural conditions can be important for understanding their food selection. This is especially true for ungulates that frequently forage on fallen plant parts where other methods may be biased in detecting these food items.

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# Table S1

Table S1 Plant species and parts, condition, and abundance of food items and other available items at natural feeding plots used by focal wild Yaku sika deer (Cervus nippon yakushimae) in a warm temperate evergreen broad-leaved forest on Yakushima, southern Japan, 2005–2006.

_		Food item					Available item excluding food item	•			-
Feeding		T GGG ICOM		Living part			/ transpio reom oxolading rood reom			Litter	
	Year Season	Species (part/condition, type	e. % coverage)	Species (part/condition, t	type, % coverage)					Species (part/condition)	
1 Q female	2005 winter		(living mature leaf, browse, 18.9)	Dryopteris sordidipes	(living mature leaf, fern, 27.0)	Litsea acuminata	(living mature leaf, browse, 21.6)	Symplocos lucida	(living mature leaf, browse, 13.5)	Lithocarpus edulis	(fallen brown leaf)
		Ť		Sarcandra glabra	(living mature leaf, dicot, 10.8)		. 9			•	
2 Roku male	2005 winter	Ficus superba	(green leaf dropped by monkey, litter)	Arachniodes aristata	(living mature leaf, fern, 71.4)	Litsea acuminata	(living mature leaf, browse, 11.4)	Camellia japonica	(living mature leaf, browse, 11.4)	Cryptmeria iaponica	(fallen brown leaf)
3 Q female	2005 winter	Trema orientalis	(green leaf dropped by monkey, litter)	Camellia sasangua	(living mature leaf, browse, 47.6)	Arachniodes aristata	(living mature leaf, fern, 28.6)	Litsea acuminata	(living mature leaf, browse, 14.3)	Lithocarpus edulis	(fallen brown leaf)
4 Q female	2005 winter	Rubus grayanus	(living new bud, browse, 25.9)	Dicranopteris linearis	(living mature leaf, fern, 34.5)	Pteris wallichiana	(living mature leaf, fern, 14.3)			Litsea acuminata	(fallen brown leaf)
5 Yon female	2005 winter	Rhus succedanea	(fallen red leaf, litter)	Camellia sasanqua	(living mature leaf, browse, 68.2)	Eurya japonica	(living mature leaf, browse, 18.2)			Litsea acuminata	(fallen brown leaf)
6*1 Q female	2005 spring	Machilus thunbergii	(fallen bud scale, litter)	Arachniodes aristata	(living mature leaf, fern, 66.7)	Camellia sasangua	(living mature leaf, browse, 33.3)			Litsea acuminata	(fallen brown leaf)
7 Q female	2005 spring	Anodendron affine	(living flower, reproductive part, 37.5)	Anodendron affine	(living mature leaf, browse, 37.5)	Arachniodes aristata	(living mature leaf, fern, 25.0)*2			Lithocarpus edulis	(fallen brown leaf)
8 Q female	2005 spring	Castanopsis sieboldii	(fallen dried green leaf, litter)	Rhododendron tashiroi	(living new leaf, browse, 45.7)	Litsea acuminata	(living new leaf, browse, 11.4)	Eurya japonica	(living mature leaf, browse, 11.4)	Lithocarpus edulis	(fallen brown leaf)
9 Q female	2005 spring	Schefflera octophylla	(fallen vellow leaf, litter)	Camellia japonica	(living mature leaf, browse, 39.5)	Eurya japonica	(living mature leaf, browse, 19.8)	Litsea acuminata	(living mature leaf, browse, 14.8)	Lithocarpus edulis	(fallen brown leaf)
			(,,,	Arachniodes aristata	(living mature leaf, fern, 12.3)		(		,g,,,		(,
10 Q female	2005 spring	Rhaphiolepis indica	(fallen red leaf, litter)	Symplocos lucida	(living mature leaf, browse, 50.0)	Myrsine seguinii	(living new leaf, browse, 25.0)	Eurya japonica	(living mature leaf, browse, 25.0)	Lithocarpus edulis	(fallen brown leaf)
11 Q female	2005 spring	Machilus thunbergii	(fallen immature fruit, litter)	Camellia sasangua	(living mature leaf, browse, 28.6)	Arachniodes aristata	(living mature leaf, fern, 28.6)	Ardisia sieboldii	(living mature leaf, browse, 14.3)	Machilus thunbergii	(fallen brown leaf)
		, and the second	, ,	Psychotria serpens	(living mature leaf, browse, 14.3)		. 9			, and a	
12 Teto male	2005 spring	Rhaphiolepis indica	(fallen red leaf, litter)	Psychotria serpens	(living mature leaf, browse, 36.4)	Arachniodes aristata	(living mature leaf, fern, 36.4)	Eurya japonica	(living mature leaf, browse, 18.2)	Machilus thunbergii	(fallen brown leaf)
13 Yon female	2005 spring	Machilus thunbergii	(fallen immature fruit, litter)	Arachniodes aristata	(living mature leaf, fern, 50.8)	Camellia japonica	(living mature leaf, browse, 34.9)			Machilus thunbergii	(fallen brown leaf)
14 Q female	2005 spring	Idesia polycarpa	(fallen flower, litter)	Arachniodes aristata	(living mature leaf, fern, 66.7)	Camellia sasangua	(living mature leaf, browse, 33,3)			Litsea acuminata	(fallen brown leaf)*2
15 Q female	2005 spring	Idesia polycarpa	(fallen flower, litter)		, , ,	,	, , , ,			Litsea acuminata	(fallen brown leaf)
16*1 Q female	2005 spring	Elaeocarpus sylvestris	(fallen red leaf, litter)	Arachniodes aristata	(living mature leaf, fern, 50.0)*2	Eurya japonica	(living mature leaf, browse, 50.0)*2			Litsea acuminata	(fallen brown leaf)
17 Teto male		Ficus erecta	(fallen fruit, litter)	Microlepia strigosa	(living mature leaf, fern, 83.3)	, -y-p	(			Litsea japonica	(fallen brown leaf)
18 Q female		Pteris wallichiana	(living mature leaf, fern. 47.6)	Alocasia odora	(living mature leaf, monocot, 47.6)					Litsea acuminata	(fallen brown leaf)
19 Juichi male		Elaeocarpus japonicus	(living bark, 57.1)	Eurya japonica	(living mature leaf, browse, 14.3)					Machilus thunbergii	(fallen brown leaf)
20 Juichi male		Ficus erecta	(living bark, 31.6)	Dryopteris sordidipes	(living mature leaf, fern, 31.6)	Arachniodes aristata	(living mature leaf, fern. 31.6)			Litsea acuminata	(fallen brown leaf)
21 Q female		Rhus succedanea	(fallen red leaf, litter)	Dicranopteris linearis	(living mature leaf, fern, 66.7)	Psychotria serpens	(living mature leaf, browse, 16.7)	Myrica rubra	(living mature leaf, browse, 16.7)	Lithocarpus edulis	(fallen brown leaf)
22 Q female		Zanthoxylum ailanthoides	(fallen immature fruit by monkey, litter)*4	Eurya japonica	(living mature leaf, browse, 33.3)	Nephrolepis cordifolia	(living mature leaf, fern, 16.7)	J		Litsea acuminata	(fallen brown leaf)
23 Teto male		Quercus salicina	(fallen seed, litter)	ya japoinou		prii diapia dal all'alla	1011, 10.7/			Quercus salicina	(fallen brown leaf)
24 San female	2005 autumn		(green leaf dropped by monkey, litter)	Camellia japonica	(living mature leaf, browse, 19.0)	Ardisia sieboldii	(living mature leaf, browse, 19.0)	Eurya japonica	(living mature leaf, browse, 19.0)	Neolitsea sericea	(fallen brown leaf)
ET Gan Tomaio	Lood datamin	Neolitsea sericea	(fallen fruit by monkey, litter)	Arachniodes aristata	(living mature leaf, fern, 19.0)	Ctenitis subglandulosa	(living mature leaf, fern, 14.3)	Lai ya japomoa	(inting material loar, provide, 10:0)	770071000	(ranon brown roar)
25 Q female	2005 autumn	Neolitsea sericea	(fallen flower, litter)	Arachniodes aristata	(living mature leaf, fern, 80.0)*2	Camellia sasangua	(living mature leaf, browse, 20.0)*2			Litsea acuminata	(fallen brown leaf)
26 Q female		Zanthoxylum ailanthoides		Camellia sasangua		Carrena sasangaa	(living mature lear, browse, 20.0)			Litsea acuminata	(fallen brown leaf)
27 Q female	2005 autumn		(fallen immature fruit by monkey, litter)*2		(living mature leaf, browse, 100.0)*2						
27 Q Temale	2005 autumn		(green leaf dropped by monkey, litter)	Arachniodes aristata	(living mature leaf, fern, 72.7)*2					Neolitsea sericea	(fallen brown leaf)
		Neolitsea sericea	(fallen fruit by monkey, litter)								
							(I I L C C OT L)				
28 Teto male	2006 winter	Rhus succedanea	(fallen seed, litter)	Psychotria serpens	(living mature leaf, browse, 50.0)	Arachniodes aristata	(living mature leaf, fern, 37.5)	Psychotria rubra	(living mature leaf, browse, 12.5)	Machilus thunbergii	(fallen brown leaf)
29 Teto male	2006 winter	Rhus succedanea	(fallen seed, litter)*2	Arachniodes aristata	(living mature leaf, fern, 69.6)		, , ,			Quercus salicina	(fallen brown leaf)
29 Teto male 30 Q female	2006 winter 2006 winter	Rhus succedanea Rhus succedanea	(fallen seed, litter)*2 (fallen seed, litter)	Arachniodes aristata Arachniodes aristata	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7)	Eurya japonica	(living mature leaf, browse, 28.6)	Myrsine seguinii	(living mature leaf, browse, 14.3)	Quercus salicina Lithocarpus edulis	(fallen brown leaf) (fallen brown leaf)
29 Teto male	2006 winter	Rhus succedanea	(fallen seed, litter)*2	Arachniodes aristata Arachniodes aristata Dryopteris sordidipes	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8)	Eurya japonica	, , ,	Myrsine seguinii		Quercus salicina	(fallen brown leaf)
29         Teto male           30         Q female           31         Q female	2006 winter 2006 winter 2006 winter	Rhus succedanea Rhus succedanea Camellia japonica	(fallen seed, litter)*2 (fallen seed, litter)	Arachniodes aristata Arachniodes aristata	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7)	Eurya japonica	(living mature leaf, browse, 28.6)	Myrsine seguinii	(living mature leaf, browse, 14.3)	Quercus salicina Lithocarpus edulis Lithocarpus edulis	(fallen brown leaf) (fallen brown leaf) (fallen brown leaf)
29         Teto male           30         Q female           31         Q female           32         Q female	2006 winter 2006 winter 2006 winter 2006 winter	Rhus succedanea Rhus succedanea	(fallen seed, litter)*2 (fallen seed, litter) (fallen flower, litter)*4 (fallen red leaf, litter)*3	Arachniodes aristata Arachniodes aristata Dryopteris sordidipes	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7)	Eurya japonica	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2)	Myrsine seguinii	(living mature leaf, browse, 14.3)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis	(fallen brown leaf) (fallen brown leaf) (fallen brown leaf) (fallen brown leaf)
29         Teto male           30         Q female           31         Q female           32         Q female           33         Yon female	2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter	Rhus succedanea Rhus succedanea Camellia japonica Elaeocarpus sylvestris Rhus succedanea	(fallen seed. litter)*2 (fallen seed. litter) (fallen flower, litter)*4 (fallen red leaf, litter)*3 (fallen seed, litter)	Arachniodes aristata Arachniodes aristata Dryopteris sordidipes	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8)	Eurya japonica	(living mature leaf, browse, 28.6)	Myrsine seguinii	(living mature leaf, browse, 14.3)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata	(fallen brown leaf) (fallen brown leaf) (fallen brown leaf) (fallen brown leaf) (fallen brown leaf)
29         Teto male           30         Q female           31         Q female           32         Q female           33         Yon female           34         Yon female	2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter	Rhus succedanea Rhus succedanea Camellia japonica  Elaeocarpus sylvestris Rhus succedanea Cinnamomum camphora	(fallen seed, litter)*2 (fallen seed, litter) (fallen flower, litter)*4  (fallen red leaf, litter)*3 (fallen seed, litter) (fallen bract, litter)	Arachniodes aristata Arachniodes aristata Dryopteris sordidipes Psychotria serpens	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7)	Eurya japonica Ternstroemia gymnanthera	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2)	Myrsine seguinii	(living mature leaf, browse, 14.3)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis	(fallen brown leaf)
29         Teto male           30         Q female           31         Q female           32         Q female           33         Yon female           34         Yon female           35         Q female	2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter	Rhus succedanea Rhus succedanea Camellia japonica Elaeocarpus sylvestris Rhus succedanea	(fallen seed. litter)*2 (fallen seed. litter) (fallen flower, litter)*4 (fallen red leaf, litter)*3 (fallen seed, litter)	Arachniodes aristata Arachniodes aristata Dryopteris sordidipes Psychotria serpens	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7)	Eurya japonica Ternstroemia gymnanthera	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2)	Myrsine seguinii	(living mature leaf, browse, 14.3)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata	(fallen brown leaf)
29         Teto male           30         Q female           31         Q female           32         Q female           33         Yon female           34         Yon female	2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter	Rhus succedanea Rhus succedanea Camellia japonica Elaeocarpus sylvestris Rhus succedanea Cinnamomum camphora Cinnamomum camphora Elaeocarpus sylvestris	(fallen seed, litter)*2 (fallen seed, litter) (fallen flower, litter)*4  (fallen red leaf, litter)*3 (fallen seed, litter) (fallen bract, litter)	Arachniodes aristata Arachniodes aristata Dryopteris sordidipes Psychotria serpens	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7)	Eurya japonica Ternstroemia gymnanthera	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2)	Myrsine seguinii	(living mature leaf, browse, 14.3)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamomum camphora	(fallen brown leaf)
29         Teto         male           30         Q         female           31         Q         female           32         Q         female           33         Yon         female           34         Yon         female           35         Q         female           36         Q         female           37         Q         female	2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter	Rhus succedanea Rhus succedanea Camellia japonica Elaeocarpus sylvestris Rhus succedanea Cinnamonum camphora Cinnamonum camphora Elaeocarpus sylvestris Rhaphiologis indica	(fallen seed, litter)*2 (fallen seed, litter) (fallen flower, litter)*4  (fallen red leaf, litter)*3 (fallen seed, litter) (fallen bract, litter) (fallen bract, litter) (fallen bract litter) (fallen red leaf, litter)*3	Arachniodes aristata Arachniodes aristata Dryopteris sordidipes Psychotria serpens Eurya japonica	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 65.7)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, monocot, 19.0)	Myrsine seguinii	(living mature leaf, browse, 14.3)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Cinnamonum camphora Cinnamonum camphora Lithocarpus edulis Liteea acuminata	(fallen brown leaf)
29         Teto male           30         Q female           31         Q female           32         Q female           33         Yon female           34         Yon female           35         Q female           36         Q female	2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter	Rhus succedanea Rhus succedanea Camellia japonica  Elaeocarpus sylvestris Rhus succedanea Cinnamonum camphora Cinnamonum camphora Elaeocarpus sylvestris Rhapiholepis indica Psychotria rubra	(fallen seed. litter)*2 (fallen seed. litter) (fallen flower, litter)*4 (fallen flower, litter)*4 (fallen seed, litter) (fallen seed, litter) (fallen bract, litter) (fallen bract, litter) (fallen bract, litter) (fallen red leaf, litter)*3 (fallen red leaf, litter) (fallen red leaf, litter)	Arachniodes aristata Arachniodes aristata Dryopteris sordidipes Psychotria serpens Eurya japonica	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1) (living mature leaf, fern, 66.7)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum Camellia sasanqua	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, monocot, 19.0) (living mature leaf, browse, 33.3)	Myrsine seguinii	(living mature leaf, browse, 14.3)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamonum camphora Cinnamonum camphora Lithocarpus edulis	(fallen brown leaf)
29         Teto         male           30         Q         female           31         Q         female           32         Q         female           33         Yon         female           34         Yon         female           35         Q         female           36         Q         female           37         Q         female           38         Q         female	2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter	Rhus succedanea Rhus succedanea Camellia japonica Elaeocarpus sylvestris Rhus succedanea Cinnamomum camphora Cinnamomum camphora Cinnamomum camphora Elaeocarpus sylvestris Rhaphiolepis indica Psychotria rubra Ul	(fallen seed, litter)*2 (fallen seed, litter) (fallen flower, litter)*4  (fallen red leaf, litter)*3 (fallen seed, litter) (fallen bract, litter) (fallen bract, litter) (fallen bract, litter) (fallen red leaf, litter)*3 (fallen red leaf, litter) (living mature leaf, browse, 54,3) (rotten bark, litter)	Arachniodes aristata Arachniodes aristata Dryopteris sordidipes Psychotria serpens  Eurya japonica  Arachniodes aristata Arachniodes aristata Eurya japonica	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 85.7) (living mature leaf, fern, 85.7) (living mature leaf, browse, 13.0)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, monocot, 19.0) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3)	Myrsine seguinii Distylium racemosum	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamomum camphora Cinnamomum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis	(fallen brown leaf)
29   Teto male   30 Q   Female   31 Q   Female   32 Q   Female   33 Yon   Female   34 Yon   Female   36 Q   Female   37 Q   Female   38 Q   Female   39   Yon   Female   39   Yon   Female   39   Yon   Female   39   Yon   Female   30 Q   Female   39   Yon   Female   30 Q   Female   39   Yon   Female   31   Yon   Female   31   Yon   Female   31   Yon   Female   31   Yon   Female   32   Yon   Female   33   Yon   Female   34   Yon   Female   35   Yon   Female   35   Yon   Female   37   Yon   Female   37   Yon   Female   37   Yon   Temale   37   Yon   Temale   37   Yon   Temale   38   Yon   Temale   38	2006 winter 2006 winter	Rhus succedanea Rhus succedanea Camellia japonica  Elaeocarpus sylvestris Rhus succedanea Cinnamonum camphora Cinnamonum camphora Elaeocarpus sylvestris Rhaphiolepis indica Psychotria rubra Ul Rhus succedanea	(fallen seed. litter)*2 (fallen seed. litter) (fallen flower, litter)*4 (fallen flower, litter)*4 (fallen seed. litter) (fallen seed. litter) (fallen bract, litter) (fallen bract, litter) (fallen red leaf, litter) (fallen red leaf, litter) (living mature leaf, browse, 54.3) (rotten bark, litter) (fallen flower, litter)	Arachniodes aristata Arachniodes aristata Dryopteris sordidipes Psychotria serpens Eurya japonica  Arachniodes aristata Arachniodes aristata Eurya japonica  Ardisia sieboldii	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1) (living mature leaf, browse, 57.1) (living mature leaf, fern, 66.7) (living mature leaf, fern, 85.7) (living mature leaf, fern, 85.7) (living mature leaf, browse, 13.0) (living mature leaf, browse, 50.0)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum Camellia sasanqua	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, monocot, 19.0) (living mature leaf, browse, 33.3)	Myrsine seguinii	(living mature leaf, browse, 14.3)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamonum camphora Cinnamonum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata	(fallen brown leaf)
29         Teto male           30         Q female           31         Q female           32         Q female           33         Yon female           34         Yon female           35         Q female           36         Q female           37         Q female           38         Q female           39         Yon female           40         Yon female	2006 winter 2006 spring 2006 spring	Rhus succedanea Rhus succedanea Camellia japonica Elaeocarpus sylvestris Rhus succedanea Cinnamonum camphora Cinnamonum camphora Elaeocarpus sylvestris Rhaphiolepis indica Psychotria rubra Ul Rhus succedanea Rhus succedanea Rhus succedanea	(fallen seed. litter)*2 (fallen seed. litter) (fallen seed. litter) (fallen flower, litter)*4 (fallen red leaf, litter)*5 (fallen bract, litter) (fallen bract, litter) (fallen red leaf, litter) (fallen red leaf, litter) (fallen red leaf, litter) (fallen flower, litter)	Arachniodes aristata Arachniodes aristata Arachniodes aristata Dryopteris sordicipes Psychotria serpens  Eurya japonica  Arachniodes aristata Arachniodes aristata Eurya japonica  Ardisia sieboldii Distylium racemosum	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7)  (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 85.7) (living mature leaf, browse, 13.0)  (living mature leaf, browse, 50.0) (living mature leaf, browse, 87.5)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, monocot, 19.0) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0)	Myrsine seguinii Distylium racemosum	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamonum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Lithocarpus edulis	(fallen brown leaf)
29 Teto male   30 Q Female   31 Q Female   32 Q Female   33 Yon Female   34 Yon Female   36 Q Female   36 Q Female   37 Q Female   38 Q Female   39 Yon Female   39 Yon Female   40 Yon Female   40 Q Female   41 Q Female   40	2006 winter 2006 spring 2006 spring 2006 spring	Rhus succedanea Rhus succedanea Camellia japonica  Elaeocarpus sylvestris Rhus succedanea Climamonum camphora Cimamonum camphora Elaeocarpus sylvestris Rhaphiolegis indica Psychotria rubra ul Rhus succedanea Rhus succedanea Rhus succedanea Myrica rubra	(fallen seed, litter)*2 (fallen seed, litter) (fallen seed, litter) (fallen red leaf, litter)*4 (fallen red leaf, litter)* (fallen bract, litter) (fallen bract, litter) (fallen red leaf, litter) (fallen red leaf, litter) (living mature leaf, browse, 54.3) (rotten bark, litter) (fallen flower, litter) (fallen flower, litter) (fallen flower, litter) (fallen flower, litter)	Arachniodes aristata Arachniodes aristata Dryopteris sordidipes Psychotria serpens Eurya japonica  Arachniodes aristata Arachniodes aristata Eurya japonica  Ardisia sieboldii	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1)  (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 68.7) (living mature leaf, browse, 13.0) (living mature leaf, browse, 50.0) (living mature leaf, browse, 57.5) (living mature leaf, browse, 58.1)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua Vernicia cordata	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, browse, 22.2) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0) (living mature leaf, browse, 28.7)	Myrsine seguinii Distylium racemosum  Camellia sasanqua	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7) (living mature leaf, browse, 16.7) (living new leaf, browse, 25.0)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamonum camphora Cinnamonum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Ardisia sieboldii Myrica rubra	(fallen brown leaf)
29         Teto male           30         Q female           31         Q female           32         Q female           33         Yon female           34         Yon female           35         Q female           36         Q female           37         Q female           38         Q female           39         Yon female           40         Yon female	2006 winter 2006 spring 2006 spring	Rhus succedanea Rhus succedanea Camellia japonica Elaeocarpus sylvestris Rhus succedanea Cinnamonum camphora Cinnamonum camphora Elaeocarpus sylvestris Rhaphiolepis indica Psychotria rubra Ul Rhus succedanea Rhus succedanea Rhus succedanea	(fallen seed. litter)*2 (fallen seed. litter) (fallen seed. litter) (fallen flower, litter)*4 (fallen red leaf, litter)*5 (fallen bract, litter) (fallen bract, litter) (fallen red leaf, litter) (fallen red leaf, litter) (fallen red leaf, litter) (fallen flower, litter)	Arachniodes aristata Arachniodes aristata Arachniodes aristata Dryopteris sordidipes Psychotria serpens  Eurya japonica  Arachniodes aristata Arachniodes aristata Eurya japonica  Ardisia sieboldii Distylium racemosum Eurya emarginata Eurya japonica	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 66.7) (living mature leaf, fern, 65.7) (living mature leaf, fern, 65.7) (living mature leaf, browse, 13.0) (living mature leaf, browse, 59.0) (living mature leaf, browse, 58.1) (living mature leaf, browse, 58.1) (living mature leaf, browse, 25.0)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, monocot, 19.0) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0)	Myrsine seguinii Distylium racemosum	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamonum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Lithocarpus edulis	(fallen brown leaf)
29         Teto         male           30         Q         female           31         Q         female           32         Q         female           33         Yon         female           34         Yon         female           35         Q         female           36         Q         female           37         Q         female           38         Q         female           39         Yon         female           40         Yon         female           41         Q         female           42         Q         female	2006 winter 2006 spring 2006 spring 2006 spring 2006 spring	Rhus succedanea Rhus succedanea Camellia japonica Elaeocarpus sylvestris Rhus succedanea Cinnamonum camphora Cinnamonum camphora Cinnamonum camphora Elaeocarpus sylvestris Rhaphiolegis indica Psychotria rubra UI Rhus succedanea Rhus succedanea Myrica rubra Castanopsis sieboldii	(fallen seed. litter)*2 (fallen seed. litter) (fallen seed. litter) (fallen flower, litter)*4 (fallen seed. litter) (fallen seed. litter) (fallen bract. litter) (fallen bract. litter) (fallen bract. litter) (fallen red leaf, litter)*3 (fallen red leaf, litter) (fallen flower, litter) (fallen fruit. litter)*4 (fallen fruit. litter)*4	Arachniodes aristata Arachniodes aristata Arachniodes aristata Dryopteris sordicipes Psychotria serpens Eurya japonica  Arachniodes aristata Arachniodes aristata Eurya japonica  Ardisia sieboldii Distylium racemosum Eurya japonica Cleyera japonica Cleyera japonica	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7)  (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 65.7) (living mature leaf, browse, 13.0) (living mature leaf, browse, 50.0) (living mature leaf, browse, 58.1) (living mature leaf, browse, 16.7)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua Vernicia cordata Eurya japonica	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, monocot, 19.0) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0) (living mature leaf, browse, 38.7) (living mature leaf, browse, 25.0)	Myrsine seguinii Distylium racemosum  Camellia sasanqua  Cleyera japonica	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)  (living new leaf, browse, 25.0)  (living new leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamonum camphora Cinnamonum camphora Lithocarpus edulis Littea acuminata Lithocarpus edulis Littea acuminata Ardisia sieboldii Myrica rubra Quercus salicina	(fallen brown leaf)
29   Teto male   30   Q   Female   31   Q   Female   32   Q   Female   33   Yon   Female   34   Yon   Female   35   Q   Female   36   Q   Female   37   Q   Female   38   Q   Female   40   Yon   Female   40   Yon   Female   41   Q   Female   42   Q   Female   43   Teto male   43   Teto male   43   Teto male   44   Teto male   45   Teto male   46   Temale   47   Teto male   48   Teto male   48	2006 winter 2006 spring 2006 spring 2006 spring 2006 spring 2006 spring	Rhus succedanea Rhus succedanea Camellia japonica  Elaeocarpus sylvestris Rhus succedanea Cinnamonum camphora Cinnamonum camphora Elaeocarpus sylvestris Rhaphiolepis indica Psychotria rubra UI Rhus succedanea Rhus succedanea Rhus succedanea Castanopsis sieboldii Boehmeria holosericea	(fallen seed. litter)*2 (fallen seed. litter) (fallen seed. litter) (fallen seed. litter) (fallen seed. litter)*4 (fallen seed. litter) (fallen seed. litter) (fallen bract, litter) (fallen bract, litter) (fallen bract, litter) (fallen red leaf, litter)*3 (fallen red leaf, litter) (living mature leaf, browse, 54,3) (rotten bark, litter) (fallen flower, litter)	Arachniodes aristata Arachniodes aristata Dryopteris sordicipes Psychotria serpens  Eurya japonica  Arachniodes aristata Arachniodes aristata Eurya japonica  Ardisia sieboldii Distylium racemosum Eurya emarginata Eurya japonica Oleyera japonica Stephania japonica	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1)  (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 85.7) (living mature leaf, fern, 85.7) (living mature leaf, browse, 13.0)  (living mature leaf, browse, 50.0) (living mature leaf, browse, 58.1) (living mature leaf, browse, 58.1) (living mature leaf, browse, 25.0) (living mature leaf, browse, 56.7) (living new leaf, browse, 16.7) (living mature leaf, browse, 16.7)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum Camellia sasanqua Ardisia sieboldii Camellia sasanqua Vernicia cordata Eurya japonica Arachniodes aristata	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, browse, 22.2) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0)	Myrsine seguinii Distylium racemosum  Camellia sasanqua  Cleyera japonica	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7) (living mature leaf, browse, 16.7) (living new leaf, browse, 25.0)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litea acuminata Cinnamonum camphora Cinnamonum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Lithocarpus edulis	(fallen brown leaf)
29   Teto male   30	2006 winter 2006 spring 2006 spring 2006 spring 2006 spring 2006 spring 2006 spring 2006 spring	Rhus succedanea Rhus succedanea Camellia japonica Elaeocarpus sylvestris Rhus succedanea Cinnamonum camphora Cinnamonum camphora Elaeocarpus sylvestris Rhaphiolepis indica Psychotria rubra Ul Rhus succedanea Rhus succedanea Myrica rubra Castanopsis sieboldii Boehmeria holosericea Elaeocarpus sylvestris	(fallen seed. litter)*2 (fallen seed. litter) (fallen seed. litter) (fallen seed. litter) (fallen seed. litter) (fallen bract. litter) (fallen bract. litter) (fallen bract. litter) (fallen red leaf. litter) (fallen red leaf. litter) (fallen red leaf. litter) (fallen flower, litter) (fallen flower, litter) (fallen flower, litter) (fallen fruit. litter)* (fallen fruit. litter)* (fallen fruit litter)	Arachniodes aristata Arachniodes aristata Arachniodes aristata Dryopteris sordicipes Psychotria serpens  Eurva japonica  Arachniodes aristata Arachniodes aristata Eurya japonica Ardisia sieboldii Distylium racemosum Eurya emarginata Eurya japonica Clevera japonica Stephania japonica Microlepia strigosa	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7)  (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 65.7) (living mature leaf, fern, 85.7) (living mature leaf, browse, 13.0) (living mature leaf, browse, 59.1) (living mature leaf, browse, 87.5) (living mature leaf, browse, 16.7) (living mature leaf, browse, 16.7) (living mature leaf, browse, 17.9) (living mature leaf, browse, 17.9) (living mature leaf, fern, 47.6)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua Vernicia cordata Eurya japonica	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, monocot, 19.0) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0) (living mature leaf, browse, 38.7) (living mature leaf, browse, 25.0)	Myrsine seguinii Distylium racemosum  Camellia sasanqua  Cleyera japonica	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)  (living new leaf, browse, 25.0)  (living new leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamonum camphora Cinnamonum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Ardisia sisboldii Myrica rubra Quercus salicina NA Litsea japonica	(fallen brown leaf)
29   Teto male   30   Q   Female   31   Q   Female   32   Q   Female   33   Yon   Female   34   Yon   Female   36   Q   Female   36   Q   Female   37   Q   Female   38   Q   Female   39   Yon   Female   40   Yon   Female   41   Q   Female   42   Q   Female   43   Teto male   44   Teto male   44   Teto male   45   Teto male   51   Teto male	2006 winter 2006 spring	Rhus succedanea Rhus succedanea Camellia japonica  Elaeocarpus sylvestris Rhus succedanea Cinnamonum camphora Cinnamonum camphora Elaeocarpus sylvestris Rhanhiolepis indica Psychotria rubra U Rhus succedanea Rhus succedanea Rhus succedanea Rhus succedanea Rhus succedanea Elaeocarpus sieboldii Boehmeria holosericea Elaeocarpus sylvestris Melia azedarach	(fallen seed. litter)**  (fallen seed. litter)*  (fallen seed. litter)  (fallen seed. litter)  (fallen seed. litter)*  (fallen seed. litter)  (fallen seed. litter)  (fallen seed. litter)  (fallen bract, litter)  (fallen bract, litter)  (fallen red leaf, litter)*  (fallen red leaf, litter)  (living mature leaf, browse, 54.3)  (rotten bark, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen pellow leaf, litter)	Arachniodes aristata Arachniodes aristata Arachniodes aristata Dryopteris sordicipes Psychotria serpens Eurya japonica  Arachniodes aristata Arachniodes aristata Eurya japonica Ardisia sieboldii Distylium racemosum Eurya emarginata Eurya japonica Clevera japonica Clevera japonica Stephania japonica Microlepia strigosa Arrachniodes aristata	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 65.7) (living mature leaf, fern, 65.7) (living mature leaf, browse, 13.0) (living mature leaf, browse, 50.0) (living mature leaf, browse, 58.1) (living mature leaf, browse, 58.1) (living mature leaf, browse, 16.7) (living mature leaf, browse, 17.9) (living mature leaf, browse, 77.9) (living mature leaf, browse, 77.9) (living mature leaf, forn, 47.6) (living mature leaf, prowse, 16.7) (living mature leaf, prowse, 17.9) (living mature leaf, prowse, 18.7)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua Vernicia cordata Eurya japonica Arachniodes aristata Arachniodes aristata	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, browse, 22.2) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0) (living mature leaf, fern, 10.4) (living mature leaf, fern, 47.6)	Myrsine seguinii Distylium racemosum  Camellia sasanqua  Cleyera japonica	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)  (living new leaf, browse, 25.0)  (living new leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamonum camphora Cinnamonum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Ardisia sieboldii Myrica rubra Quercus salicina NA Litsea japonica Litsea japonica Litsea japonica Litsea japonica	(fallen brown leaf)
29   Teto male   30	2006 winter 2006 spring	Rhus succedanea Rhus succedanea Camellia japonica  Elaeocarpus sylvestris Rhus succedanea Cinnamonum camphora Cinnamonum camphora Elaeocarpus sylvestris Rhapiholepis indica Psychotria rubra UI Rhus succedanea Rhus succedanea Rhus succedanea Myrica rubra Castanopsis sieboldii Boehmeria holosericea Elaeocarpus sylvestris Melia azedarach Eurya emarginata	(fallen seed. litter)*2 (fallen seed. litter) (fallen seed. litter) (fallen seed. litter) (fallen seed. litter) (fallen bract. litter) (fallen bract. litter) (fallen bract. litter) (fallen red leaf. litter) (fallen red leaf. litter) (fallen red leaf. litter) (fallen flower, litter) (fallen flower, litter) (fallen flower, litter) (fallen fruit. litter)* (fallen fruit. litter)* (fallen fruit litter)	Arachniodes aristata Arachniodes aristata Arachniodes aristata Dryopteris sordicipes Psychotria serpens  Eurva japonica  Arachniodes aristata Arachniodes aristata Eurya japonica Ardisia sieboldii Distylium racemosum Eurya emarginata Eurya japonica Clevera japonica Stephania japonica Microlepia strigosa	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7)  (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 65.7) (living mature leaf, fern, 85.7) (living mature leaf, browse, 13.0) (living mature leaf, browse, 59.1) (living mature leaf, browse, 87.5) (living mature leaf, browse, 16.7) (living mature leaf, browse, 16.7) (living mature leaf, browse, 17.9) (living mature leaf, browse, 17.9) (living mature leaf, fern, 47.6)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum Camellia sasanqua Ardisia sieboldii Camellia sasanqua Vernicia cordata Eurya japonica Arachniodes aristata	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, browse, 22.2) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0)	Myrsine seguinii Distylium racemosum  Camellia sasanqua  Cleyera japonica	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)  (living new leaf, browse, 25.0)  (living new leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamonum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Ardisia sieboldii Myrica rubra Quercus salicina NA Litsea japonica Litsea japonica NA	(fallen brown leaf)
29 Teto male   30 Q Female   31 Q Female   32 Q Female   33 Yon Female   34 Yon Female   36 Q Female   36 Q Female   37 Q Female   38 Q Female   39 Yon Female   40 Yon Female   41 Q Female   42 Q Female   42 Q Female   43 Teto male   44 Teto male   46 Teto male   46 Teto male   47 Teto male   47 Teto male   47 Teto male   48 Teto male   48 Teto male   48 Teto male   48 Teto male   49 Teto male   49 Teto male   40 Teto ma	2006 winter 2006 syning 2006 spring	Rhus succedanea Rhus succedanea Camellia japonica  Elaeocarpus sylvestris Rhus succedanea Climamonum camphora Cimamonum camphora Cimamonum camphora Elaeocarpus sylvestris Rhaphiolegis indica Psychotria rubra Ul Rhus succedanea Rhus succedanea Rhus succedanea Rhus succedanea Rhus succedanea Castanopsis sieboldii Goehmeria holosericea Elaeocarpus sylvestris Melia azedarach Eurya emarginata Melia azedarach	(fallen seed. litter)*2 (fallen seed. litter) (fallen seed. litter) (fallen seed. litter) (fallen seed. litter) (fallen bract. litter) (fallen red leaf, litter) (fallen red leaf, litter) (fallen flower, litter) (fallen fruit. litter)*4 (fallen fred green new leaf, litter) (fallen red leaf, litter) (fallen red leaf, litter) (fallen small new leaf, diot., +) (fallen yellow leaf, litter) (fallen yellow leaf, litter) (fallen yellow leaf, litter)	Arachniodes aristata Arachniodes aristata Arachniodes aristata Dryopteris sordicipes Psychotria serpens  Eurva japonica  Arachniodes aristata Arachniodes aristata Eurya japonica Distylium racemosum Eurya emarginata Eurya japonica Cleyera japonica Stephania japonica Microlepia strigosa Arachniodes aristata Stephania japonica Microlepia strigosa Arachniodes aristata Stephania japonica	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 68.7) (living mature leaf, fern, 68.7) (living mature leaf, browse, 13.0) (living mature leaf, browse, 87.5) (living mature leaf, browse, 58.1) (living mature leaf, prowse, 58.1) (living mature leaf, prowse, 16.7) (living mature leaf, frowse, 77.9) (living mature leaf, frowse, 77.9) (living mature leaf, frowse, 16.7) (living mature leaf, frowse, 49.0) (living mature leaf, fern, 47.6) (living mature leaf, fern, 47.8) (living mature leaf, fern, 48.2)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua Vernicia cordata Eurya japonica Arachniodes aristata Arachniodes aristata Eurya emarginata	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, browse, 22.2) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, fern, 10.4) (living mature leaf, fern, 47.6) (living mature leaf, fern, 47.6)	Myrsine seguinii Distylium racemosum  Camellia sasanqua  Cleyera japonica	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)  (living new leaf, browse, 25.0)  (living new leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamomum camphora Cinnamomum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Ardisia sieboldii Myrica rubra Quercus salicina NA Litsea japonica Litsea japonica NA Dicranopteris linearis	(fallen brown leaf)
29   Teto male   30   Q   Female   31   Q   Female   32   Q   Female   33   Yon   Female   34   Yon   Female   35   Q   Female   36   Q   Female   37   Q   Female   40   Yon   Female   41   Q   Female   42   Q   Female   43   Teto male   44   Teto male   45   Teto male   47   Teto male   48   Yon   Female   48   Yon   Female   49   Yon   Female   47   Teto male   47   Teto male   48   Yon   Female   48   Yon   Female   47   Teto male   47   Teto male   48   Yon   Female   48   Yon   Female   48   Yon   Female   47   Teto male   48   Yon   Female   48   Yon   Female   47   Teto male   48   Yon   Female   48   Yon   Yon	2006 winter 2006 spring	Rhus succedanea Rhus succedanea Camellia japonica  Elaeocarpus sylvestris Rhus succedanea Cinnamomum camphora Cinnamomum camphora Elaeocarpus sylvestris Rhaphiolepis indica Psychotri rubra UI Rhus succedanea Rhus succedanea Rhus succedanea Rhus succedanea Elaeocarpus sylvestris Boehmeria holosericea Elaeocarpus sylvestris Melia azedarach Eurya emarginata Melia azedarach Rhaphiolepis indica	(fallen seed. litter)**  (fallen seed. litter)  (fallen bract, litter)  (fallen bract, litter)  (fallen bract, litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen fower, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen yellow leaf, litter)  (living small new leaf, browse, 19.6)  (fallen yellow leaf, litter)	Arachniodes aristata Arachniodes aristata Arachniodes aristata Dryopteris sordicipes Psychotria serpens  Eurya japonica  Arachniodes aristata Arachniodes aristata Eurya japonica  Ardisia sieboldii Distylium racemosum Eurya emarginata Eurya japonica Oleyera japonica Microlepia strigosa Arachniodes aristata Stephania japonica Microlepia strigosa Microlepia strigosa Arachniodes aristata Stephania japonica Microlepia strigosa Arachniodes aristata	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 65.7) (living mature leaf, fern, 85.7) (living mature leaf, browse, 13.0) (living mature leaf, browse, 50.0) (living mature leaf, browse, 50.0) (living mature leaf, browse, 51.1) (living mature leaf, browse, 51.1) (living mature leaf, browse, 16.7) (living mature leaf, browse, 77.9) (living mature leaf, fern, 47.6) (living mature leaf, fern, 47.6) (living mature leaf, fern, 47.8) (living mature leaf, fern, 47.8) (living mature leaf, fern, 47.8) (living mature leaf, fern, 48.2) (living mature leaf, fern, 88.2) (living mature leaf, fern, 88.2)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua Vernicia cordata Eurya japonica Arachniodes aristata Arachniodes aristata Eurya emarginata  Nephrolepis cordifolia	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, browse, 22.2) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0) (living mature leaf, fern, 10.4) (living mature leaf, fern, 47.6) (living mature leaf, browse, 19.6) (living mature leaf, browse, 19.6)	Myrsine seguinii Distylium racemosum  Camellia sasanqua  Cleyera japonica	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)  (living new leaf, browse, 25.0)  (living new leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litesa acuminata Cinnamonum camphora Cinnamonum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litese acuminata Lithocarpus edulis Litese acuminata Lithocarpus edulis NA Litese japonica	(fallen brown leaf)
29   Teto male   30   Q   female   31   Q   female   32   Q   female   33   Yon   female   35   Q   female   35   Q   female   36   Q   female   37   Q   female   40   Yon   female   41   Q   female   42   Q   female   42   Q   female   44   Teto male   45   Teto male   46   Teto male   47   Teto male   48   Yon   female   49   Yon   female   49   Yon   female   40   Teto male   41   Teto male   42   Teto male   43   Teto male   44   Teto male   45   Teto male   46   Teto male   47   Teto male   48   Yon   female   49   Teto male   49   Teto male   40   Teto	2006 winter 2006 spring	Rhus succedanea Rhus succedanea Camellia japonica Elaeocarpus sylvestris Rhus succedanea Cinnamonum camphora Cinnamonum camphora Elaeocarpus sylvestris Rhaphiolepis indica Psychotria rubra UI Rhus succedanea Rhyus succedanea Myrica rubra Castanopsis sieboldii Boehmeria holosericea Elaeocarpus sylvestris Melia azedarach Eurya emarginata Melia azedarach Rhaphiolepis indica Rhaphiolepis indica Rhaphiolepis indica	(fallen seed. litter)**  (fallen seed. litter)  (fallen bract. litter)  (fallen bract. litter)  (fallen bract. litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen fruit, litter)*  (fallen fruit, litter)*  (fallen fruit, litter)  (fallen fruit, litter)  (fallen fruit, litter)  (fallen fruit, litter)  (fallen yellow leaf, litter)  (fallen yellow leaf, litter)  (fallen yellow leaf, litter)  (fallen preen leaf, litter)  (fallen preen leaf, litter)	Arachniodes aristata Arachniodes aristata Arachniodes aristata Dryopteris sordicipes Psychotria serpens  Eurva japonica  Arachniodes aristata Arachniodes aristata Arachniodes aristata Eurya japonica Ardisia sieboldii Distylium racemosum Eurya emarginata Eurya japonica Clevera japonica Clevera japonica Microlepia strigosa Arachniodes aristata Stephania japonica Microlepia strigosa Arachniodes aristata Stephania japonica Arachniodes aristata Eurya emarginata	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7)  (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 65.7) (living mature leaf, fern, 85.7) (living mature leaf, browse, 13.0) (living mature leaf, browse, 50.0) (living mature leaf, browse, 58.1) (living mature leaf, browse, 58.1) (living mature leaf, browse, 16.7) (living mature leaf, fern, 27.9) (living mature leaf, fern, 47.6) (living mature leaf, fern, 47.6) (living mature leaf, fern, 47.6) (living mature leaf, fern, 88.2) (living mature leaf, fern, 88.2) (living mature leaf, fern, 19.9)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua Vernicia cordata Eurya japonica Arachniodes aristata Arachniodes aristata Eurya emarginata Mephrolepis cordifolia Melia azedarach	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, browse, 22.2) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, browse, 14.4) (living mature leaf, fern, 47.6) (living mature leaf, fern, 47.6) (living mature leaf, fern, 21.6) (living mature leaf, fern, 21.6) (living mature leaf, fern, 21.6)	Myrsine seguinii Distylium racemosum  Camellia sasanqua  Cleyera japonica	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)  (living new leaf, browse, 25.0)  (living new leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamonum camphora Cinnamonum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Ardisia siseboldii Myrica rubra Quercus salicina NA Litsea japonica	(fallen brown leaf)
29   Teto male   30   Q   Female   31   Q   Female   33   Yon   Female   34   Yon   Female   35   Q   Female   36   Q   Female   37   Q   Female   38   Q   Female   39   Yon   Female   40   Yon   Female   41   Q   Female   42   Q   Female   44   Teto male   45   Teto male   46   Teto male   47   Teto male   48   Yon   Temale   49   Yon   Temale   49   Teto male   40   Teto male   41   Teto male   42   Teto male   43   Teto male   44   Teto male   45   Teto male   45   Teto male   47   Teto male   47   Teto male   48   Teto male   49   Teto male   40   Teto ma	2006 winter 2006 spring 2006 summer	Rhus succedanea Rhus succedanea Camellia japonica  Elaeocarpus sylvestris Rhus succedanea Cinnamonum camphora Cinnamonum camphora Elaeocarpus sylvestris Rhaphiolepis indica Psychotria rubra Ul Rhus succedanea Rhus succedanea Rhus succedanea Rhus succedanea Rhus succedanea Elaeocarpus sylvestris Boehmeria holosericea Elaeocarpus sylvestris Melia azedarach Eurya emarginata Melia azedarach Rhaphiolepis indica monocol sp. Trema orientalis	(fallen seed. litter)**  (fallen seed. litter)  (fallen bract, litter)  (fallen red leaf, litter)*  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen fallen fallen;  (fallen fallen fillen;  (fallen flower, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen yellow leaf, litter)  (fallen yellow leaf, litter)  (fallen yellow leaf, litter)  (fallen green leaf, litter)  (fallen green leaf, litter)	Arachniodes aristata Arachniodes aristata Arachniodes aristata Dryopteris sordicipes Psychotria serpens Eurya japonica  Arachniodes aristata Arachniodes aristata Eurya japonica Ardisia sieboldii Distylium racemosum Eurya emarginata Eurya japonica Clevera japonica Stephania japonica Microlepia strigosa Arachniodes aristata Stephania japonica Microlepia strigosa Arachniodes aristata Eurya emarginata Eurya emarginata	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 66.7) (living mature leaf, fern, 68.7) (living mature leaf, browse, 13.0) (living mature leaf, browse, 13.0) (living mature leaf, browse, 87.5) (living mature leaf, browse, 50.0) (living mature leaf, browse, 50.0) (living mature leaf, fromse, 50.0) (living mature leaf, fromse, 50.1) (living mature leaf, fromse, 77.9) (living mature leaf, fromse, 77.9) (living mature leaf, fromse, 49.0) (living mature leaf, fern, 47.6) (living mature leaf, fern, 88.2) (living mature leaf, fern, 71.9) (living mature leaf, fern, 71.9) (living mature leaf, fern, 71.9) (living mature leaf, fern, 61.7) (living mature leaf, fern, 66.7)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua Vernicia cordata Eurya japonica Arachniodes aristata Arachniodes aristata Eurya emarginata  Nephrolepis cordifolia Melia azedarach Ophiorhiza japonica	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, browse, 22.2) (living mature leaf, browse, 33.3) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, fern, 47.6) (living mature leaf, browse, 19.6) (living mature leaf, fern, 21.6) (living mature leaf, fern, 21.6) (living mature leaf, browse, 17.4) (living mature leaf, browse, 17.4) (living mature leaf, browse, 17.4) (living mature leaf, fern, 21.6) (living mature leaf, browse, 17.4)	Myrsine seguinii Distylium racemosum  Camellia sasanqua  Cleyera japonica	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)  (living new leaf, browse, 25.0)  (living new leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamonum camphora Cinnamonum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Litsea acuminata Ardisia sieboldii Myrica rubra Quercus salicina NA Litsea japonica	(fallen brown leaf)
29   Teto male   30	2006 winter 2006 spring	Rhus succedanea Rhus succedanea Camellia japonica  Elaeocarpus sylvestris Rhus succedanea Cinnamonum camphora Cinnamonum camphora Elaeocarpus sylvestris Rhaphiolepis indica Psychotria rubra UI Rhus succedanea Rhus succedanea Myrica rubra Gastanopsis sieboldii Boehmeria holosericea Elaeocarpus sylvestris Melia azedarach Eurya emarginata Melia azedarach Rhaphiolepis indica monocot sp. Trema orientalis Hibisous makinoi	(fallen seed. litter)*2 (fallen seed. litter) (fallen bract, litter) (fallen bract, litter) (fallen bract, litter) (fallen red leaf, litter) (fallen red leaf, litter) (fallen red leaf, litter) (fallen flower, litter) (fallen flower, litter) (fallen flower, litter) (fallen flower, litter) (fallen fruit, litter)*4 (fallen fruit, litter)*4 (fallen red leaf, litter) (fallen red leaf, litter) (fallen yellow leaf, litter) (fallen green leaf, litter) (living small new leaf, srowse, 19.6) (fallen yellow leaf, litter) (living mature leaf, monocot, +) (fallen yellow leaf, litter) (living bart, 11.2)	Arachniodes aristata Arachniodes aristata Arachniodes aristata Dryopteris sordidipes Psychotria serpens  Eurya japonica  Arachniodes aristata Arachniodes aristata Eurya japonica  Ardisia sieboldii Distylium racemosum Eurya emarginata Eurya japonica Arista sieboldii Distylium racemosum Eurya japonica Stephania japonica Microlepia strigosa Arachniodes aristata Stephania japonica Microlepia strigosa Arachniodes aristata Stephania japonica Arachniodes aristata Eurya emarginata Arachniodes aristata Eurya emarginata Arachniodes aristata	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 66.7) (living mature leaf, fern, 65.7) (living mature leaf, browse, 50.0) (living mature leaf, browse, 50.0) (living mature leaf, browse, 58.1) (living mature leaf, browse, 58.1) (living mature leaf, browse, 16.7) (living mature leaf, fern, 67.6) (living mature leaf, fern, 77.6) (living mature leaf, fern, 78.6) (living mature leaf, fern, 79.6) (living mature leaf, fern, 88.2) (living mature leaf, fern, 88.2) (living mature leaf, fern, 66.7) (living mature leaf, fern, 66.7) (living mature leaf, fern, 66.7) (living mature leaf, fern, 68.7) (living mature leaf, fern, 68.7) (living mature leaf, fern, 68.7)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua Vernicia cordata Eurya japonica Arachniodes aristata Arachniodes aristata Eurya emarginata Mephrolepis cordifolia Melia azedarach	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, browse, 22.2) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, browse, 14.4) (living mature leaf, fern, 47.6) (living mature leaf, fern, 47.6) (living mature leaf, fern, 21.6) (living mature leaf, fern, 21.6) (living mature leaf, fern, 21.6)	Myrsine seguinii Distylium racemosum  Camellia sasanqua  Cleyera japonica	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)  (living new leaf, browse, 25.0)  (living new leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamonum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Ardisia sieboldii Myrica rubra Quercus salicina NA Litsea japonica	(fallen brown leaf)
29   Teto male   30 Q   Female   31 Q   Female   32 Q   Female   33   Yon   Female   34   Yon   Female   35 Q   Female   36 Q   Female   37 Q   Female   38 Q   Female   39   Yon   Female   40   Yon   Female   41 Q   Female   42 Q   Female   42 Q   Female   43   Teto male   44   Teto male   45   Teto male   46   Teto male   47   Teto male   48   Yon   Female   49   Teto male   40   Teto male   41   Teto male   42   Teto male   43   Teto male   44   Teto male   45   Teto male   45   Teto male   46   Teto male   47   Teto male   47   Teto male   48   Teto male   49   Teto male   40   Teto male	2006 winter 2006 spring	Rhus succedanea Rhus succedanea Camellia japonica  Elaeocarpus sylvestris Rhus succedanea Climamonum camphora Cimamonum camphora Cimamonum camphora Elaeocarpus sylvestris Rhanhiolegis indica Psychotria rubra U Rhus succedanea Rhus succedanea Rhus succedanea Rhus succedanea Rhus succedanea Elaeocarpus sylvestris Baehmeria holosericaa Elaeocarpus sylvestris Melia azedarach Rhaphiolegis indica monocot so, Trema orientalis Hibisous makinoi Swida maconphylla	(fallen seed. litter)**  (fallen seed. litter)  (fallen bract, litter)  (fallen red leaf, litter)*  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen fallen fallen;  (fallen fallen fillen;  (fallen flower, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen yellow leaf, litter)  (fallen yellow leaf, litter)  (fallen yellow leaf, litter)  (fallen green leaf, litter)  (fallen green leaf, litter)	Arachniodes aristata Arachniodes aristata Arachniodes aristata Dryopteris sordicipes Psychotria serpens Eurya japonica  Arachniodes aristata Arachniodes aristata Eurya japonica Ardisia sieboldii Distylium racemosum Eurya emarginata Eurya japonica Clevera japonica Stephania japonica Microlepia strigosa Arachniodes aristata Stephania japonica Microlepia strigosa Arachniodes aristata Eurya emarginata Eurya emarginata	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 66.7) (living mature leaf, fern, 68.7) (living mature leaf, browse, 13.0) (living mature leaf, browse, 13.0) (living mature leaf, browse, 87.5) (living mature leaf, browse, 50.0) (living mature leaf, browse, 50.0) (living mature leaf, fromse, 50.0) (living mature leaf, fromse, 50.1) (living mature leaf, fromse, 77.9) (living mature leaf, fromse, 77.9) (living mature leaf, fromse, 49.0) (living mature leaf, fern, 47.6) (living mature leaf, fern, 88.2) (living mature leaf, fern, 71.9) (living mature leaf, fern, 71.9) (living mature leaf, fern, 71.9) (living mature leaf, fern, 61.7) (living mature leaf, fern, 66.7)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua Vernicia cordata Eurya japonica Arachniodes aristata Arachniodes aristata Eurya emarginata  Nephrolepis cordifolia Melia azedarach Ophiorhiza japonica	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, browse, 22.2) (living mature leaf, browse, 33.3) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, fern, 47.6) (living mature leaf, browse, 19.6) (living mature leaf, fern, 21.6) (living mature leaf, fern, 21.6) (living mature leaf, browse, 17.4) (living mature leaf, browse, 17.4) (living mature leaf, browse, 17.4) (living mature leaf, fern, 21.6) (living mature leaf, browse, 17.4)	Myrsine seguinii Distylium racemosum  Camellia sasanqua  Cleyera japonica	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)  (living new leaf, browse, 25.0)  (living new leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamonum camphora Cinnamonum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Litsea acuminata Ardisia sieboldii Myrica rubra Quercus salicina NA Litsea japonica	(fallen brown leaf)
29   Teto male   30   Q   Female   31   Q   Female   32   Q   Female   33   Yon   Female   34   Yon   Female   35   Q   Female   36   Q   Female   37   Q   Female   40   Yon   Female   41   Q   Female   41   Q   Female   42   Q   Female   44   Teto   Teto   45   Teto   Teto   47   Teto   Teto   48   Yon   Female   49   Teto   T	2006 winter 2006 spring	Rhus succedanea Rhus succedanea Camellia japonica  Elaeocarpus sylvestris Rhus succedanea Cinnamonum camphora Cinnamonum camphora Elaeocarpus sylvestris Rhaphiolepis indica Psychotria rubra UI Rhus succedanea Rhus succedanea Myrica rubra Gastanopsis sieboldii Boehmeria holosericea Elaeocarpus sylvestris Melia azedarach Eurya emarginata Melia azedarach Rhaphiolepis indica monocot sp. Trema orientalis Hibisous makinoi	(fallen seed. litter)*2 (fallen seed. litter) (fallen bract, litter) (fallen bract, litter) (fallen bract, litter) (fallen red leaf, litter) (fallen red leaf, litter) (fallen red leaf, litter) (fallen flower, litter) (fallen flower, litter) (fallen flower, litter) (fallen flower, litter) (fallen fruit, litter)*4 (fallen fruit, litter)*4 (fallen red leaf, litter) (fallen red leaf, litter) (fallen yellow leaf, litter) (fallen green leaf, litter) (living small new leaf, srowse, 19.6) (fallen yellow leaf, litter) (living mature leaf, monocot, +) (fallen yellow leaf, litter) (living bart, 11.2)	Arachniodes aristata Arachniodes aristata Arachniodes aristata Dryopteris sordidipes Psychotria serpens  Eurya japonica  Arachniodes aristata Arachniodes aristata Eurya japonica  Ardisia sieboldii Distylium racemosum Eurya emarginata Eurya japonica Arista sieboldii Distylium racemosum Eurya japonica Stephania japonica Microlepia strigosa Arachniodes aristata Stephania japonica Microlepia strigosa Arachniodes aristata Stephania japonica Arachniodes aristata Eurya emarginata Arachniodes aristata Eurya emarginata Arachniodes aristata	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 66.7) (living mature leaf, fern, 65.7) (living mature leaf, browse, 50.0) (living mature leaf, browse, 50.0) (living mature leaf, browse, 58.1) (living mature leaf, browse, 58.1) (living mature leaf, browse, 16.7) (living mature leaf, fern, 67.6) (living mature leaf, fern, 77.6) (living mature leaf, fern, 78.6) (living mature leaf, fern, 79.6) (living mature leaf, fern, 88.2) (living mature leaf, fern, 88.2) (living mature leaf, fern, 66.7) (living mature leaf, fern, 66.7) (living mature leaf, fern, 66.7) (living mature leaf, fern, 68.7) (living mature leaf, fern, 68.7) (living mature leaf, fern, 68.7)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua Vernicia cordata Eurya japonica Arachniodes aristata Arachniodes aristata Eurya emarginata  Nephrolepis cordifolia Melia azedarach Ophiorhiza japonica	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, browse, 22.2) (living mature leaf, browse, 33.3) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, fern, 47.6) (living mature leaf, browse, 19.6) (living mature leaf, fern, 21.6) (living mature leaf, fern, 21.6) (living mature leaf, browse, 17.4) (living mature leaf, browse, 17.4) (living mature leaf, browse, 17.4) (living mature leaf, fern, 21.6) (living mature leaf, browse, 17.4)	Myrsine seguinii Distylium racemosum  Camellia sasanqua  Cleyera japonica	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)  (living new leaf, browse, 25.0)  (living new leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamonum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Ardisia sieboldii Myrica rubra Quercus salicina NA Litsea japonica	(fallen brown leaf)
29   Teto male   30   Q   Female   31   Q   Female   33   Yon   Female   34   Yon   Female   36   Q   Female   36   Q   Female   37   Q   Female   38   Q   Female   39   Yon   Female   40   Yon   Female   41   Q   Female   42   Q   Female   44   Teto male   45   Teto male   46   Teto male   47   Teto male   48   Yon   Female   49   Teto male   49   Teto male   49   Teto male   50   Teto male   50   Teto male   51   Teto male   51   Teto male   52   Q   Female   55   Q   Female   55   Q   Female   57   Teto male   57   Q   Female   57   Q   Fema	2006 winter 2006 spring 2006 summer 2006 summer 2006 summer 2006 summer	Rhus succedanea Rhus succedanea Camellia japonica  Elaeocarpus sylvestris Rhus succedanea Climamonum camphora Cimamonum camphora Cimamonum camphora Elaeocarpus sylvestris Rhanhiolegis indica Psychotria rubra U Rhus succedanea Rhus succedanea Rhus succedanea Rhus succedanea Rhus succedanea Elaeocarpus sylvestris Baehmeria holosericaa Elaeocarpus sylvestris Melia azedarach Rhaphiolegis indica monocot so, Trema orientalis Hibisous makinoi Swida maconphylla	(fallen seed. litter)**  (fallen seed. litter)  (fallen bract, litter)  (fallen bract, litter)  (fallen bract, litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen flower, litter)  (fallen red leaf, litter)  (fallen vellow leaf, litter)  (fallen vellow leaf, litter)  (fallen yellow leaf, litter)  (fallen green leaf, litter)  (fallen green leaf, litter)  (fallen green leaf, litter)  (fallen green leaf, litter)  (fallen prelow leaf, litter)  (fallen fruit, litter)  (fallen fruit, litter)  (fallen fruit, litter)	Arachniodes aristata Arachniodes aristata Arachniodes aristata Dryopteris sordidipes Psychotria serpens  Eurya japonica  Arachniodes aristata Arachniodes aristata Eurya japonica  Ardisia sieboldii Distylium racemosum Eurya emarginata Eurya japonica Arista sieboldii Distylium racemosum Eurya japonica Stephania japonica Microlepia strigosa Arachniodes aristata Stephania japonica Microlepia strigosa Arachniodes aristata Stephania japonica Arachniodes aristata Eurya emarginata Arachniodes aristata Eurya emarginata Arachniodes aristata	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 66.7) (living mature leaf, fern, 65.7) (living mature leaf, browse, 50.0) (living mature leaf, browse, 50.0) (living mature leaf, browse, 58.1) (living mature leaf, browse, 58.1) (living mature leaf, browse, 16.7) (living mature leaf, fern, 67.6) (living mature leaf, fern, 77.6) (living mature leaf, fern, 78.6) (living mature leaf, fern, 79.6) (living mature leaf, fern, 88.2) (living mature leaf, fern, 88.2) (living mature leaf, fern, 66.7) (living mature leaf, fern, 66.7) (living mature leaf, fern, 66.7) (living mature leaf, fern, 68.7) (living mature leaf, fern, 68.7) (living mature leaf, fern, 68.7)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua Vernicia cordata Eurya japonica Arachniodes aristata Arachniodes aristata Eurya emarginata  Nephrolepis cordifolia Melia azedarach Ophiorhiza japonica	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, browse, 22.2) (living mature leaf, browse, 33.3) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, fern, 47.6) (living mature leaf, browse, 19.6) (living mature leaf, fern, 21.6) (living mature leaf, fern, 21.6) (living mature leaf, browse, 17.4) (living mature leaf, browse, 17.4) (living mature leaf, browse, 17.4) (living mature leaf, fern, 21.6) (living mature leaf, browse, 17.4)	Myrsine seguinii Distylium racemosum  Camellia sasanqua  Cleyera japonica	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)  (living new leaf, browse, 25.0)  (living new leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamonum camphora Cinnamonum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Ardisia sieboldii Myrica ruba Myrica ruba Litsea japonica	(fallen brown leaf)
29   Teto male   30	2006 winter 2006 spring	Rhus succedanea Rhus succedanea Camellia japonica Elaeocarpus sylvestris Rhus succedanea Cinnamonum camphora Cinnamonum camphora Cinnamonum camphora Elaeocarpus sylvestris Rhaphiolepis indica Psychotria rubra UI Rhus succedanea Rhus succedanea Rhus succedanea Myrica rubra Gastanopsis sieboldii Boehmeria holosericea Elaeocarpus sylvestris Melia azedarach Eurya emarginata Melia azedarach Rhaphiolepis indica monocot sp. Trema orientalis Hibiscus makinoi Swida macrophylla Lithocarpus edulis	(fallen seed. litter)**  (fallen seed. litter)*  (fallen seed. litter)  (fallen bract, litter)  (fallen bract, litter)  (fallen bract, litter)  (fallen red leaf. litter)*  (fallen red leaf. litter)  (fallen frewer, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen fruit, litter)*  (fallen red leaf. litter)  (fallen red leaf. litter)  (fallen fruit, litter)*  (fallen red leaf. litter)  (fallen red leaf. litter)  (fallen red leaf. litter)  (fallen yellow leaf, litter)  (fallen yellow leaf, litter)  (fallen gene leaf. litter)  (fallen gene leaf. litter)  (fallen green leaf. litter)  (fallen frait, litter)  (fallen fruit, litter)  (fallen fruit, litter)  (fallen seed. litter)*  (fallen seed. litter)*	Arachniodes aristata Arachniodes aristata Arachniodes aristata Dryopteris sordicipes Psychotria serpens  Eurya japonica  Arachniodes aristata Arachniodes aristata Eurya japonica  Ardisia sieboldii Distylium racemosum Eurya emarginata Eurya japonica Microlepia strigosa Arachniodes aristata Stephania japonica Microlepia strigosa Arachniodes aristata Stephania japonica Microlepia strigosa Arachniodes aristata Eurya emarginata Eurya emarginata Eurya emarginata Camellia sasanqua	(living mature leaf, fern, 69.6) (living mature leaf, fern, 55.7) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 66.7) (living mature leaf, fern, 65.7) (living mature leaf, browse, 50.0) (living mature leaf, browse, 50.0) (living mature leaf, browse, 58.1) (living mature leaf, browse, 58.1) (living mature leaf, frowse, 58.1) (living mature leaf, frowse, 16.7) (living mature leaf, frowse, 77.9) (living mature leaf, fern, 47.6) (living mature leaf, fern, 97.6)* (living mature leaf, frowse, 49.0) (living mature leaf, frowse, 49.0) (living mature leaf, frowse, 79.1) (living mature leaf, frowse, 79.1) (living mature leaf, fromse, 71.9) (living mature leaf, frowse, 72.1) (living mature leaf, frowse, 73.2) (living mature leaf, frowse, 73.2) (living mature leaf, frowse, 92.9)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua Vernicia cordata Eurya japonica Arachniodes aristata Arachniodes aristata Eurya emarginata  Nephrolepis cordifolia Melia azedarach Ophiorhiza japonica	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, browse, 22.2) (living mature leaf, browse, 33.3) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, fern, 47.6) (living mature leaf, browse, 19.6) (living mature leaf, fern, 21.6) (living mature leaf, fern, 21.6) (living mature leaf, browse, 17.4) (living mature leaf, browse, 17.4) (living mature leaf, browse, 17.4) (living mature leaf, fern, 21.6) (living mature leaf, browse, 17.4)	Myrsine seguinii Distylium racemosum  Camellia sasanqua  Cleyera japonica	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)  (living new leaf, browse, 25.0)  (living new leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litea acuminata Cinnamonum camphora Lithocarpus edulis Litea acuminata Lithocarpus edulis Litea acuminata Lithocarpus edulis Litea acuminata Ardisia sieboldii Myrica rubra Quercus salicina NA Litsea japonica Litea	(fallen brown leaf)
29   Teto male   30   Q   Female   31   Q   Female   32   Q   Female   33   Yon   Female   34   Yon   Female   36   Q   Female   36   Q   Female   37   Q   Female   38   Q   Female   39   Yon   Female   40   Yon   Female   41   Q   Female   42   Q   Female   44   Teto male   44   Teto male   45   Teto male   46   Teto male   47   Teto male   48   Yon   Female   49   Teto male   49   Teto male   50   Teto male   50   Teto male   51   Teto male   52   Q   Female   53   Q   Female   53   Q   Female   54   Q   Female   55   Q   Q   Q   Q   Q   Q   Q   Q	2006 winter 2006 spring 2006 summer	Rhus succedanea Rhus succedanea Camellia japonica  Elaeocarpus sylvestris Rhus succedanea Cinnamomum camphora Cinnamomum camphora Cinnamomum camphora Elaeocarpus sylvestris Rhanhioleois indica Psychotria rubra Ul Rhus succedanea Rhus succedanea Rhus succedanea Rhus succedanea Rhus succedanea Elaeocarpus sieboldii Boehmeria holosericea Elaeocarpus sylvestris Melia azedarach Rhanhioleois indica monocot sp. Trena orientalis Hibisous makinoi Swida maerophylla Swida maerophylla Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis	(fallen seed. litter)"  (fallen seed. litter)  (fallen seed. litter)  (fallen seed. litter)  (fallen fol leaf. litter)  (fallen seed. litter)  (fallen bract. litter)  (fallen bract. litter)  (fallen bract. litter)  (fallen bract. litter)  (fallen red leaf. litter)  (living mature leaf. browse, 54.3)  (rotten bark, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen fred leaf. litter)  (fallen fred leaf. litter)  (fallen red leaf. litter)  (fallen red leaf. litter)  (fallen yellow leaf. litter)  (fallen green leaf. litter)  (fallen green leaf. litter)  (fallen green leaf. litter)  (fallen green leaf. litter)  (fallen flow leaf. litter)  (fallen flow leaf. litter)  (fallen flow leaf. litter)  (fallen fred. litter)  (fallen fred. litter)  (fallen fred. litter)  (fallen fred. litter)  (fallen fruit. litter) <sup>22</sup> (fallen seed. litter) <sup>33</sup>	Arachniodes aristata Arachniodes aristata Arachniodes aristata Dryopteris sordicipes Psychotria serpens Eurya japonica  Arachniodes aristata Arachniodes aristata Eurya japonica Ardisia sieboldii Distylium racemosum Eurya emarginata Eurya japonica Clevera japonica Clevera japonica Clevera japonica Microlepia strigosa Arachniodes aristata Stephania japonica Microlepia strigosa Arachniodes aristata Eurya emarginata Arachniodes aristata Eurya emarginata Camellia sasanqua Dioranopteris linearis	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 65.7) (living mature leaf, fern, 65.7) (living mature leaf, browse, 13.0) (living mature leaf, browse, 50.0) (living mature leaf, browse, 87.5) (living mature leaf, browse, 58.1) (living mature leaf, browse, 58.1) (living mature leaf, fromse, 79.9) (living mature leaf, fromse, 79.9) (living mature leaf, fern, 47.6) (living mature leaf, fern, 66.7) (living mature leaf, fern, 66.7) (living mature leaf, fern, 68.7) (living mature leaf, fern, 68.7) (living mature leaf, forowse, 92.9)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua Vernicia cordata Eurya japonica Arachniodes aristata Arachniodes aristata Eurya emarginata  Nephrolepis cordifolia Melia azedarach Ophiorhiza japonica	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, browse, 22.2) (living mature leaf, browse, 33.3) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, fern, 47.6) (living mature leaf, browse, 19.6) (living mature leaf, fern, 21.6) (living mature leaf, fern, 21.6) (living mature leaf, browse, 17.4) (living mature leaf, browse, 17.4) (living mature leaf, browse, 17.4) (living mature leaf, fern, 21.6) (living mature leaf, browse, 17.4)	Myrsine seguinii Distylium racemosum  Camellia sasanqua  Cleyera japonica	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)  (living new leaf, browse, 25.0)  (living new leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamonum camphora Cinnamonum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Ardisia sieboldii Myrica ruba Myrica ruba Litsea japonica Litsea	(fallen brown leaf)
29   Teto male   30	2006 winter 2006 spring 2006 summer	Rhus succedanea Rhus succedanea Camellia japonica  Elaeocarpus sylvestris Rhus succedanea Cinnamomum camphora Cinnamomum camphora Elaeocarpus sylvestris Rhaphiolepis indica Psychotri rubra UI Rhaphiolepis indica Rhus succedanea Rhus succedanea Rhus succedanea Rhus succedanea Elaeocarpus sylvestris Boehmeria holosericea Elaeocarpus sylvestris Melia azedarach Eurya emarginata Melia azedarach Rhaphiolepis indica monocot sp. Trema orientalis Hibiscus makinoi Swida maerophylla Swida maerophylla Lithocarpus edulis Lithocarpus edulis Styrax japonica	(fallen seed. litter)**  (fallen seed. litter)  (fallen bract, litter)  (fallen bract, litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen fower, litter)  (fallen flower, litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen vellow leaf, litter)  (fallen vellow leaf, litter)  (fallen yellow leaf, litter)  (fallen flower)  (fallen yellow leaf, litter)  (fallen flower)  (fallen seed. litter)*  (fallen seed. litter)*  (fallen flower)  (fallen flower)	Arachniodes aristata Arachniodes aristata Arachniodes aristata Dryopteris sordicipes Psychotria serpens  Eurya japonica  Arachniodes aristata Arachniodes aristata Arachniodes aristata Eurya japonica Ardisia sieboldii Distylium racemosum Eurya emarginata Eurya japonica Oleyera japonica Microlepia strigosa Arachniodes aristata Stephania japonica Microlepia strigosa Arachniodes aristata Eurya emarginata Arachniodes aristata Eurya emarginata Camellia sasanqua  Dicranopteris linearis Eurya japonica	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 65.7) (living mature leaf, fern, 85.7) (living mature leaf, browse, 13.0) (living mature leaf, browse, 13.0) (living mature leaf, browse, 50.0) (living mature leaf, browse, 16.7) (living mature leaf, fern, 47.6) (living mature leaf, fern, 47.9) (living mature leaf, fern, 47.7)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua Vernicia cordata Eurya japonica Arachniodes aristata Arachniodes aristata Eurya emarginata  Nephrolepis cordifolia Melia azedarach Ophiorniza japonica Arachniodes aristata	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, browse, 22.2) (living mature leaf, browse, 33.3) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, fern, 10.4) (living mature leaf, fern, 47.6) (living mature leaf, browse, 19.6) (living mature leaf, browse, 17.4) (living mature leaf, fern, 21.6) (living mature leaf, fern, 21.6) (living mature leaf, fern, 22.2) (living mature leaf, fern, 27.3)*2	Myrsine seguinii Distylium racemosum  Camellia sasanqua  Cleyera japonica	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)  (living new leaf, browse, 25.0)  (living new leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litesea acuminata Cinnamonum camphora Cinnamonum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litesea acuminata Lithocarpus edulis Litesea japonica Litesea japonica Litsea japonica Litsea japonica Litsea japonica Litsea japonica Litesea japonica Lit	(fallen brown leaf)
29   Teto male   30	2006 winter 2006 spring 2006 summer	Rhus succedanea Rhus succedanea Camellia japonica Elaeocarpus sylvestris Rhus succedanea Cinnamonum camphora Cinnamonum camphora Elaeocarpus sylvestris Rhaphiolepis indica Psychotria rubra Ul Rhus succedanea Rhus succedane	(fallen seed. litter)**  (fallen seed. litter)*  (fallen seed. litter)  (fallen bract, litter)  (fallen bract, litter)  (fallen bract, litter)  (fallen red leaf, litter)*  (fallen red leaf, litter)  (fallen frewer, litter)  (fallen frewer, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen fruit, litter)*  (fallen fruit, litter)*  (fallen fruit, litter)  (fallen red leaf, litter)  (fallen yellow leaf, litter)  (fallen fruit, litter)*  (fallen fruit, litter)  (fallen fruit, litter)  (fallen fruit, litter)*  (fallen seed, litter)*  (fallen seed, litter)*  (fallen seed, litter)*  (fallen fruit, litter)*  (fallen fruit, litter)  (fallen fruit, litter)  (fallen fruit, litter)	Arachniodes aristata Arachniodes aristata Arachniodes aristata Diryopteris sordicipes Psychotria serpens  Eurya japonica  Arachniodes aristata Arachniodes aristata Eurya japonica  Ardisia sieboldii Distylium racemosum Eurya emarginata Eurya japonica Clevera japonica Microlepia strigosa Arachniodes aristata Stephania japonica Microlepia strigosa Arachniodes aristata Stephania japonica Eurya emarginata Eurya emarginata Camellia sasanqua  Dicranopteris linearis Eurya japonica Dicranopteris linearis Eurya japonica	(living mature leaf, fern, 69.6) (living mature leaf, fern, 53.7) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1)  (living mature leaf, fern, 68.7) (living mature leaf, fern, 68.7) (living mature leaf, fern, 55.7) (living mature leaf, browse, 50.0) (living mature leaf, browse, 50.0) (living mature leaf, browse, 58.1) (living mature leaf, browse, 58.1) (living mature leaf, browse, 58.1) (living mature leaf, fromse, 25.0) (living mature leaf, fromse, 77.9) (living mature leaf, fern, 47.6) (living mature leaf, fern, 47.6) (living mature leaf, fern, 47.6) (living mature leaf, fern, 67.7) (living mature leaf, fern, 68.2) (living mature leaf, browse, 79.9) (living mature leaf, fern, 68.7) (living mature leaf, browse, 92.9)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua Vernicia cordata Eurya japonica Arachniodes aristata Arachniodes aristata Eurya emarginata Nephrolepis cordifolia Melia azedarach Ophiorrhiza japonica Arachniodes aristata	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, browse, 22.2) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0) (living mature leaf, fern, 10.4) (living mature leaf, fern, 47.6) (living mature leaf, browse, 17.4) (living mature leaf, browse, 17.4) (living mature leaf, fern, 27.3) (living mature leaf, fern, 27.3) (living mature leaf, fern, 27.3)	Myrsine seguinii Distyllum racemosum  Camellia sasanqua  Cleyera japonica  Boehmeria holoserices	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)  (living new leaf, browse, 25.0)  (living mature leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamonum camphora Lithocarpus edulis Litsea acuminata Litsea acuminata Lithocarpus edulis Litsea acuminata Ardisia sieboldii Myrica rubra Quercus salicina NA Litsea japonica Litsea japonica Litsea japonica Litsea japonica Litsea japonica Litsea japonica NA Litea japonica Litsea japonica Litocarpus edulis Lithocarpus edulis	(fallen brown leaf)
29   Teto male   30	2006 winter 2006 spring 2006 summer	Rhus succedanea Rhus succedanea Camellia japonica  Elaeocarpus sylvestris Rhus succedanea Cinnamomum camphora Cinnamomum camphora Elaeocarpus sylvestris Rhaphiolepis indica Psychotri rubra UI Rhaphiolepis indica Rhus succedanea Rhus succedanea Rhus succedanea Rhus succedanea Elaeocarpus sylvestris Boehmeria holosericea Elaeocarpus sylvestris Melia azedarach Eurya emarginata Melia azedarach Rhaphiolepis indica monocot sp. Trema orientalis Hibiscus makinoi Swida maerophylla Swida maerophylla Lithocarpus edulis Lithocarpus edulis Styrax japonica	(fallen seed. litter)**  (fallen seed. litter)  (fallen bract, litter)  (fallen bract, litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen fower, litter)  (fallen flower, litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen red leaf, litter)  (fallen vellow leaf, litter)  (fallen vellow leaf, litter)  (fallen yellow leaf, litter)  (fallen flower)  (fallen yellow leaf, litter)  (fallen flower)  (fallen seed. litter)*  (fallen seed. litter)*  (fallen flower)  (fallen flower)	Arachniodes aristata Arachniodes aristata Arachniodes aristata Dryopteris sordicipes Psychotria serpens Eurya japonica  Arachniodes aristata Arachniodes aristata Eurya japonica Ardisia sieboldii Distylium racemosum Eurya emarginata Eurya japonica Clevera japonica Stephania japonica Microlepia strigosa Arachniodes aristata Stephania japonica Microlepia strigosa Arachniodes aristata Eurya emarginata Camellia sasanqua  Dicranopteris linearis Eurya iaponica Nephrolepis cordifolia Dicranopteris linearis Eurya japonica Nephrolepis cordifolia	(living mature leaf, fern, 69.6) (living mature leaf, fern, 35.7) (living mature leaf, fern, 27.8) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1)  (living mature leaf, fern, 66.7) (living mature leaf, fern, 66.7) (living mature leaf, browse, 13.0) (living mature leaf, browse, 13.0) (living mature leaf, browse, 87.5) (living mature leaf, browse, 87.5) (living mature leaf, browse, 77.9) (living mature leaf, browse, 16.7) (living mature leaf, fern, 47.6) (living mature leaf, fern, 67.7) (living mature leaf, fern, 67.1) (living mature leaf, fern, 67.1) (living mature leaf, fern, 67.1) (living mature leaf, fern, 67.7) (living mature leaf, fern, 67.7) (living mature leaf, fern, 87.7) (living mature leaf, fern, 87.7) (living mature leaf, fern, 87.7) (living mature leaf, fern, 68.7)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua Vernicia cordata Eurya japonica Arachniodes aristata Arachniodes aristata Eurya emarginata  Nephrolepis cordifolia Melia azedarach Ophiorniza japonica Arachniodes aristata	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, browse, 22.2) (living mature leaf, browse, 33.3) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, browse, 25.0) (living mature leaf, fern, 10.4) (living mature leaf, fern, 47.6) (living mature leaf, browse, 19.6) (living mature leaf, browse, 17.4) (living mature leaf, fern, 27.3)	Myrsine seguinii Distylium racemosum  Camellia sasanqua  Cleyera japonica	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)  (living new leaf, browse, 25.0)  (living new leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litesea acuminata Cinnamonum camphora Cinnamonum camphora Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litsea acuminata Lithocarpus edulis Litesea acuminata Lithocarpus edulis Litesea japonica Litesea japonica Litsea japonica Litsea japonica Litsea japonica Litsea japonica Litesea japonica Lit	(fallen brown leaf)
29   Teto male   30   Q   Female   31   Q   Female   32   Q   Female   33   Yon   Female   34   Yon   Female   35   Q   Female   36   Q   Female   37   Q   Female   40   Yon   Female   41   Q   Female   41   Q   Female   42   Q   Female   44   Teto   T	2006 winter 2006 spring 2006 summer	Rhus succedanea Rhus succedanea Camellia japonica Elaeocarpus sylvestris Rhus succedanea Cinnamonum camphora Cinnamonum camphora Elaeocarpus sylvestris Rhaphiolepis indica Psychotria rubra Ul Rhus succedanea Rhus succedane	(fallen seed. litter)**  (fallen seed. litter)*  (fallen seed. litter)  (fallen bract, litter)  (fallen bract, litter)  (fallen bract, litter)  (fallen red leaf, litter)*  (fallen red leaf, litter)  (fallen frewer, litter)  (fallen frewer, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen flower, litter)  (fallen fruit, litter)*  (fallen fruit, litter)*  (fallen fruit, litter)  (fallen red leaf, litter)  (fallen yellow leaf, litter)  (fallen fruit, litter)*  (fallen fruit, litter)  (fallen fruit, litter)  (fallen fruit, litter)*  (fallen seed, litter)*  (fallen seed, litter)*  (fallen seed, litter)*  (fallen fruit, litter)*  (fallen fruit, litter)  (fallen fruit, litter)  (fallen fruit, litter)	Arachniodes aristata Arachniodes aristata Arachniodes aristata Diryopteris sordicipes Psychotria serpens  Eurya japonica  Arachniodes aristata Arachniodes aristata Eurya japonica  Ardisia sieboldii Distylium racemosum Eurya emarginata Eurya japonica Clevera japonica Microlepia strigosa Arachniodes aristata Stephania japonica Microlepia strigosa Arachniodes aristata Stephania japonica Eurya emarginata Eurya emarginata Camellia sasanqua  Dicranopteris linearis Eurya japonica Dicranopteris linearis Eurya japonica	(living mature leaf, fern, 69.6) (living mature leaf, fern, 53.7) (living mature leaf, fern, 27.8) (living mature leaf, browse, 16.7) (living mature leaf, browse, 16.7) (living mature leaf, browse, 57.1)  (living mature leaf, fern, 68.7) (living mature leaf, fern, 68.7) (living mature leaf, fern, 55.7) (living mature leaf, browse, 50.0) (living mature leaf, browse, 50.0) (living mature leaf, browse, 58.1) (living mature leaf, browse, 58.1) (living mature leaf, browse, 58.1) (living mature leaf, fromse, 25.0) (living mature leaf, fromse, 77.9) (living mature leaf, fern, 47.6) (living mature leaf, fern, 47.6) (living mature leaf, fern, 47.6) (living mature leaf, fern, 67.7) (living mature leaf, fern, 68.2) (living mature leaf, browse, 79.9) (living mature leaf, fern, 68.7) (living mature leaf, browse, 92.9)	Eurya japonica Ternstroemia gymnanthera Arisaema serratum  Camellia sasanqua Ardisia sieboldii  Camellia sasanqua Vernicia cordata Eurya japonica Arachniodes aristata Arachniodes aristata Eurya emarginata Nephrolepis cordifolia Melia azedarach Ophiorrhiza japonica Arachniodes aristata	(living mature leaf, browse, 28.6) (living mature leaf, browse, 22.2) (living mature leaf, browse, 22.2) (living mature leaf, browse, 33.3) (living mature leaf, browse, 14.3) (living mature leaf, browse, 25.0) (living mature leaf, fern, 10.4) (living mature leaf, fern, 47.6) (living mature leaf, browse, 17.4) (living mature leaf, browse, 17.4) (living mature leaf, fern, 27.3) (living mature leaf, fern, 27.3) (living mature leaf, fern, 27.3)	Myrsine seguinii Distyllum racemosum  Camellia sasanqua  Cleyera japonica  Boehmeria holoserices	(living mature leaf, browse, 14.3) (living mature leaf, browse, 16.7)  (living new leaf, browse, 25.0)  (living mature leaf, browse, 16.7)	Quercus salicina Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Lithocarpus edulis Litsea acuminata Cinnamonum camphora Lithocarpus edulis Litsea acuminata Litsea acuminata Lithocarpus edulis Litsea acuminata Ardisia sieboldii Myrica rubra Quercus salicina NA Litsea japonica Litsea japonica Litsea japonica Litsea japonica Litsea japonica Litsea japonica NA Litea japonica Litsea japonica Litocarpus edulis Lithocarpus edulis	(fallen brown leaf)

+, relative coverage was less than 10 %.
NA, not available at the feeding plot.

UI, species unidentified.

UI, species unidentified.

\*1, feeding job t No.6 and No.16 were the same location used in different days for different food items in the same season.

\*2, sample was not collected the feeding plot but shared with that collected in neighboring feeding plot within 160m in the same season.

\*3, sample was combined with that from neighbor feeding plot within 120m in the same season.

\*4, sample for fat analysis was collected different place of the feeding plot.

# Table S2

U., y. 1	Species	(part/condition, type)	Year Season N	rude fat *2 mean range	Crude protein N*2 mean range		Structural carbohydrate L N*2 mean range N	Lignin N*2 mean range		Condense tannin N*2 mean range	Ash N*2 mean rang
	Ficus superba Rhus succedanea	(fallen green leaf by monkey, litter)	2005 winter 2005 winter	1 2.67	1 12.82	1 8.06 1 13.75	N mean range f 1 34.32 1 26.45	1 23.66 1 9.96	1 5.11 1 32 02	1 1.29 1 0.88	1 8.65
	Trema orientalis	(fallen red leaf, litter) (fallen green leaf by monkey, litter)	2005 winter	1 2.63 1 2.16	1 6.01 1 20.73	1 7.02	1 25.79	1 27.29	1 2.49	1 0.79	1 4.81 1 14.68
	Rubus grayanus Psvchotria rubra	(living new bud, browse) (living mature leaf, browse)	2005 winter 2005 winter	1 1.03 1 0.54	1 20.71 1 11.70	1 9.58 1 14.08	1 27.08 1 38.26	1 16.92 1 14.26	1 21.71 1 10.99	1 1.34	1 8.00 1 2.68
	Lithocarpus edulis	(fallen brown leaf, litter)	2005 winter	2 5.14 4.50-5.77	2 7.98 7.73-8.23	2 4.77 4.46-5.08	2 31.42 30.82-32.02	2 38.59 36.22-40.97	2 2.30 2.03-2.58	2 0.64 0.59-0.69	2 5.24 3.93
	Litsea acuminata Cryptmeria japonica	(fallen brown leaf, litter) (fallen brown leaf, litter)	2005 winter 2005 winter	2 3.03 2.87-3.19 1 7.61	2 12.05 9.49-14.60 1 7.14	2 4.39 3.39-5.38 1 6.55	2 29.54 28.21-30.87 1 25.80	2 39.86 36.02-43.70 1 29.96	2 1.56 1.26-1.86 1 4.07	2 0.36 0.29-0.42 1 1.29	2 5.14 3.90- 1 4.59
	Litsea acuminata	(living mature leaf, browse)	2005 winter 2005 winter	3 2.36 2.18-2.46 1 1.97	3 12.67 12.31-12.91 1 11.19	3 17.86 16.48-20.25 1 20.88	3 32.92 31.71-33.55 1 37.69	3 28.37 27.03-29.96 1 19.36	3 6.53 6.12-6.82 1 9.47	3 1.94 1.75-2.07 1 2.07	3 4.87 4.59 1 6.95
	Dicranopteris linearis Camellia japonica	(living mature leaf, fern) (living mature leaf, browse)	2005 winter 2005 winter	1 1.97	1 11.19	1 20.88	1 37.69	1 14.99	1 9.47	1 2.07	1 6.95
	Pteris wallichiana Camellia sasangua	(living mature leaf, fern) (living mature leaf, browse)	2005 winter 2005 winter	1 1.72 2 1.41 1.28-1.54	1 23.47 2 11.24 11.13-11.35	1 15.83 2 18.39 15.99-20.80	1 30.82 2 32.53 31.09-33.96	1 17.11 2 11.93 11.75-12.11	1 6.11 2 6.44 6.40-6.48	1 1.22 2 0.40 0.35-0.46	1 9.66 2 6.04 5.93
	Eurya japonica	(living mature leaf, browse)	2005 winter	1 1.40	1 9.42	1 16.89	1 30.05	1 13.50	1 6.07	1 0.64	1 8.21
	Symplocos lucida Arachniodes aristata	(living mature leaf, browse) (living mature leaf, fern)	2005 winter 2005 winter	1 0.97 2 0.57 0.55-0.58	1 8.74 2 10.81 10.27-11.35	1 9.86 2 18.20 16.94-19.46	1 27.68 2 39.86 36.16-43.55	1 18.32 2 23.57 21.19-25.95	1 0.89 2 9.72 8.79-10.64	1 0.45 2 4.04 3.96-4.11	1 11.72 2 5.73 5.51-
	Dryopteris sordidipes Sarcandra glabra	(living mature leaf, fern) (living mature leaf, dicot)	2005 winter 2005 winter 2005 winter	1 2.58	1 10.13 1 10.66	1 17.14 1 13.52	1 38.94 1 32.48	1 14.29 1 13.74	1 10.10 1 6.35	1 2.00	1 6.97
	Rhaphiolepis indica	(fallen red leaf, litter)	2005 spring	2 6.64 6.62-6.65	2 2.57 2.34-2.80	2 10.57 7.49-13.64	2 37.97 34.30-41.65	2 21.24 17.02-25.46	2 4.81 4.64-4.99	2 1.38 1.19-1.57	2 5.90 5.33
	Machilus thunbergii Schefflera octophylla	(fallen immature fruit, litter) (fallen yellow leaf, litter)	2005 spring 2005 spring	2 5.49 5.33-5.64 1 4.86	2 15.50 14.48-16.51 1 7.23	2 9.73 8.44-11.03 1 10.62	2 26.27 22.11-30.43 1 42.10	2 39.14 37.25-41.03 1 12.73	2 3.37 2.83-3.92 1 3.32	2 1.14 1.07-1.21 1 0.77	2 6.61 6.34 1 7.26
	Schefflera octophylla Machilus thunbergii	(fallen dried green leaf, litter) (fallen bud scale, litter)	2005 spring 2005 spring	1 4.71 1 4.14	1 11.01 1 7.77	1 13.03 1 12.37	1 27.44 1 30.68	1 21.72 1 24.59	1 8.64 1 4.30	1 0.27 1 0.75	1 4.73 1 5.15
	Idesia polycarpa	(fallen flower, litter)	2005 spring	2 3.49 3.12-3.86	2 17.70 17.45-17.96	2 13.58 13.57-13.60	2 27.43 25.76-29.10	2 18.33 15.60-21.06	2 3.35 2.90-3.81	2 0.10 0.09-0.10	2 10.84 10.72
	Anodendron affine Elaeocarpus svlvestris	(living flower, reproductive part) (fallen red leaf, litter)	2005 spring 2005 spring	1 3.06	1 12.47 1 5.57	1 9.91 1 13.50	1 19.54 1 18.35	1 18.10 1 12.69	1 3.44	1 1.20 1 0.87	1 12.31 1 4.50
	Lithocarpus edulis Litsea acuminata	(fallen brown leaf, litter) (fallen brown leaf, litter)	2005 spring 2005 spring	4 4.66 4.13-5.27 3 3.40 3.10-3.87	4 7.48 6.61-9.92 3 11.84 10.56-13.49	4 5.83 4.98-7.02 3 8.74 5.26-13.83	4 28.87 24.98-35.21 3 27.69 26.42-29.11	4 42.20 37.79-45.90 3 44.32 42.25-46.50	4 2.85 2.12-3.45 3 2.72 1.35-4.76	4 0.86 0.68-1.05 2 0.20 0.15-0.25	4 4.02 3.06- 3 4.48 3.78-
	Machilus thunbergii	(fallen brown leaf, litter)	2005 spring	3 4.02 2.94-4.62	2 6.44 4.48-7.94	2 10.02 7.54-14.23	2 30.12 25.92-34.49	2 41.44 36.64-45.31	2 2.80 2.09-4.03	2 0.72 0.50-1.08	2 4.86 4.23
	Rhododendron tashiroi Myrsine seguinii	(living new leaf, browse) (living new leaf, browse)	2005 spring 2005 spring	1 5.22 1 3.63	1 11.18 1 8.52	1 4.88 1 11.09	1 39.79 1 26.50	1 28.68 1 29.30	1 5.58 1 7.92	1 1.32 1 1.02	1 6.34 1 6.35
	Ardisia sieboldii	(living mature leaf, browse)	2005 spring	2 3.50 2.76-4.23	2 11.61 11.53-11.69	2 11.08 7.78-14.37	2 22.47 18.71-26.24	2 31.98 26.99-36.98	2 4.88 4.82-4.93	2 1.46 1.43-1.49	2 9.75 9.50
	Litsea acuminata Litsea acuminata	(living mature leaf, browse) (living new leaf, browse)	2005 spring 2005 spring	2 3.48 3.08-3.88 1 3.43	2 10.82 10.53-11.11 1 16.04	2 9.92 8.14-11.69 1 3.16	2 37.00 36.66-37.34 1 43.54	2 31.39 29.98-32.80 1 33.54	2 4.28 3.26-5.31 1 2.41	2 1.63 1.10-2.15 1 0.81	2 5.03 4.62 1 7.14
	Anodendron affine Symplocos lucida	(living mature leaf, browse) (living mature leaf, browse)	2005 spring 2005 spring	1 2.58 2 2.36 2.02-2.70	1 14.10 2 5.62 4.66-6.57	1 3.93 2 9.33 6.20-12.47	1 36.40 2 32.94 26.78-39.10	1 20.19 2 10.91 9.82-12.00	1 3.47 2 0.97 0.78-1.17	1 0.96 2 0.05 0.02-0.08	1 10.16 2 12.09 9.63
	Camellia japonica	(living mature leaf, browse)	2005 spring	3 1.67 1.63-1.74	3 7.13 6.89-7.50	3 16.63 12.88-21.10	3 33.92 32.85-35.08	3 15.50 15.05-16.24	3 7.19 6.08-9.06	3 0.65 0.46-0.93	3 6.76 5.91
	Eurya japonica Camellia sasangua	(living mature leaf, browse) (living mature leaf, browse)	2005 spring 2005 spring	4 1.53 1.22-1.72 2 1.39 1.30-1.47	4 7.55 6.90-8.24 2 9.65 9.07-10.24	4 15.64 12.10-19.35 2 18.29 16.30-20.27	4 34.50 29.52-41.24 2 36.70 34.29-39.11	4 11.15 9.24-13.14 2 12.55 12.24-12.86	4 4.25 2.28-5.17 2 3.98 2.95-5.01	4 0.48 0.31-0.64 2 0.28 0.26-0.29	4 8.02 7.28 2 6.72 6.70
	Psychotria serpens	(living mature leaf, browse)	2005 spring	2 0.83 0.79-0.85	2 9.22 9.22-9.22	2 19.38 16.43-22.32	2 46.59 43.65-49.53	2 15.48 13.92-17.03	1 4.91	2 0.78 0.75-0.81	2 12.67 12.0
	Arachniodes aristata	(living mature leaf, fern)	2005 spring	5 0.72 0.53-0.95	5 11.07 9.74-11.95	5 21.76 13.21-28.54	5 35.65 31.27-39.26	5 23.86 21.64-27.75	5 10.13 5.82-14.11	5 4.78 3.18-6.54	5 4.79 4.36
	Ficus erecta Pteris wallichiana	(fallen fruit, litter) (living mature leaf, fern)	2005 summer 2005 summer	1 13.23 1 3.11	1 9.11 1 22.20	1 24.57 1 8.57	1 23.82 1 15.58	1 30.49 1 28.28	1 2.49 1 2.06	1 0.74 1 0.88	1 6.37 1 9.06
	Elaeocarpus japonicus Ficus erecta	(living bark) (living bark)	2005 summer 2005 summer	1 1.39 1 1.14	1 4.61 1 5.40	1 6.45 1 5.40	1 30.02 1 31.36	1 22.49 1 23.67	1 11.79 1 1.43	1 0.48 1 0.65	1 4.16 1 12.59
	Litsea acuminata	(fallen brown leaf, litter)	2005 summer	2 3.20 2.71-3.69	2 11.59 10.09-13.09	2 4.37 4.11-4.64	2 30.86 27.80-33.91	2 45.78 43.51-48.06	2 1.39 1.13-1.65	2 0.38 0.28-0.49	2 5.49 4.68
	Machilus thunbergii Litsea iaponica	(fallen brown leaf, litter) (fallen brown leaf, litter)	2005 summer 2005 summer	1 3.84 1 3.46	1 7.95 1 7.62	1 4.93 1 3.12	1 22.87 1 32.38	1 43.62 1 43.80	1 1.38 1 0.70	1 0.55 1 0.48	1 6.72 1 8.40
	Eurya japonica	(living mature leaf, browse)	2005 summer 2005 summer 2005 summer	1 1.73	1 8.27	1 8.84	1 24.36	1 15.53	1 5.29	1 0.74	1 8.78
	Arachniodes aristata Alocasia odora	(living mature leaf, monocot)	2005 summer	1 0.63 1 3.88	1 11.47 1 19.58	1 12.14 1 3.88	1 32.72 1 25.57	1 33.43 1 13.89	1 9.71 1 1.50	1 2.59 1 0.70	1 5.36 1 16.95
	Microlepia strigosa Dryopteris sordidipes	(living mature leaf, fern) (living mature leaf, fern)	2005 summer 2005 summer	1 2.18 1 1.05	1 18.39 1 12.83	1 7.48 1 14.76	1 27.75 1 31.58	1 26.54 1 30.61	1 1.22 1 5.00	1 0.69 1 1.34	1 12.34 1 6.40
	Neolitsea sericea	(fallen fruit by monkey, litter)	2005 autumn	1 39.25	2 8.40 8.34-8.46	2 11.97 9.70-14.24	2 14.63 13.61-15.65	2 13.88 12.20-15.57	2 2.37 2.06-2.68	2 0.48 0.43-0.54	2 3.28 3.26
	Zanthoxylum ailanthoides Rhus succedanea	(fallen immature fruit by monkey, litter) (fallen red leaf, litter)	2005 autumn 2005 autumn	2 21.01 20.48-21.53 1 6.89	2 8.27 8.22-8.31 1 3.78	2 5.50 4.94-6.05 1 12.98	2 14.39 14.37-14.42 1 22.77	2 33.20 30.05-36.35 1 9.99	2 1.83 1.26-2.39 1 27.61	2 0.55 0.52-0.58 1 0.90	2 5.99 5.30 1 5.80
	Neolitsea sericea	(fallen green leaf by monkey, litter)	2005 autumn	2 5.83 5.40-6.26	2 10.95 9.29-12.60	2 17.61 15.94-19.28	2 26.88 21.12-32.65	2 21.45 19.16-23.75	2 5.99 5.21-6.77	2 1.07 0.80-1.33	2 4.66 4.45
	Quercus salicina Neolitsea sericea	(fallen seed, litter) (fallen flower, litter)	2005 autumn 2005 autumn	1 3.77 1 2.46	1 3.07 1 14.48	1 8.98 1 16.90	1 57.77 1 20.84	1 2.12 1 25.34	1 14.38 1 11.32	1 0.57 1 1.81	1 2.09 1 4.71
	Neolitsea sericea	(fallen brown leaf, litter)	2005 autumn	2 5.92 5.73-6.11 2 4.57 4.26-4.88	2 7.29 6.88-7.70 2 6.71 6.30-7.12	2 7.72 6.76-8.67 2 5.27 3.77-6.78	2 53.29 51.91-54.67 2 28.81 26.43-31.18	2 37.35 32.70-41.99 2 41.62 38.81-44.43	2 2.94 2.62-3.27 2 2.25 1.33-3.18	2 0.45 0.43-0.48 2 0.77 0.39-1.15	2 4.83 4.47
	Lithocarpus edulis Quercus salicina	(fallen brown leaf, litter) (fallen brown leaf, litter)	2005 autumn 2005 autumn	1 4.02	1 12.92	1 9.61	1 38.99	1 31.43	1 4.33	1 1.21	1 5.23
	Litsea acuminata Ardisia sieboldii	(fallen brown leaf, litter) (living mature leaf, browse)	2005 autumn 2005 autumn	3 3.34 3.03-3.65 1 3.51	3 9.67 9.42-10.07 1 13.62	3 5.11 4.32-6.59 1 7.10	3 31.20 29.99-32.84 1 18.19	3 42.43 40.93-43.90 1 31.12	3 1.59 1.12-2.46 1 5.44	3 0.45 0.27-0.74 1 1.11	3 4.31 4.04 1 10.34
	Dicranopteris linearis	(living mature leaf, fern)	2005 autumn	1 2.06	1 11.16	1 16.00	1 29.90	1 21.20	1 8.47	1 1.94	1 7.96
	Myrica rubra Eurya japonica	(living mature leaf, browse) (living mature leaf, browse)	2005 autumn 2005 autumn	1 1.93 2 1.52 1.18-1.86	1 12.52 2 9.34 9.30-9.38	1 10.63 2 11.49 10.43-12.55	1 25.68 2 27.65 22.52-32.78	1 30.68 2 12.03 11.18-12.89	1 11.46 2 4.57 3.08-6.07	1 1.72 2 0.57 0.56-0.58	1 4.24 2 8.65 8.44
	Camellia japonica	(living mature leaf, browse)	2005 autumn	1 1.49 1 1.34	1 8.22 1 9.92	1 9.88 1 18.60	1 30.73 1 22.70	1 15.21 1 13.94	1 8.76 1 6.12	1 0.85 1 0.76	1 6.35 1 6.96
	Camellia sasanqua Nephrolepis cordifolia	(living mature leaf, browse) (living mature leaf, fern)	2005 autumn 2005 autumn	1 1.23	1 10.49	1 10.52	1 25.04	1 24.91	1 9.10	1 2.13	1 10.89
	Psychotria serpens Arachniodes aristata	(living mature leaf, browse) (living mature leaf, fern)	2005 autumn 2005 autumn	2 0.60 0.55-0.65 1 0.82	2 8.41 8.15-8.66 1 11.42	2 19.06 12.10-26.01 1 16.19	2 32.66 30.91-34.41 1 46.53	2 14.26 14.01-14.50 1 24.15	2 7.18 5.53-8.83 1 11.39	2 1.05 0.94-1.15 1 3.33	2 10.69 10.6 1 5.45
	Ctenitis subglandulosa	(living mature leaf, fern)	2005 autumn	1 1.08	1 13.95	1 15.49	1 23.79	1 23.07	1 11.37	1 2.56	1 8.90
	Rhus succedanea	(fallen seed, litter)	2006 winter	2 20.96 18.89-23.03	3 2.63 2.41-2.80	3 2.43 1.65-3.57	3 28.73 21.37-34.81	3 18.06 16.21-20.17	3 2.70 1.48-4.32	3 0.20 0.08-0.43	3 1.03 0.85
	Rhaphiolepis indica Elaeocarpus sylvestris	(fallen red leaf, litter) (fallen red leaf, litter)	2006 winter 2006 winter	1 8.62 1 2.60	1 3.28 1 5.41	1 14.45 1 15.67	1 20.45 1 20.33	1 17.54 1 14.90	1 9.49 1 20.28	1 1.54 1 0.71	1 5.32 1 4.90
	Cinnamomum camphora Camellia japonica	(fallen bract, litter) (fallen flower, litter)	2006 winter 2006 winter	1 2.41 1 1.17	2 12.94 12.59-13.29 1 6.23	2 17.94 17.65-18.24 1 32.32	2 27.66 26.87-28.46 1 23.97	2 16.39 15.81-16.97 1 13.68	2 9.14 8.82-9.46 1 10.82	2 1.63 1.47-1.78 1 1.21	2 6.99 6.01 1 4.33
	UI	(rotten bark, litter)	2006 winter	1 4.26	1 6.12	1 3.06	1 15.47	1 49.61	1 3.07	1 0.77	1 4.61
	Lithocarpus edulis Litsea acuminata	(fallen brown leaf, litter) (fallen brown leaf, litter)	2006 winter 2006 winter	5 4.19 3.35-4.95 2 3.57 3.56-3.57	5 6.93 6.45-7.25 2 9.64 9.17-10.11	5 5.41 4.06-7.70 2 5.92 5.27-6.58	5 23.01 21.94-24.11 2 21.96 21.70-22.21	5 44.67 43.53-45.51 2 44.64 43.75-45.52	4 1.98 1.37-2.39 2 2.02 1.69-2.34	5 0.81 0.51-1.30 2 0.67 0.55-0.79	5 4.54 3.92 2 5.83 5.10
	Quercus salicina	(fallen brown leaf, litter)	2006 winter	1 4.12	1 12.71	1 6.42	1 24.56	1 34.69	1 2.57	1 0.73	1 7.11
	Cinnamomum camphora Machilus thunbergii	(fallen brown leaf, litter) (fallen brown leaf, litter)	2006 winter 2006 winter	2 5.12 5.01-5.23 1 3.71	2 8.06 7.92-8.20 1 8.53	2 9.59 7.63-11.55 1 6.51	2 34.55 34.34-34.76 1 28.06	2 28.28 25.27-31.30 1 40.93	2 4.20 2.88-5.52 1 2.31	2 1.34 1.16-1.52 1 0.96	2 4.99 4.90 1 5.57
	Ardisia sieboldii		2006 winter	1 3.75	1 11.43	1 15.86	1 14.10 1 30.26	1 23.88	1 10.00	1 1.89	1 10.26
	T	(living mature leaf, browse)									
	Ternstroemia gymnanthera Arisaema serratum	(living mature leaf, browse) (living mature leaf, browse) (living mature leaf, monocot)	2006 winter 2006 winter	1 3.54 1 3.43	1 8.58 1 19.98	1 12.30 1 24.70	1 30.18	1 13.73 1 6.27	1 8.08 1 1.35	1 0.62 1 0.75	1 6.96 1 7.39
	Ternstroemia gymnanthera Arisaema serratum Myrsine seguinii	(living mature leaf, browse) (living mature leaf, browse) (living mature leaf, monocot) (living mature leaf, browse)	2006 winter 2006 winter 2006 winter	1 3.54 1 3.43 1 2.95	1 8.58 1 19.98 1 7.16	1 12.30 1 24.70 1 17.98	1 30.18 1 16.79	1 6.27 1 21.94	1 1.35 1 7.63	1 0.62 1 0.75 1 1.50	1 6.96 1 7.39 1 5.47
	Ternstroemia gymnanthera Arisaema serratum	(living mature leaf, browse) (living mature leaf, browse) (living mature leaf, monocot)	2006 winter 2006 winter 2006 winter 2006 winter 2006 winter	1 3.54 1 3.43 1 2.95 3 1.55 1.35-1.66 - 1.39 *3	1 8.58 1 19.98	1 12.30 1 24.70 1 17.98 3 17.35 14.95-20.15 1 14.71	1 30.18	1 6.27 1 21.94 2 11.86 11.29-12.42 1 13.52	1 1.35 1 7.63 3 4.94 4.66-5.44 1 6.14	1 0.62 1 0.75 1 1.50 3 0.48 0.27-0.82 1 0.64	1 6.96 1 7.39 1 5.47
	Temstroemia gymnanthera Arisaema serratum Myrsine seguinii Eurya japonica Camellia sasanqua Distylium racemosum	(living mature leaf, browse) (living mature leaf, browse) (living mature leaf, monocot) (living mature leaf, browse) (living mature leaf, browse) (living mature leaf, browse) (living mature leaf, browse)	2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter	1 3.54 1 3.43 1 2.95 3 1.55 1.35-1.66 - 1.39 *3 1 1.12	1 8.58 1 19.98 1 7.16 3 7.69 7.46-8.10 1 9.97 1 6.98	1 12.30 1 24.70 1 17.98 3 17.35 14.95–20.15 1 14.71 1 10.07	1 30.18 1 16.79 3 24.32 21.87-26.30 1 24.68 1 35.80	1 6.27 1 21.94 2 11.86 11.29-12.42 1 13.52 1 18.87	1 1.35 1 7.63 3 4.94 4.66-5.44 1 6.14 1 12.54	1 0.62 1 0.75 1 1.50 3 0.48 0.27-0.82 1 0.64 1 0.95	1 6.96 1 7.39 1 5.47 3 7.82 7.2 1 6.39 1 8.30
	Ternstroemia gymnanthera Arisaema serratum Myrsine seguinii Eurya japonica Camellia sasanqua Distylium racemosum Psychotria rubra Arachniodes aristata	(living mature leaf, browse) or (living mature leaf, browse) (living mature leaf, monocot) (living mature leaf, monocot) (living mature leaf, browse) (living mature leaf, fern)	2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter	1 3.54 1 3.43 1 2.95 3 1.55 1.35-1.66 - 1.39 *3 1 1.12 2 0.95 0.91-0.99 5 0.61 0.48-0.74	1 8.58 1 19.98 1 7.16 3 7.69 7.46-8.10 1 9.97 1 6.98 2 11.08 10.99-11.17 4 10.14 8.82-11.41	1 12.30 1 24.70 1 17.98 3 17.35 14.95-20.15 1 14.71 1 10.07 2 20.71 18.82-22.60 5 25.25 20.98-28.55	1 30.18 1 16.79 3 24.32 21.87-26.30 1 24.68 1 35.80 2 24.04 23.91-24.18 5 28.84 27.97-29.85	1 6.27 1 21.94 2 11.86 11.29-12.42 1 13.52 1 18.87 2 14.31 13.46-14.98 5 21.47 19.45-24.42	1 1.35 1 7.63 3 4.94 4.66-5.44 1 6.14 1 12.54 2 13.65 13.34-13.97 5 13.79 11.65-15.51	1 0.62 1 0.75 1 1.50 3 0.48 0.27-0.82 1 0.64 1 0.95 2 1.75 1.65-1.84 5 5.78 4.89-6.33	1 6.96 1 7.39 1 5.47 3 7.82 7.2 1 6.39 1 8.30 2 9.21 9.01 5 5.03 4.51
	Temstroemia gymnanthera Arisaema serratum Myrsine seguinii Eurya japonica Camellia sasanqua Distylium racemosum Psychotria rubra	(living mature leaf, browse) (living mature leaf, browse) (living mature leaf, monocot) (living mature leaf, browse)	2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter 2006 winter	1 3.54 1 3.43 1 2.95 3 1.55 1.35-1.66 - 1.39 *3 1 1.12 2 0.95 0.91-0.99	1 8.58 1 19.98 1 7.16 3 7.69 7.46-8.10 1 9.97 1 6.98 2 11.08 10.99-11.17	1 12.30 1 24.70 1 17.98 3 17.35 14.95-20.15 1 14.71 1 10.07 2 20.71 18.82-22.60	1 30.18 1 16.79 3 24.32 21.87-26.30 1 24.68 1 35.80 2 24.04 23.91-24.18	1 6.27 1 21.94 2 11.86 11.29-12.42 1 13.52 1 18.87 2 14.31 13.46-14.98	1 1.35 1 7.63 3 4.94 4.66-5.44 1 6.14 1 12.54 2 13.65 13.34-13.97	1 0.62 1 0.75 1 1.50 3 0.48 0.27-0.82 1 0.64 1 0.95 2 1.75 1.65-1.84	1 6.96 1 7.39 1 5.47 3 7.82 7.2 1 6.39 1 8.30 2 9.21 9.01 5 5.03 4.51
	Ternstroemia gymnanthera Arisaema serratum Myrsine seguinii Eurya japonica Camellia sasanqua Distylium racemosum Psychotria rubra Arachniodes aristata Psychotria serpens Dryopteris sordidipes	(fiving mature leaf, browse) (fiving mature leaf, from) (from leaf, from) (from leaf, leaf, from) (from leaf, leaf, from)	2006 winter 2006 winter	1 3.54 1 3.43 1 2.95 3 1.55 1.35-1.66 - 1.39 *3 1 1.12 2 0.95 0.91-0.99 5 0.61 0.48-0.74 2 0.60 0.55-0.65 1 2.95	1 8.58 1 19.98 1 7.16 3 7.69 7.46-8.10 1 9.97 1 6.98 2 11.08 10.99-11.17 4 10.14 8.82-11.41 2 8.41 8.15-8.66 1 10.53	1 12.30 1 24.70 1 17.98 3 17.35 14.95-20.15 1 14.71 1 10.07 2 20.71 18.82-22.60 5 25.25 20.98-28.55 2 19.06 12.10-26.01 1 14.83 1 18.24	1 30.18 1 16.79 3 24.32 21.87-26.30 1 24.68 1 35.80 2 24.04 23.91-24.18 5 28.84 27.97-29.85 2 32.66 30.91-34.41 1 40.83 1 23.45	1 6.27 1 21.94 2 11.86 11.29-12.42 1 13.52 1 18.87 2 14.31 13.46-14.98 5 21.47 19.45-24.42 2 14.26 14.01-14.50 1 15.57	1 1.35 1 7.63 3 4.94 4.66-5.44 1 6.14 1 12.54 2 13.65 13.34-13.97 5 13.79 11.65-15.51 2 7.18 5.53-8.83 1 10.58	1 0.62 1 0.75 1 1.50 3 0.48 0.27-0.82 1 0.64 1 0.95 2 1.75 1.65-1.84 5 5.78 4.89-6.33 2 1.05 0.94-1.15 1 1.81	1 6.96 1 7.39 1 5.47 3 7.82 7.2 1 6.39 1 8.30 2 9.21 9.0 5 5.03 4.5 2 10.69 10.1 1 5.97
	Ternstroemia gymnanthera Arisaema serratum Myrsine seguinii Eurya japonica Camellio sasnqua Distylium racemosum Psychotria rubra Arachniodes aristata Psychotria serpens Dryopteris sordidipes	(living mature leaf, browse) (living mature leaf, form)	2006 winter 2006 spring 2006 spring	1 3.54 1 2.95 3 1.55 1.35-1.66 - 1.39 *0 1 1.12 2 0.95 0.91-0.99 5 0.61 0.48-0.74 2 0.60 0.55-0.65 1 2.95 1 3.42 2 3.09 2.94-3.24 2 175 2.41-3.09	1 8.58 1 19.98 1 7.16 3 7.69 7.46-8.10 1 9.97 1 6.98 2 11.08 10.99-11.17 4 10.14 8.82-11.41 2 8.41 8.15-8.66 1 10.53	1 12.30 1 24.70 1 17.98 3 17.35 14.95-20.15 1 14.71 1 10.07 2 20.71 18.82-22.60 5 25.25 20.98-28.55 2 19.06 12.10-26.01 1 14.83 1 18.24 2 8.62 8.04-9.21	1 30.18 1 16.79 3 24.32 21.87-26.30 1 24.68 1 35.80 2 24.04 23.91-24.18 5 28.84 27.97-29.85 2 32.66 30.91-34.41 40.83	1 6.27 1 21.94 2 11.86 11.29–12.42 1 13.52 1 18.87 2 14.31 13.46–14.98 5 21.47 19.45–24.42 2 14.26 14.01–14.50 1 15.57 1 12.59 2 19.98 19.53–20.43	1 1.35 1 7.63 3 4.94 4.66-5.44 1 6.14 1 12.54 2 13.65 13.34-13.97 5 13.79 11.65-15.51 2 7.18 5.53-8.83 1 10.58 1 9.24 2 21.07 18.14-23.99 2 6.94 4.87-9.01	1 0.62 1 0.75 1 1.50 3 0.48 0.27-0.82 1 0.64 1 0.95 2 1.75 1.65-1.84 5 5.78 4.89-6.33 2 1.05 0.94-1.15 1 1.81 1 1.23 2 0.93 0.77-1.09	1 6.96 1 7.39 1 5.47 3 7.82 7.2 1 6.39 1 8.30 2 9.21 9.0 5 5.03 4.5 2 10.69 10. 1 5.97 1 6.47 2 8.68 7.7
	Ternstroemia gymnanthera Arisaema serratum Myrsine seguinii Eurya japonica Camellia sasanqua Distylium racemosum Psychotria rubra Arachniodes aristata Psychotria serpens Dryopteris sordidipes Phaphiolepis indica Rhus succedanea Melia azedarach Eleoocarpus sylvestris	(living mature leaf, browse) (living mature leaf, from) (living mature leaf, from) (living mature leaf, from) (ridlen graun leaf, from) (fallen graun leaf, fitter) (fallen yellow leaf, litter) (fallen yellow leaf, litter)	2006 winter 2006 spring 2006 spring 2006 spring 2006 spring 2006 spring	1 3.54 1 2.95 3 1.55 1.35-1.66 - 1.39 *3 1 1.55 1.35-1.66 - 1.39 *3 2 1 12 2 1 12 2 0.95 0.91-0.99 5 0.61 0.48-0.74 2 0.60 0.55-0.65 1 2.95 1 3.42 2 3.09 2.94-3.24 2 2.75 2.41-3.09 1 2.51	1 8.58 1 7.16 3 7.69 7.46=8.10 1 9.97 1 6.98 2 11.08 10.99=11.17 4 10.14 8.82=11.41 2 8.41 8.15=8.66 1 10.53 1 6.41 8.00=10.90 2 16.33 15.70=16.96 1 4.91	1 12.30 1 24.70 1 17.98 1 17.98 1 17.95 1 14.71 1 10.07 2 20.71 18.82-22.60 5 25.25 20.98-28.55 2 19.06 12.10-26.01 1 14.83 1 18.24 8.04-9.21 2 8.62 8.04-9.21 2 8.62 8.04-9.21 1 10.79	1 30.18 1 16.79 3 24.32 21.87-26.30 1 24.68 1 35.80 2 24.04 23.91-24.18 5 28.84 27.97-29.85 2 32.66 30.91-34.41 1 40.83 1 23.45 2 23.61 19.42-27.80 2 26.11 25.22-27.00 1 21.36	1 627 2 11,94 2 11,86 11,29-12,42 1 13,52 1 18,87 2 14,31 13,46-14,98 5 21,47 19,45-24,42 2 14,26 14,01-14,50 1 557 1 12,59 2 19,98 19,53-20,43 2 26,93 25,72-28,13 1 12,39	1 1.35 1 7.63 3 494 4.66-5.44 1 6.14 1 12.54 2 13.65 13.34-13.97 5 13.79 11.65-15.51 2 7.18 5.53-8.83 1 10.58 1 9.24 2 21.07 18.14-23.99 2 6.94 4.87-9.01 1 20.29	1 0.62 1 0.75 1 1.50 3 0.48 0.27-0.82 1 0.64 1 0.95 2 1.75 1.65-1.84 5 5.78 4.89-6.33 2 1.05 0.94-1.15 1 1.21 2 0.93 0.77-1.09 2 1.14 0.87-1.41	1 6.96 1 7.39 1 5.47 3 7.82 7.2 1 6.39 1 8.30 2 9.21 9.0 5 5.03 4.5 2 10.69 10. 1 5.97 1 6.47 2 8.68 7.7 2 9.33 8.9 1 0.30
	Ternstroenia gymanthera Arisaema serrstonia gymanthera Myraina seguinii Eurya Japonica Camellia esaengua Distylium racemosum Psychotria rubra Arachinodes artistata Arachinodes artistata D'ycoptaria sordidipes Plaus succedanea Melia acedarach Reseavante Selescaemus sylvestris Myrica rubra Castanopsis sieboldii Castanopsis sieboldii Castanopsis sieboldii	(living mature leaf, browse) (living mature leaf, from)	2006 winter 2008 spring	1 3.54 1 2.95 3 1.55 1.35-1.66 - 1.39 *3 1.55 1.35-1.69 - 1.39 *3 5 0.61 0.48-0.74 2 0.60 0.55-0.65 1 2.95 1 3.42 2 3.09 2.94-3.24 2 2.75 2.41-3.09 1 2.51 **2 2.47 1.85-3.08 1 1.63	1 8.58 1 7.16 1 19.98 1 7.16 1 9.97 1 6.98 2 11.08 10.99-11.17 4 10.14 8.22-11.41 2 8.41 8.15-8.66 1 10.53 1 6.41 2 9.45 8.00-10.90 2 16.33 15.70-16.96 1 4.91 1 8.49 1 11.67	1 12.30 1 124.70 1 17.98 1 17.98 1 14.71 1 10.07 2 20.71 18.82-22.60 5 25.25 20.88-28.55 2 19.06 12.10-28.01 1 18.25 2 8.82 8.04-9.21 2 8.82 8.04-9.21 1 10.73 1 10.73 1 17.39 1 17.39	1 30.18 1 6.79 2 4.43; 21.87-26.30 1 24.68 1 55.80 1 55.80 2 24.04 22.91-24.18 5 28.84 27.97-28.85 2 32.66 30.91-34.41 1 40.83 1 23.61 1 24.27-27.00 2 26.11 25.22-27.00 1 21.36 1 18.80 1 20.27	1 6.27 2 11.86 11.29-12.42 1 13.52 1 18.87 2 14.31 13.46-14.98 5 21.47 19.45-24.42 1 12.57 1 15.57 1 12.53 2 19.98 19.53-20.43 2 26.93 25.72-28.13 1 12.33 1 23.30 1 20.52	1 1.35 1 7.63 3 4.94 4.66-5.44 1 12.54 2 13.65 13.34-13.97 5 13.79 11.65-15.51 2 7.18 5.53-8.83 1 10.58 1 9.24 18.14-23.99 2 6.94 4.87-9.01 1 20.29 1 5.29 1 11.38	1 0.62 1 0.75 1 1.50 3 0.48 0.27-0.82 1 0.64 1 0.95 2 1.75 1.65-1.84 5 5.78 4.89-6.33 2 1.05 0.94-1.15 1 1.81 1 1.23 2 0.93 0.77-1.09 2 1.14 0.87-1.41 1 0.54 1 1.03 1 0.65	1 6.96 1 7.39 1 5.47 3 7.82 7.2 1 6.39 1 8.30 2 9.21 9.0 5 5.03 4.5 2 10.69 10.1 1 5.97 1 6.47 2 8.68 7.7 2 9.33 8.9 1 0.30 1 3.21 1 4.08
	Temstroenia gymanthera Arisaema serratum Myraine aeguini Eurya japonina Gumella easangua Comella easangua Psychotri andra Arachniodes aristata Psychotria aristata psychotria serdidjess Mhus succedanea Psychotria estratura dica Musica di Paphiologis indica Rhus succedanea Elanocarpus sylvestris Myrica rubra Castanopsis sieboldii Seehmaria holoserica	(living mature leaf, browse) (living mature leaf, browse) (living mature leaf, browse) (living mature leaf, monocot) (living mature leaf, browse)	2006 winter 2008 spring	1 3.54 1 2.95 3 1.55 1.35-1.66 - 1.39 *3 1.55 1.35-1.69 - 1.39 *3 5 0.61 0.48-0.74 2 0.60 0.55-0.65 1 2.95 1 3.42 2 3.09 2.94-3.24 2 2.75 2.41-3.09 1 2.51 **2 2.47 1.85-3.08 1 1.63	1 8.58 1 7.16 2 7.16 1 9.97 1 6.98 2 11.08 10.99-11.17 1 10.18 8.22-11.41 2 8.41 8.15-8.66 1 10.53 1 6.41 2 9.45 8.00-10.90 2 16.33 15.70-16.96 1 4.91 1 8.49	1 12.30 1 24.70 1 17.98 1 17.98 1 17.98 1 14.95-20.15 1 14.71 2 2 00.11 18.82-22.60 5 25.25 20.89-28.55 2 19.06 12.10-28.01 1 14.83 1 18.24 2 8.62 20.49-2.1 2 8.62 80.49-2.1 1 17.39 1 13.67 1 16.64	1 30.18 1 6.79 3 24.32 21.87-26.30 1 24.32 21.87-26.30 1 35.80 1 35.80 2 24.04 23.91-24.18 5 28.84 27.97-29.85 2 32.68 30.91-34.41 1 40.83 1 23.45 2 23.61 19.42-27.80 2 26.11 12.522-27.00 1 21.36 1 18.80 1 20.27 1 19.03	1 6.27 2 11.94 11.29-12.42 1 11.86 11.29-12.42 1 18.52 1 18.87 2 14.31 13.46-14.98 5 21.47 19.45-24.42 2 14.26 14.01-14.50 1 12.59 2 19.98 19.53-20.43 2 26.93 25.72-28.13 1 12.33	1 1.35 1 7.63 3 4.94 4.66-5.44 1 6.14 1 2.54 2 13.65 13.34-13.97 5 13.79 11.65-15.51 2 7.18 5.53-8.83 1 9.24 2 2 1.07 18.14-23.99 2 6.94 4.87-9.01 1 20.29	1 0.62 1 0.75 1 1.50 3 0.48 0.27-0.82 1 0.64 1 0.95 2 1.75 1.65-1.84 5 5.78 4.89-6.33 2 1.05 0.94-1.15 1 1.23 2 0.93 0.77-1.09 2 1.14 0.67-1.41 1 0.54	1 6.96 1 7.39 1 5.47 3 7.82 7.2 1 6.39 1 8.30 2 9.21 9.00 5 5.03 4.5 2 10.69 10.1 1 5.97 1 6.47 2 8.68 7.7 2 9.33 8.9 1 0.30 1 3.21 1 4.08 1 16.43
	Temstroenia gymanthera Arisaema serratum Myraine aeguini Eurya japonica Camellia assanqua Distylium racemosum Distylium racemosum Arachniodes aristata Psychotria serpens Dryopteria sordidjess Phaphiologis indica Rhus succedana Melia azedrach Eleocorpius sylvestris Myraine Servando de Servando	(living mature leaf, browse) (living mature leaf, browse) (living mature leaf, monocot) (living mature leaf, monocot) (living mature leaf, browse) (living mature leaf, from) (fallen frome leaf, fitter) (fallen fromer, litter) (fallen fromer leaf, fitter) (fallen fromer) (fallen fromer) (fallen fromer) (living mature leaf, fitter) (fallen fromer) (fallen fromer) (living mature leaf, fitter) (fallen fromer)	2006 winter 2008 pring 2008 spring	1 354 1 343 1 295 1 397	1 8.58 1 19.98 1 7.16 1 19.98 1 7.16 1 8.98 1 8.98 1 6.88 1 6.88 1 6.88 1 6.88 1 10.53 1 6.81 1 10.53 1 6.41 1 10.53 1 6.41 1 10.53 1 6.41 1 10.53 1 6.41 1 10.53 1 1 4.91 1 1 1.67 1 1 1.67 1 1 1.67 1 1 1 30.31 1 30.31 1 34.9 1 34.9	1 12.30 1 24.70 1 17.98 1 17.98 1 14.95-20.15 1 14.71 1 10.71 1 10.71 1 10.71 1 10.71 1 10.71 1 10.71 1 10.71 1 10.71 1 10.71 1 14.83 1 1 18.24 2 8.62 8.04-9.21 2 8.62 8.04-9.21 2 8.62 8.04-9.21 1 10.73 1 10.73 1 10.73 1 10.73 1 1 10.73 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 30.18 1 6.79 3 24.32 21.87-26.30 1 24.68 1 35.80 1 5.80 2 24.04 23.91-24.18 5 28.84 27.97-29.85 2 32.66 30.91-34.41 1 40.83 2 2 26.61 30.91-34.19 2 2 26.11 25.22-27.00 1 2 21.85 2 2 26.11 25.22-27.00 1 1 18.80 1 20.27 1 1 91.03 1 22.22 2 30.78	1 6.27 1 21.94 2 11.86 11.29-12.42 1 13.52 1 18.87 1 18.87 1 18.87 2 14.31 13.46-14.98 5 21.47 18.45-24.42 2 14.28 14.01-14.50 1 15.57 1 15.57 2 19.98 19.53-20.43 2 26.93 25.72-28.13 1 22.33 1 23.30 1 20.52 1 14.81 1 12.66 1 30.68	1 1.35 1 7.63 3 4.94 4.66 - 5.44 1 12.54 2 13.65 13.34 - 13.97 5 13.79 11.65 - 15.51 2 7.18 5.73 - 8.3 1 10.58 1 9.24 2 10.7 18.14 - 23.99 2 6.94 4.87 - 9.01 1 20.29 1 1.38 1 1.38 1 1.08 1 1.08 1 1.08 1 1.08 1 1.08 1 1.08	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6.96 1 7.39 1 5.47 3 7.82 7.2 1 6.39 1 8.30 2 9.21 9.0 5 5.03 4.5 2 10.69 10. 1 5.97 2 8.68 7.7 2 9.33 8.9 1 0.30 1 3.21 1 4.08 1 16.43 1 7.02 1 8.55
	Ternstroenia gymanthera Arisaema serratum Myraina seguini Eurya Japonica Camellia sasanqua Eurya Japonica Camellia sasanqua Elisyllum racamosum Psychotria rubra Psychotria racha serratum Psychotria serratum Psychotria serratum Psychotria serratum Psychotria serratum Psychotria serratum Psychotria serratum Melia serdarach Melia serdarach Melia serdarach Melia serdarach Myrica rubra Castanopsis sieboldii Boehmeria holoserica Eurya emarginia sieboldii Guercus salicina Litesa acuminata	(living mature leaf, browse) (fiving mature leaf, browse) (fiving mature leaf, browse) (fiving mature leaf, monocot) (fiving mature leaf, monocot) (fiving mature leaf, browse) (fiving mature leaf, fiven) (fallen green leaf, fitter) (fallen fiving mature leaf, fitter) (fallen frowne) (fallen frowne) (fallen frowne) (fallen frowne) (fallen frowne) (fallen fitter)	2006 winter 2006 spring	1 354 1 343 1 295 1 39-166 - 139-9 2 0 39 1048-0.74 29 5 1 295 1 342 2 2.75 2.41-3.09 1 1.66	1 8.58 1 19.98 1 7.16 1 19.98 1 7.16 1 9.97 1 6.98 2 11.00 (0.99-11.17 1 10.4 (8.22-11.41 2 8.41 8.15-8.66 1 10.53 1 6.41 2 9.45 8.00-10.90 2 16.33 15.70-16.96 1 4.91 1 8.49 1 1 8.92 1 8.92 1 8.92 1 8.92 1 8.93 1 8.93 1 8.93 1 8.93 1 8.93	1 12.30 1 124.70 1 17.98 1 17.98 14.95-20.15 1 14.71 1 10.07 1 10.07 2 20.08-28.55 2 19.06 12.10-28.01 1 18.24 2 8.62 20.4-9.21 2 8.62 20.4-9.21 2 8.62 20.4-9.1 1 10.79 1 17.39 1 18.44 1 16.44 4 11.44 1 16.44 1 16.44 1 16.44 1 16.44 1 16.44	1 30.18 1 6.79 2 44.92 21.87-26.30 1 24.68 1 35.80 2 44.04 23.91-24.18 5 28.84 27.97-29.85 2 32.66 30.91-34.41 1 40.83 1 23.45 2 33.61 19.42-27.80 2 26.11 25.22-27.00 1 21.36 1 82.80 1 18.80 1 18.80 1 22.22 2 33.61 19.42-27.80 2 18.80 1 2 3.80 1 30.78 1 30.78 1 30.78 1 30.78 1 30.78 1 30.78 1 35.88	1 6.27 2 11.86 11.29-12.42 1 11.85 11.29-12.42 1 18.87 1 18.87 2 14.31 13.46-14.98 5 21.47 19.45-24.42 1 14.25 14.01-14.50 1 15.57 2 19.98 19.53-20.43 2 26.93 25.72-28.13 1 23.03 1 23.03 1 23.03 1 23.03 1 23.03 1 23.08 1 24.08 1 25.08 1 24.08 1 25.08 1	1 1.35 1 7.63 3 4.94 4.66-5.44 1 12.54 1 13.57 9 11.65-15.51 2 7.18 5.53-8.33 1 1058 1 224 2 10.07 18.14-23.99 2 6.94 4.87-9.01 1 20.9 1 1.38 1 10.88 1 10.88 1 10.88 1 10.88 1 10.88 1 10.88 1 10.88 1 10.88 1 10.88 1 13.60 1 1.71	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6.96 1 7.39 1 5.47 3 7.82 7.2 1 6.39 2 9.21 9.01 5 5.03 4.5; 2 10.69 10. 1 5.97 1 6.47 2 9.33 8.9 1 0.30 1 3.21 1 4.08 1 16.43 1 7.02 1 8.55 1 7.53 1 7.53 1 7.53 1 4.65
	Ternstroenia gymanthera Arisaema serratum Myraine asguini Eurya japonica Camelia sasanqua Distylium racemosum Psychotria rubra Arachniodes aristata Psychotria subratia aristata Psychotria subratia Psychotria subratidges Rhaphiolepis indica Rhus succedanea Melia zaedarach Ebeccarpus sylvestris Myrica rubra Myrica rubra discontinua di Castimura holosofica Eurya emarginata Ardiasi sieboldii Guerra Salinia Litsea acuminata Litsea acuminata Litsea acuminata Litsea acuminata Disconapoteria linearis	(living mature leaf, browse) (living mature leaf, fren) (living mature leaf, fren) (living mature leaf, fren) (fallen green leaf, litter) (fallen green leaf, litter) (fallen green leaf, litter) (fallen fruit, litter)	2006 winter 2008 winter 2008 winter 2008 spring	1 354 1 343 1 295 1 361 1 363 1 295 1 361 1 363 1 1 295 1 361 1 361 1 295 1 361 1 36	1 8.58 1 19.98 1 7.16 1 19.98 1 7.16 1 19.98 1 7.16 1 19.97 1 6.58 2 11.08 10.99-11.17 1 10.18 10.99-11.17 2 8.41 8.15-8.66 1 10.53 1 6.41 2 9.44 8.00-10.90 1 4.91 1 10.53 1 8.49 1 11.65 1 1 8.49 1 1 1.65 1 1 8.49 1 1 1.65 1 1 8.49 1 1 1.65 1 1 8.49 1 1 1.65 1 1 8.49 1 1 1.65 1 1 8.49 1 1 1.65 1 1 8.49 1 1 1.65 1 1 8.49 1 1 1.65 1 1 8.49 1 1 1.65 1 1 8.49 1 1 8.92 1 9.80 1 8.52	1 12.30 1 24.70 1 17.98 1 17.98 1 17.98 1 14.71 1 10.07 2 20.71 18.82-22.60 5 25.25 20.98-28.55 2 19.06 12.10-26.01 1 14.83 1 18.24 2 8.62 8.04-9.21 2 8.22 1.97-6.47 1 10.79 1 13.67 1 16.74 1 17.39 1 18.67 1 1 6.67 1 1 6.67	1 30.18 1 6.79 3 24.32 21.87-26.30 1 24.68 1 35.80 2 24.04 23.91-24.18 5 28.04 27.91-29.35 2 26.61 30.91-34.41 1 40.63 2 23.61 19.42-27.80 2 26.11 25.22-27.00 1 21.08 1 20.027 1 19.03 1 20.027 1 19.03 1 20.027 1 20.027 1 20.03 1 20.03	1 6.27 1 21.94 2 11.86 11.29-12.42 1 18.87 1 18.87 1 18.87 1 18.47 1	1 1.35 1 7.63 3 4.94 4.66-5.44 1 12.54 2 13.68 13.24-13.97 5 13.19 11.65-13.87 1 10.18 5.5-8.83 1 10.58 5.5-8.83 2 2 1.07 18.14-23.99 2 2 1.07 18.14-23.99 2 6.94 4.87-9.01 1 20.29 1 1.38 1 1.28 1 1.08 1 1.08 1 1.38 1 1.38 1 1.38 1 1.39	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6.96 1 7.39 1 5.47 3 7.82 7.2 1 6.39 1 8.30 2 9.21 9.01 5 5.03 4.51 2 10.68 7.7 2 8.68 7.7 2 8.68 7.7 1 4.08 1 10.43 1 4.08 1 10.43 1 7.02 1 7.02 1 7.03 1 4.08 1 10.43 1 7.02 1 7.03 1 4.06 1 7.02 1 7.03 1 4.06 1 7.02 1 7.03 1 7.03
	Ternstroenia gymanthera Arisaema serratum Myraine aeguini Eurya japonina Gamelia esasangan Psychotria natura Psychotria natura Psychotria natura Psychotria natura Psychotria espenso Dryopteria sordidjess Phapsicologis indica Phapsicologis accidenta Schoolidi Castengois indica Phapsicologis indica Phaps	(living mature leaf, browse) (living mature leaf, browse) (living mature leaf, browse) (living mature leaf, monocot) (living mature leaf, browse) (living mature leaf, litter) (fallen green leaf, litter) (fallen fruit, litter) (fallen fruit, litter) (fallen fruit, litter) (fallen brown leaf, litter)	2006 winter 2008 winter 2008 winter 2008 spring	1 354 1 343 1 295 1 351 35-1.66 1.39 2 1 551 35-1.66 1.39 2 5 68 1 91-0.99 5 0.81 0.48-0.74 2 0.80 0.55-0.65 1 2.95 1 2.95 2 1 3 342 2 2.75 2.41-3.09 2 2.75 2.41-3.09 1 1.63 1 1.63 1 1.63 1 1.7.33 1 5.36 1 1.7.33 1 1.7.33 1 5.36 1 1.7.33 1 1.7.	1 8.58 1 19.98 1 7.16 1 8.98 1 7.16 1 8.98 2 10.08 10.99-11.17 4 10.14 8.82-11.41 2 8.48 8.15-8.66 1 10.53 1 6.41 8.00-10.90 2 16.33 15.70-16.96 1 16.7 1 8.49 1 11.67 1 30.31 1 9.49 1 8.49 1 8.49 1 8.99 1 8.90 2 1 8.74 1 8.90 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 12.30 1 12.30 1 12.40 1 17.98 1 19.50 1 17.98 1 19.50 1 1 14.71 1 19.81 1 19.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 30.18 1 16.79 3 24.32 21.87-26.30 1 24.68 1 35.80 2 24.04 23.91-24.18 5 28.84 27.97-29.85 2 32.68 30.91-34.41 1 40.63 2 32.61 19.42-27.80 2 23.61 19.42-27.80 2 26.11 20.27 1 21.38 2 20.27 1 1 20.38 1 20.27 1 1 30.78 1 1 30.78 1 20.27 1 30.78 2 2 33.68 2 2 33.84 24.47-44.52 2 33.62 2 43.86 24.47-44.52 1 33.62 2 43.86 24.47-44.52	1 6.27 1 21.94 2 11.86 11.29-12.42 1 13.52 1 18.87 1 43.81 1 35.2 1 18.87 1 43.6 1 43.0 1 45.0 1 15.7 1 15.7 1 12.59 2 19.88 19.53-20.43 2 26.93 25.72-28.13 1 23.30 1 23.30 1 20.52 1 14.81 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.93 1	1 1.35 1 7.63 3 4.94 4.66 - 5.44 1 12.54 2 13.65 13.34 - 13.97 5 13.79 11.65 - 15.51 2 7.68 15.32 - 13.97 2 10.58 53 - 8.83 1 10.58 53 - 8	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1.50 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6.96 1 7.39 1 5.47 1 6.39 1 8.30 2 9.21 9.00 5 5.03 4.51 2 9.23 8.9 1 6.47 2 9.33 8.9 1 4.08 1 16.43 1 7.02 1 8.55 1 7.72 1 8.30 1 7.72 1 8.30 1 8.
	Ternstroenia gymanthera Arisaema serratum Myraine aeguini Eurya japonica Distylum racemosum Distylum racemosum Distylum racemosum Arachniodes aristata Psychotria serpens Dryopteria sordidjess Phaphiologis indica Rhus succedana Melia azedrach Rhus succedana Melia azedrach Eleocorpus sylvestris Myrac ruba indoddii Geometria holosenicea Eurya emarginata Ardisa sibadoldii Ouercus salicina Unicas salicina Unicas salicina Unicas salicina Disranopteris Ilmeanis Litesa apunicas (Leyera japonica (Leyera japonica)	(living mature leaf, browse) (living mature leaf, browse) (living mature leaf, browse) (living mature leaf, monocot) (living mature leaf, browse) (fallen frower, litter) (fallen green leaf, litter) (fallen green leaf, litter) (fallen prowse) (fallen frower, litter) (fallen frower, leaf, litter) (fallen frower)	2006 winter 2006 winter 2006 winter 2006 winter 2008 spring 2008 s	1 354 1 343 1 295 1 39-1.66 139* 2 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	1 8.58 1 19.98 1 7.16 1 19.98 1 7.16 1 8.98 1 7.16 1 6.89 1 6.89 1 6.89 2 16.48 1 10.53 1 6.41 1 10.53 1 6.41 1 10.53 1 6.41 1 10.53 1 1 6.41 1 6.41	1 12.30 1 24.70 1 17.98 1 17.98 1 14.97-20.15 1 14.71 1 10.07 2 2 25.5 20.88-28.55 2 19.66 12.10-28.01 1 14.83 1 18.24 8.04-9.21 2 8.62 8.04-9.21 2 8.62 8.04-9.21 1 10.79 1 17.39 1 14.74 1 14.74 1 14.74 1 1 4.74 1 1 5.29 1 4.41 1 6.67 1 6.10 1 6.67 1 6.10 1 6.29 1 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1 30.18 1 6.79 3 24.32 21.87-26.30 1 24.68 1 35.80 2 24.04 23.91-24.18 5 28.94 27.97-29.85 2 32.68 30.91-34.41 1 40.83 2 2 26.61 30.91-34.41 2 2.45 2 2.65 1 30.75 2 2 26.61 19.42-27.80 2 2.65 1 30.75 2 2 2.65 1 30.75 2 2 2.65 1 30.75 2 2 2.65 1 30.75 2 2 2.65 1 30.75 2 2 2.65 1 30.75 2 2 2.65 1 30.75 2 2 2.65	1 6.27 1 21.94 2 11.86 11.29-12.42 1 13.52 1 18.87 1 43.81 1 35.2 1 18.87 1 43.67 1 45.7 1 15.57 1 12.59 2 19.88 19.53-20.43 2 26.93 25.72-28.13 1 23.3 1 20.52 1 14.81 1 12.66 1 30.68 1 30.68 1 30.03 1 42.05 1 44.51 1 44.51 1 44.51 1 44.51	1 1.35 1 7.63 3 494 4.66 - 5.44 1 12.54 1 12.54 1 13.57 1 13.57 1 13.57 1 10.55 1 10	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6.96 1 7.39 1 5.47 1 6.39 2 9.21 9.0 2 9.21 9.0 5 5.03 4.5 2 9.33 8.9 1 6.43 1 0.30 1 3.21 1 4.08 1 16.43 1 7.02 1 8.55 1 1 6.43 1 7.02 1 8.55 1 1 6.87 2 9.72 5.8 1 6.87 1 7.55 1 6.87 2 9.72 5.8 1 6.87 1 7.55 1 6.87 2 9.72 5.8 1 6.87 1 7.55 1 6.87 2 9.72 5.8 1 6.87 1 6.87 2 9.72 5.8 1 6.87 1 7.55 1 6.87 2 9.72 5.8 1 6.87 1 6.87
	Ternstroenia gymanthera Arisaema serratum Myraine seguini Myraine seguini Eurya Japonica Camellia sasangua Distylum racemosum Psychotria rubra Arachinoides aristata Psychotria serbata Psychotria serdigese Psychotria serdigese Musa sucodalane Melia acedarach Rusa sucodalane Melia acedarach Rusa sucodalane Melia sedarach Eseocarpus sylvestris Myrica rubra Castanopsis sieboldii Boehmeria holosericae Eurya emarginata Ardisa sieboldii obreroutse sieliona Litsea acuminata Ursea acuminata Ursea suciminata Myrica rubra Celevara japonica Cleyera japonic	(living mature leaf, browse) (living mature leaf, from) (living mature leaf, from) (fallen flower, litter)	2006 winter 2006 w	1 354 1 343 1 295 1 361 1 362 1 363 1 1 295 1 361 1 362 1 36	1 8.58 1 19.98 1 7.16 1 19.98 1 7.16 1 19.98 1 7.16 1 19.97 1 10.81 1	1 12.30 1 12.30 1 17.38 1 17.35 14.95-20.15 1 14.71 1 10.07 2 20.71 18.82-22.50 5 25.25 20.88-28.55 2 19.06 12.10-28.01 1 18.24 2 8.62 80.4-9.21 2 8.22 7.97-8.47 1 10.79 1 17.39 1 17.39 1 17.39 1 17.39 1 17.39 1 14.81 1 14.74 1 9.29 1 4.41 1 6.64 1 14.74 1 9.29 1 4.43 1 6.67 1 6.67 1 6.67	1 30.18 1 6.79 3 24.32 21.87-26.30 1 24.68 1 35.80 2 24.04 23.91-24.18 5 25.86 23.91-29.45 2 23.61 19.42-27.80 2 23.61 19.42-27.80 2 23.61 19.42-27.00 1 21.36 1 20.07 1 20.07 1 20.07 1 34.26 1 34.26 1 36.32 2 43.49 42.47-44.52 1 36.32 2 43.69 1 20.26 1 36.32 1	1 6.27 2 11.86 11.29-12.42 1 13.52 1 18.67 1 18.67 1 18.67 1 18.67 1 18.67 1 18.67 1 18.67 1 12.59 2 19.98 19.53-20.43 2 26.93 25.72-28.13 1 20.38 1 20.88 1 30.68 1 40.69 1 50.69 1 60.69 1 60.69 1 60.69 1 60.69 1 60.69 1 60.69 1 60	1 1.35 1 7.63 3 4.94 4.66-5.44 1 6.14 1 21.36 1 3.36 13.24-13.97 2 13.95 13.24-13.97 2 13.95 13.24-13.97 2 1.18 5.53-8.83 1 10.58 1 9.24 2 2 1.07 18.14-23.99 2 6.94 4.87-9.01 1 20.29 1 1.38 1 2.88 1 3.60 1 1.71 1 1.30 1 1.71 1 1.30 1 1.71 1 1.30 1 1.92 1 1.92 1 1.93 2 1.97 1.93-2.02 1 1.92 1 1.99 1 1.99 1 1.99 1 1.99 1 1.99 1 1.99 1 1.99 1 1.99	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1 1.50 1 1 1 1 1.50 1 1 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6.96 1 7.39 1 5.47 1 2 1 6.39 1 5.47 1 2 1 6.39 1 5.47 1 2 1 6.39 1 8.30 2 9.21 9.0 1 5.57 2 1 6.69 10.1 5.57 2 1 6.69 10.1 5.57 2 8.68 7.7 2 8.68 8.7 7 2 8.68 8.7 7 2 8.68 8.7 7 2 8.68 8.7 7 2 8.68 8.7 7 5 3 1 4.65 1 6.87 5 8 1 4.65 1 6.87 5 8 1 2.94 1 5.51 1 6.26 1 5.51 1 6.26 1 9.75
	Temstroenia gymanthera Arisaena serratum Myraine aeguini Eurya japonia eurya	(living mature leaf, browse) (living mature leaf, fron) (fallen frone, litter) (fallen frone)	2006 winter 2006 w	1 354 1 343 1 295 1 397 1 343 1 295 1 397	1 8.58 1 19.98 1 7.16 1 19.98 1 7.16 1 19.98 1 7.16 1 19.97 1 10.81 1 10.82 1 10.81 1 10.82 1	1 12.30 1 24.70 1 17.98 1 24.70 1 17.98 1 17.98 1 14.71 1 10.07 2 20.71 18.82-22.60 2 25.25 20.89-28.55 2 19.06 12.10-26.01 1 18.24 2 8.22 2.04-0.21 2 8.22 0.04-0.21 2 8.22 7.97-8.47 1 10.79 1 17.39 1 17.39 1 17.39 1 14.81 1 14.74 1 9.29 1 4.41 1 6.64 1 14.74 1 9.29 1 4.41 1 6.67 1 4.41 1 9.29 1 4.41 1 6.67 1 9.59 1 19.59 1 19.59 1 19.59 1 19.59 1 19.59 1 19.59 1 19.59 1 19.59 1 19.59 1 19.59 1 19.59 1 19.59 1 10.11 1 10.16 2 11.17 13.47-14.88	1 30.18 1 6.79 3 24.32 21.87-26.30 1 24.68 1 35.80 2 34.04 23.91-24.18 5 28.94 27.97-29.18 5 28.94 27.97-29.18 2 32.61 13.03-19.44.1 1 20.53 30.91-34.41 1 20.53 30.91-34.41 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 6.27 2 11.86 11.29-12.42 2 11.86 11.29-12.42 1 18.87 1 18.87 2 14.71 13.46-14.93 2 14.71 13.46-14.93 2 14.71 18.47-24.42 2 14.26 14.01-14.50 1 15.57 1 12.59 2 19.98 19.53-20.43 2 26.93 25.72-28.13 1 23.30 1 20.52 1 14.01 1 30.68 1 30.68 1 30.68 1 30.98 1 42.09 1 33.97 2 39.03 38.19-39.87 1 43.51 1 43.51 1 43.51 1 43.57 2 39.03 38.19-39.87 1 43.57 2 39.03 38.19-39.87 1 43.51 1 44.57 2 39.03 38.19-39.87 1 32.26 2 7.42 6.85-7.99 2 13.95 10.78-17.12	1 1.35 1 7.63 3 4.94 4.66-5.44 1 6.14 1 21.34 1 3.35 1 3.3	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1 1.50 1 1 1 1 1.50 1 1 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6.96 1 7.39 1 5.51 1 6.87 2 1 6.89 1 1 8.30 2 9.21 9.0 5 1 6.87 2 1 6.89 1 1 5.97 1 6.87 2 1 6.89 1 1 5.97 2 9.33 8.9 1 6.43 1 7.02 1 8.55 1 1 6.87 2 1 6.87 2 1 6.87 1 1 6.87 1 7.52 2 9.24 1 1 6.87 1 6.87 1 5.55 1 1 6.87 1 5.55 1 1 6.87 1 5.55 1 1 6.87 2 9.22 5.8 1 1 7.52 2 9.24 1 1 6.87 1 5.51 1 6.87 2 2 9.24 2 2 4.81 7.00 2 2 8.41 7.00 2 2 2 8.41 7.00 2 2 2 8.41 7.00 2 2 2 2 8.41 7.00 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Ternstroenia gymanthera Arisaema serratum Myraine seguini Eurya japonica Camellia sasanqua Distylkum racemosum Distylkum racemosum Postylkum racemosum Postylkum racemosum Posynoteria serdidipes Psychotria serpens Dyyopteris sordidipes Psychotria serdidipes Musa succedanca Melia azedarach Melia azedarach Melia azedarach Eleacoarpus sylvestris Myrica rubra Castanopuis sieboldii Ouercus salicina Litsae acuminata Dicranopteris linearis Litsae alcuminata Myrica rubra (Litsae alcuminata Dicranopteris linearis Litsae algonica (Psyera japonica Ardisa sieboldii Ardisa sieboldii Augreus sieboldii Augreus salicina (Psyera japonica Ardisa sieboldii Stephania japonica Stephania japonica	(living mature leaf, browse) (living mature leaf, fren) (living mature leaf, fren) (living mature leaf, fren) (living mature leaf, fren) (fallen green leaf, litter) (fallen green leaf, litter) (fallen green leaf, litter) (fallen fren) (living matire leaf, dict) (living matire leaf, litter) (fallen brown leaf, litter) (living mature leaf, browse)	2006 winter 2006 w	1 354 1 343 1 295 1 351-186 1 343 1 295 1 351-186 1 351 351-186 1 351 351 351 351 351 351 351 351 351 3	1 8.58 1 19.98 1 7.16 19.98 1 7.16 19.97 1 9.97 1 10.00 9-11.17 1 10.4 8.82-11.41 2 8.41 8.15-8.66 1 10.53 1 10.53 1 1.64 8.82-11.41 1 2.8 4.8 1.0-10.90 2 16.33 15.70-16.96 1 4.91 1 8.49 1 1.8 1.9 1 1 8.92 1 1 8.92 1 1 8.92 1 1 8.92 1 1 8.92 1 1 8.92 1 1 8.92 1 1 8.92 1 1 8.92 1 1 8.92 1 1 8.92 1 1 8.92 1 1 8.92 1 1 8.92 1 1 8.92 1 1 8.92 1 1 8.92 1 1 8.92 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 12.30 1 12.30 1 12.40 1 17.98 1 19.50 1 1 17.98 1 19.50 1 1 14.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 30.18 1 16.79 3 24.32 21.87-26.30 1 24.68 1 35.80 1 5 2 24.04 23.91-24.18 5 2 24.04 23.91-24.18 5 2 25.05 20.05	1 6.27 1 21.94 2 11.86 11.29-12.42 1 13.52 1 18.87 1 18.87 1 18.87 1 18.87 1 18.87 1 18.87 1 18.97 1 18.97 1 18.97 1 19.98 1	1 1.35 1 7.63 3 4.94 4.66-5.44 1 12.54 1 6.14 1 12.54 1 13.63 1 13.24-13.97 1 10.58 1	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6.96 1 7.39 1 5.51 1 6.47 2 8.88 7.7 2 8.31 1 6.47 1 8.30 1 5.51 1 6.47 1 7.02 1 1 6.45 1 7.02 1 1 6.45 1 7.02 1 1 6.45 1 7.02 1 6.45 1 7.02
	Ternstroenia gymanthera Arisaema serratum Myraina seguini Eurya Japonica Camellia sasanqua Eurya Japonica Camellia sasanqua Eurya Japonica Camellia sasanqua Evyschotria rubra Eyychotria subra Eyychotria serbata Psychotria serbata Psychotria serbata Psychotria serbata Psychotria serbata Psychotria serbata Psychotria serbata Melia azedarach Melia azedarach Melia azedarach Melia sedarach Myrica rubra Castanopais sieboldi Boehmera holosericas Eurya emerginata Ardisa sieboldi Ardisa sieboldi Ardisa sieboldi Eurya emerginata Myrica rubra Cleyera japonica Cleyera japonica Cleyera japonica Stephania japonica Stephania japonica Cleyera japonica Mehrologica cordiolia Eurya japonica Cemellia sasanqua	(fiving mature leaf, browse) (fiving mature leaf, fron) (fiving mature leaf, fron) (fiving mature leaf, fron) (fiving mature leaf, fron) (fallen fron) (form mature leaf, fronse) (fiving mature leaf, fronse) (fiving mature leaf, fronse)	2006 winter 2006 w	1 354 1 343 1 295 1 39-166 - 139 2 2 095 091 099 099 099 099 099 099 099 099 099	1 8.58 1 19.98 1 7.16 1 19.98 1 7.16 1 19.98 1 7.16 1 19.97 1 19.97 1 10.18 1 19.97 1 10.18 1 19.74 1 10.14 8.22-11.41 2 8.04 1 10.15 1 10.53	1 12.30 1 12.30 1 17.35 14.95-20.15 1 14.71 1 10.07 1 17.98 1 14.71 1 10.07 2 20.11 18.82-22.60 2 20.98-28.55 2 10.66 (2.10-28.01 1 18.24 2 8.62 6.04-9.21 2 8.62 6.04-9.21 2 8.62 6.04-9.21 1 10.79 1 17.39 1 17.39 1 16.64 1 14.78 1 6.64 1 1 4.78 1 6.67 1 6.10 2 3.54 3.08-4.00 1 4.78 1 8.21 1 19.59 1 10.16 1 10.17 1 10.19 1 10.16 1 10.17 1 10.17 1 10.19 1 10.17 1 10	1 30.18 1 16.79 3 24.32 21.87-26.30 1 24.68 1 25.69 21.87-26.30 1 24.68 2 21.97-26.18 2 24.04 23.91-24.18 2 24.04 23.91-24.19 2 24.04 23.91-24.19 2 24.05 2 25.05 2 25	1 6.27 2 11.86 11.29-12.42 2 11.86 11.29-12.42 1 13.52 1 13.52 1 13.52 1 13.52 1 13.52 1 14.71 14.75 1 12.59 2 19.89 19.53-20.43 2 26.93 25.72-28.13 1 12.50 1 12.56 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 2 30.97 2 39.03 38.19-39.87 1 43.51 1 14.51 1 14.57 2 39.03 38.19-39.87 1 43.51 1 14.57 1 32.26 2 74.26 .655-7.99 1 39.56 10.78-17.12 1 12.61	1 1.35 1 7.63 3 4.94 4.66-5.44 1 614 1 21.665 13.24-13.97 1 10.78 1 10.58 1 9.24 2 2 1.07 18.14-23.99 2 6.94 4.87-9.01 1 20.29 1 1 2.98 1 1.08 1 3.60 1 1.71 1 1.31 1 1.31	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6,96 1 7,39 1 5,47 2 1 6,39 1 5,47 1 8,30 2 9,20 2 9,20 3 5,80 1 5,97 1 6,47 2 9,33 8,9 1 1,408 1 16,43 1 1,408 1 16,43 1 1,408 1 16,43 1 1,408 1 16,43 1 1,408 1 16,43 1 1,408 1 16,43 1 1,408 1 16,43 1 1,408 1 16,43 1 1,551 1 6,87 2 9,72 3 1 2,94 1 5,51 1 6,26 1 2,94 1 3,9
	Ternstroenia gymanthera Arisaema serratum Myraine aeguini Eurya japonica Gomellia essangua es	(fiving mature leaf, browse) (fiving mature leaf, from)  (fallen green leaf, from)  (fallen green leaf, fitter) (fallen prown leaf, fitter) (fallen prown leaf, fitter) (fallen brown leaf, fitter) (fiving mature leaf, browse) (fiving mature leaf, forox)	2006 winter 2006 w	1 354 1 343 1 295 1 397 1 343 1 295 1 397	1 8.58 1 19.98 1 7.16 1 19.98 1 7.16 1 19.98 1 7.16 1 19.97 1 10.99 11.17 1 10.18 10.99 11.17 1 10.18 10.99 11.17 1 10.18 10.99 11.17 1 10.18 10.99 11.17 1 10.53 1 10.53 1 10.53 1 10.99 11.17 1 10.53 1 10.53 1 10.99 1 1 10.99 1 1 1 10.99 1 1 1 10.99 1 1 1 10.99 1 1 1 10.99 1 1 1 10.99 1 1 1 10.99 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 12.30 1 12.30 1 17.35 1 14.71 1 19.88 1 17.35 1 14.71 1 10.07 2 20.71 18.82-22.60 2 2 20.82-28.55 2 10.06 12.10-28.01 1 18.25 2 10.06 12.10-28.01 1 18.24 2 8.82 20.49-9.21 2 8.22 7.97-8.47 1 10.79 1 17.39 1 17.39 1 13.67 1 6.64 1 14.71 1 9.29 1 1 14.41 1 9.29 1 1 14.71 1 6.10 2 3.54 3.08-4.00 1 4.78 1 8.21 1 9.59 1 10.16 1 12.21 1 9.59 1 10.16 1 12.21 1 19.59 1 10.16 1 12.21 1 19.59 1 10.16 1 12.21 1 19.59 1 10.16 1 12.21 1 19.59 1 11.82 1 19.59 1 11.82 1 19.59 1 11.82 1 19.59 1 11.83 1 19.59 1 11.83 1 19.59 1 11.83 1 19.59 1 11.83 1 19.59 1 11.83 1 19.59 1	1 30.18 1 67.9 3 24.32 21.87-26.30 1 24.68 1 35.80 2 24.04 22.91-24.18 5 22.66 27.97-29.95 5 22.66 27.97-29.95 2 23.61 19.42-27.80 2 23.61 19.42-27.80 1 20.27 1 20.27 1 20.27 1 20.27 1 20.27 1 30.78 2 34.69 1 36.28 1 34.26 1 36.28 1 34.26 1 36.28 2 33.69 1 36.28 2 33.69 1 36.28 2 33.69 1 36.28 2 33.69 1 36.28 2 33.69 1 36.28 2 34.94 2 41.94 2 36.73 3 32.7-38.19 1 20.07 1 32.69 1 33.89 1 33.89 1 34.26 2 36.73 3 32.7-38.19 1 20.07 1 33.99 1 33.99 1 34.94 2 36.73 3 32.7-38.19 1 20.07 1 33.99 1 20.07 2 36.73 3 32.7-38.19 1 20.07 1 23.50 1	1 6.27 2 11.86 11.29-12.42 2 11.86 11.29-12.42 1 13.52 1 18.62 1 18.62 1 18.62 2 14.71 13.46-14.98 2 14.72 18.42-24.42 2 14.26 14.01-14.50 1 15.57 1 12.59 2 19.98 19.53-20.43 2 26.93 25.72-28.13 1 23.30 2 26.93 25.72-28.13 1 12.36 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 42.09 2 39.03 38.19-39.87 44.51 1 14.57 3 22.66 2 7.42 6.85-7.99 2 7.45 6.85-7.99 2 7.45 6.85-7.99 1 12.61 1 7.86 1 12.61	1 1.35 1 7.63 3 4.94 4.66-5.44 1 6.14 1 21.35 1 3.35 1 3.35 1 3.35 1 3.35 1 3.35 1 3.24 2 1.35 1 10.58 1 9.24 2 2 1.07 18.14-23.99 2 6.94 4.87-9.01 1 20.29 1 5.29 1 1.28 1 3.60 1 1.71 1 1.39 1 1.39 2 1.31 1 1.50 2 1.31 1 1.50 2 1.31 1 2.85 1 1.50 1	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6,96 1 7.39 1 5.47 7.2 1 6.39 1 5.47 7.2 1 6.39 1 5.47 7.2 1 6.39 1 5.47 7.2 1 6.39 1 5.47 7.2 1 6.47 7.2 2 6.47 7.2 2 6.47 7.2 2 6.47 7.2 1 6.47 7.2 1 7.03 1 7.
	Ternstroenia gymanthera Arisaema serratum Myraine aeguini Eurya japonica Distylum racemosum Distylum racemosum Distylum racemosum Arachniodes aristata Psychotria serpens Dryopteris sordidjess Phaphiologis indica Rhus succedana Melia azedrach Rhus succedana Melia azedrach Elescocapus sylvestris Myrica rubra italoddii Gelevia servici distylum racemosum Senting and S	(living mature leaf, browse) (living mature leaf, browse) (living mature leaf, browse) (living mature leaf, monocct) (living mature leaf, browse) (living mature leaf, litter) (fallen green leaf, litter) (fallen green leaf, litter) (fallen fruit, litter) (fallen fruit, litter) (fallen fruit, litter) (fallen brown leaf, browse) (living mature leaf, browse) (living mature leaf, browse) (living mature leaf, browse)	2006 winter 2006 w	1 354 1 343 1 295 1 39-1.66 - 139* 2 15 1 39-1.66 - 139* 2 15 1 39-1.66 - 139* 2 15 1 342 2 2.75 2.41-3.09 1 2.51 2 15 1 2.51 2 2 1 2.51 2 1 2.51 2 1 2.51 2 1 2.51 2 1 2.51 2 1 2.51 2 1 2.51 2 1 2.51 2 1 2.51 2 1 2.51 2 1 2.51 2 1 2.51 2 1 2.51 2 1 2.51 2 2 1 2.51	1 8.58 1 19.98 1 7.16 1.99 1 19.98 1 7.16 1.99 1 19.98 1 7.16 1.99 1 1.17 1 19.98 1 19.99 1 1.17 1 19.98 1 19.99 1 1.17 1 19.98 1 19.99 1 19.9	1 12.30 1 24.70 1 17.98 1 24.70 1 17.98 1 14.97-20.15 1 14.71 1 10.07 2 25.75 20.88-28.55 2 19.66 12.10-28.01 1 14.83 1 18.24 2 18.26 20.4-9.21 2 8.22 7.97-8.47 1 10.79 1 17.39 1 17.39 1 17.39 1 17.39 1 14.74 1 14.74 1 14.74 1 1 14.74 1 1 6.67 1 6.10 1 1 9.29 1 4.41 1 6.21 1 1 8.29 1 4.41 1 1 6.21 1 1 1 9.29 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 30.18 1 6.79 3 24.32 21.87-26.30 1 24.68 1 35.80 2 24.04 23.91-24.18 5 28.84 27.97-29.85 2 32.68 30.91-34.41 1 40.53 2 32.68 30.91-34.41 1 40.53 2 32.68 30.91-34.41 1 40.53 2 32.68 30.91-34.41 1 40.53 2 32.68 30.91-34.41 1 40.53 2 32.68 30.91-34.41 2 32.68 30.91 2 32.69 30.91 30.	1 6.27 1 2194 2 11.86 11.29-12.42 1 13.52 1 18.87 1 31.52 1 18.87 1 34.6-14.98 5 21.47 11.45-14.50 1 16.57 1 42.51 14.01-14.50 1 19.88 19.53-20.43 2 19.88 19.53-20.43 2 19.98 19.53-20.43 2 19.98 19.53-20.43 1 12.33 1 20.30 1 20.52 1 14.81 1 12.66 1 30.68 1 30.68 1 38.89 1 39.93 1 14.51 1 14.57 1 32.26 2 742.6.85-7.99 2 13.95 10.78-17.12 1 14.57 1 32.26 1 74.56 1 11.82 1 11.82 1 11.82 1 11.82 1 11.82 1 11.82 1 11.82 1 11.82	1 1.35 1 7.63 3 4.94 4.66 - 5.44 1 12.54 1 12.54 2 13.65 13.34 - 13.97 5 13,79 11.65 - 15.51 1 10.58 2 1 10.58 2 1 10.58 3 1 10.58 3 1 10.58 3 1 10.58 3 1 10.58 3 1 10.58 3 1 10.58 3 1 10.58 3 1 10.58 3 1 10.58 3 1 10.58 3 1 10.58 3 1 10.58 3 1 10.58 3 1	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6.96 1 7.39 1 5.47 1 2 1 6.39 1 5.47 1 2 1 6.39 1 5.47 1 2 1 6.39 1 6.
	Ternstroenia gymanthera Arisaema serratum Myraine seguini Eurya japonica Camellia sasangua Distylkum racemosum Distylkum racemosum Psychotria seriatu Psychotria sergens Dyopteris sordidjess Psychotria sergens Sergens Psychotria Sergens Serge	(fiving mature leaf, browse) (fiving mature leaf, fron) (fallen fron) (fiving mature leaf, fron)	2006 winter 2006 w	1 354 1 343 1 295 1 39-166 - 139-9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 8.58 1 19.98 1 7.16 1.99 1 19.98 1 7.16 1.99 1 1 19.98 1 7.16 1.99 1 1 19.97	1 12.30 1 24.70 1 17.98 1 24.70 1 17.98 1 14.97-20.15 1 14.71 1 10.07 2 25.75 20.98-28.55 2 19.66 12.10-26.01 1 14.83 1 18.24 2 8.62 20.4-9.21 2 8.62 20.4-9.21 2 8.62 20.4-9.21 1 10.79 1 17.39 1 17.39 1 17.39 1 14.87 1 6.67 1 6.10 1 4.44 1 14.74 1 14.78 1 6.87 1 6.10 1 10.16 2 3.54 3.08-4.00 1 4.78 1 19.99 1 10.16 2 14.17 13.47-14.88 2 12.92 12.82-13.02 1 17.88 2 11.92 12.82-13.02 1 18.87 1 11.88 1 11.89 1 11.80 1 11.81 1 11.84 1 1 9.02 1 11.13 7.02-15.67	1 30.18 1 6.79 3 24.32 21.87-26.30 1 24.68 1 35.80 2 24.04 23.91-24.18 5 28.84 27.97-29.85 2 32.68 30.91-34.41 1 40.83 2 2 26.61 30.91-34.41 2 3.65 2 2 26.61 19.42-27.80 2 26.61 19.42-27.80 2 26.61 19.42-27.80 1 22.05 1 30.78 1 20.27 1 21.35 2 2 2 41.94 22.47-44.52 2 36.73 35.27-38.19 1 20.87 2 20.18 1 34.26 2 41.90 41.06-42.74 2 36.73 35.27-38.19 1 20.87 2 20.91	1 6.27 1 21.94 2 11.86 11.29-12.42 1 13.52 1 18.87 1 34.6-14.98 2 14.31 13.46-14.98 2 14.31 13.46-14.98 2 14.32 14.36-14.91 1 15.57 1 12.59 2 19.98 19.53-20.43 2 26.93 25.72-28.13 1 12.33 1 20.52 1 14.81 1 12.66 1 30.68 1 38.85 2 63.12 2 4 2 2 5 2 9 4 7	1 1.35 1 7.63 3 4.94 4.66-5.44 1 12.54 1 12.54 1 13.57 1 13.57 1 13.57 1 13.57 1 10.58	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6,96 1 7,39 1 5,47 2 1 6,39 1 5,47 2 1 6,39 2 5,50 2 1 6,59 2 1 6,59 2 1 6,59 2 1 6,59 2 1 6,59 2 1 6,59 2 1 6,59 2 1 6,59 2 1 6,59 2 1 6,59 2 1 6,59 2 1 6,59 2 1 6,59 2 1 6,59 2 1 6,59 2 1 6,59 2 1 6,59 2 1 6,59 2 1 7,53 2 1 7,53 2 1 7,53 3 1 4,65 3 1 7,53 3 1 4,65 3 1 6,59 3 1 7,53 3 1 4,55 3 1 7,53 3 1 4,55 3 1 7,53 3 1 4,55 3 1 7,53 3 1 4,55 3 1 7,53 3 7,54 3
	Ternstroenia gymanthera Arisaema serrota Myraine seguini Eurya Japonica Camellia sasangua Eurya Japonica Camellia sasangua Eurya Japonica Camellia sasangua Eurya Japonica Pistylium racemosum Psychotria rubra Arachinodea aratata Dryoptaria sordidipes Rhashiologis indica Rhus succedanea Melia azedarach Rusa succedanea Melia azedarach Eleacoarpus sylvestris Myrica rubra Castanopsis sieboldii Boehmeria holosericae Eurya emarginata Ardisa sieboldii Ouercus salicina Myrica rubra Celevara japonica Cleyera japonica Cleyera japonica Cleyera japonica Stephania japonica Stephania japonica Eurya emarginata Neptrolepis cordibila Stephania japonica Cleyera japonica Oleyera japonica Oleyera japonica Cleyera japonica Cleyera japonica Stephania japonica Cleyera japonica Cleyera japonica Cleyera japonica Cleyera japonica Cleyera japonica Stephania japonica Cleyera japonica Cleye	(living mature leaf, browse) (living mature leaf, fren) (living mature leaf, fren) (living mature leaf, fren) (fallen flower, litter)	2006 winter 2006 w	1 354 1 343 1 295 1 397 1 343 1 295 1 397	1 8.58 1 7.16 1 19.98 1 7.16 1 9.97 1 6.98 2 11.08 10.99-11.17 4 10.14 8.22-11.41 2 8.41 8.15-8.66 1 10.53 1 6.41 2 8.41 8.15-8.66 1 10.53 1 6.41 2 8.45 8.00-10.90 2 16.33 15.70-16.96 1 4.91 1 8.49 1 1 11.67 1 30.31 1 9.49 1 8.74 1 8.92 2 12.41 1 8.92 2 12.41 1 8.92 1 7.19 1 1 6.93 1 7.19 1 1 6.93 1 7.19 1 1 0.82 2 13.47 12.54-14.39 2 8.20 8.16-8.25 1 7.93 1 8.19 1 1 10.82 1 3.47 12.54-14.39 2 8.20 8.16-8.25 1 7.93 1 8.19 1 1 10.82 1 3.47 12.54-14.39 2 8.20 8.16-8.25 1 7.93 1 8.19 1 8.51 1 8.11 1 8.51 1 8.51 1 8.11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 12.30 1 12.30 1 17.98 1 24.70 1 17.98 1 17.98 1 14.71 1 10.07 2 20.71 18.82-22.60 2 2 20.82-28.55 2 19.06 12.10-28.01 1 14.83 1 18.24 2 8.82 20.49-8.21 2 8.82 20.49-8.21 1 10.79 1 17.39 1 17.39 1 17.39 1 14.44 1 14.71 1 9.29 1 14.74 1 9.29 1 14.74 1 9.29 1 1 14.74 1 9.29 1 1 14.74 1 9.29 1 1 14.74 1 9.29 1 1 14.74 1 9.29 1 1 17.38 1 1 14.78 1 1 14.78 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 30.18 1 6.79 3 24.22 1 24.68 1 35.80 2 24.04 2 39.1-24.18 5 28.94 2 24.04 2 39.1-24.18 5 28.94 2 23.61 1 32.45 2 23.61 1 24.62 2 36.11 2 34.52 2 36.11 3 24.52 3 2.10 1 20.78 1 30.78 1 34.26 1 35.22 3 36.78 3 36.22 3 3 3 2 2 3 3 3 2 2 3 3 3 2 3 3 3 2 3 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 3 2 3 3 3 2 3 3 3 2 3 3 3 2 3 3 3 3 3 2 3	1 6.27 2 11.86 11.29-12.42 2 11.86 11.29-12.42 1 13.52 1 18.87 1 13.86 12.99 1 13.86-14.99 2 14.71 13.46-14.99 1 15.57  1 12.59 2 19.98 19.53-20.43 2 26.93 25.72-28.13 1 12.33 1 12.35 1 12.35 1 12.35 1 12.35 1 12.35 1 14.87 1 32.56 1 32.68 1 32.98 1 42.09 1 33.97 2 39.03 38.19-39.87 1 43.51 1 44.57 2 39.03 38.19-39.87 1 32.26 2 7.42 6.85-7.99 2 13.95 10.78-17.12 1 77.86 2 7.42 6.85-7.99 1 13.61 1 12.61 1 11.86 1 13.64 1 13.48 1 13.48	1 1.35 1 7.63 3 4.94 4.66-5.44 1 6.14 1 21.34 1 3.35 1 3.35 1 3.35 1 3.24 2 2 1.07 18.14-23.99 2 2 1.07 18.14-23.99 2 6.94 4.87-9.01 1 20.29 1 1.30 1 2.38 1 1.058 1 1.30 1 1.71 1 1.30 1 1.30 1 1.71 1 1.30 1 1	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1 1.50 1 1 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6,96 1 7.39 1 5.47 2 1 1 6.39 1 5.47 2 1 1 6.39 1 5.47 2 1 1 6.39 2 9.21 9.00 1 1 8.30 2 9.21 9.00 1 1 8.30 2 9.21 9.00 1 1 8.30 1 8.30 1 1 8.30
	Ternstroenia gymanthera Arisaema serratum Myraina seguini Eurya Japonica Camellia sasangua Distyllum racemosum Psychotria rubra Distyllum racemosum Psychotria rubra Psychotria sentra Melia acedarach Melia acedarach Melia acedarach Melia acedarach Myrica rubra Castanopais sieboldii Andes sieboldii An	(fiving mature leaf, browse) (fiving mature leaf, from)  (fallen green leaf, fitter) (fallen frome, fitter) (fallen frome, fitter) (fallen frome, fitter) (fallen frome, fitter) (fallen prowned, fitter) (fallen prowned, fitter) (fallen frome, fitter) (fallen frowned, fitter) (fallen frowned) (fiving mature leaf, frowse)	2006 winter 2006 w	1 354 1 343 1 295 3 1.55 1.35-1.66 - 1.39 2 2 0.95 0.91 - 0.99 2 0.95 0.95 1 3.42 2 0.95 0.95 1 3.42 2 0.95 0.95 1 3.42 2 0.95 0.95 1 3.42 2 0.75 2.41 - 3.09 1 1 2.51 1 2.51 1 2.51 1 3.63 1 1.27 1 1.63 1 1.03 1 1	1 8.58 1 7.16 1 19.98 1 7.16 1 9.97 1 10.81 1 9.97 1 6.98 2 11.08 10.99-11.17 4 10.14 82-11.41 2 10.53 11.5-8.66 1 10.53 1 6.41 2 9.45 8.00-10.90 2 16.33 15.70-16.96 1 4.91 1 8.49 1 1.67 1 30.31 1 8.49 1 1.87 1 30.31 1 8.49 1 1.89-12 1 1.82 2 5.74 4.82-6.66 1 12.31 1 8.93 1 7.19 1 10.87 1 20.81 1 8.52 1 8.52 1 8.52 1 8.52 1 8.52 1 8.52 1 8.53 1 7.19 1 10.87 1 20.81 1 8.93 1 7.19 1 10.87 1 20.81 1 8.93 1 7.19 1 10.87 1	1 12.30 1 24.70 1 17.98 1 24.70 1 17.98 1 14.97 1 19.88 1 14.97 1 10.07 1 18.22-22.60 5 22.55 20.98-28.55 2 2 15 20.98-28.55 2 1 36.66 2.10-28.01 1 18.24 2 8.62 20.49-9.21 2 8.22 7.97-8.47 1 10.79 1 17.39 1 17.39 1 13.67 1 6.64 1 14.41 1 9.24 1 1 14.78 1 6.64 1 1 14.78 1 1 1.98 1 1 19.99 1 17.39 1 17.39 1 1 13.67 1 1 1.13.67 1 1 1.13.71 1 1 1.13.71 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 30.18 1 16.79 3 24.32 21.87-26.30 1 24.68 1 35.80 21.97-24.18 2 44.04 23.91-24.18 2 44.04 23.91-24.18 2 44.04 23.91-24.18 2 4.04 23.91-24.19 1 40.83	1 6.27 2 11.86 11.29-12.42 2 11.86 11.29-12.42 1 13.52 1 13.52 1 13.52 1 13.52 1 13.52 1 13.53 2 14.71 18.47-24.42 2 14.26 14.01-14.50 1 15.57 1 12.59 2 19.89 19.53-20.43 2 26.93 25.72-28.13 1 12.66 2 13.06 8 1 32.05 1 14.81 1 12.66 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 14.51 1 14.57 1 32.26 2 74.26 85-7.99 1 32.56 2 74.26 85-7.99 1 31.34 1 11.35 1 13.48 1 13.	1 1.35 1 7.63 3 4.94 4.66-5.44 1 6.14 1 21.36 1 3.13 1.324-1.39 1 3.15 1.324-1.39 1 10.58 1 9.24 2 1.07 18.14-23.99 2 6.94 4.87-9.01 1 20.29 1 1.99 1 1.08 1 3.60 1 1.71 1 1.30 1 1.71 1 1.30 1 1.71 1 1.30 1 1.71 1 1.30 1 1.71 1 1.30 1 1.71 1 1.30 1 1.72 2 3.17 2.82-3.52 2 5.52 3.40-7.65 1 12.64 1 13.28 1 7.77 2 8.88 7.79-9.96 1 9.88 7.79-9.96 1 9.88 7.79-9.96 1 9.88 7.79-9.96 1 9.88 7.79-9.96 1 9.88 7.79-9.96 1 2.64 1 1.328 1 7.77 2 8.88 7.79-9.96	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6,96 1 7,39 1 5,47 1 6,39 1 5,47 1 8,30 2 9,20 2 9,30 2 9,30 1 3,27 1 6,47 2 9,33 1 9,47 2 9,33 1 1 4,08 1 1 6,43 1 7,02 2 9,33 2 9,41 1 7,02 2 9,72 2 8,68 1 2,94 1 1 6,53 1 6,87 1 8,55 1 6,87 1 8,55 1 6,87 1 8,53 1 1 4,65 1 6,87 1 8,03 1 3,21 1 1 1,12 1 5,18 1 8,03 1 7,04 1 7,71 1 17,12 1 5,18 1 8,03 1 7,04 1 7,71 1 17,12 1 5,18 1 8,03 1 7,04 1 7,71 1 17,12 1 5,18 1 8,03 1 7,04 1 7,71 1 17,12 1 5,18 1 8,03 1 7,04 1 7,71 1 17,12 1 5,18 1 8,03 1 7,04 1 7,71 1 17,12 1 5,18 1 8,03 1 7,04 1 7,71 1 17,12 1 5,18 1 8,03 1 7,04 1 7,71 1 17,12 1 5,18 1 8,03 1 7,04 1 7,71 1 17,12 1 5,18 1 8,03 1 7,04 1 7,71 1 7,10 2 9,23 2 3,62 2 3,
	Ternstroenia gymanthera Arisaema servisaema servisaema Myraine aeguini Eurya japonica Camellia sasanqua Camellia sasanqua Psychotria nutra Psychotria nutra Psychotria nutra Psychotria servidiges Phaphiologis indica Castanguis sisboldii Ouercus salioina Lissa acuminata Lissa acuminata Lissa acuminata Lissa japonica Cleyera japonica Cleyera japonica Cleyera japonica Cleyera japonica Cleyera japonica Cleyera japonica Camellia sasanqua Vernicia cordata Camellia sasanqua Vernicia cordata Micrologia strigosa Micrologia strigosa Micrologia strigosa Micrologia strigosa	(fiving mature leaf, browse) (fiving mature leaf, fron) (fiving mature leaf, fiving) (fiving mature leaf, browse) (fiving mature leaf, browse) (fiving mature leaf, browse) (fiving mature leaf, browse) (fiving mature leaf, fron)	2006 winter 2006 w	1 354 1 343 1 295 1 391-099 1 0 991-099 2	1 8.58 1 19.98 1 7.16 1 19.98 1 7.16 1 19.98 1 7.16 1 19.97 1 10.97 11.17 1 10.18 10.99-11.17 1 10.18 10.99-11.17 1 10.18 10.99-11.17 1 10.18 10.99-11.17 1 10.18 10.99-11.17 1 10.18 10.19 1 10.18 10	1 12.30 1 24.70 1 17.98 1 24.70 1 17.98 1 14.97 1 19.80 1 14.71 1 10.07 2 20.71 18.82-22.60 2 25.25 20.98-28.55 2 19.98 28.70 1 18.83 1 18.24 2 8.82 20.49-9.21 2 8.82 20.49-9.21 2 8.82 20.49-9.21 1 10.79 1 17.39 1 17.39 1 18.41 1 14.74 1 9.29 1 18.61 1 14.74 1 9.29 1 1 1.98 2 1 1.17 3 1.98 3 1 1.17 3 1 1.98 3 1 1.17 3 1 1.98 3 1 1.17 3 1 1.98 3 1 1.17 3 1 1.98 3 1 1.17 3 1 1.98 3 1 1.17 3 1 1.98 3 1 1.17 3 1 1.98 3 1 1.17 3 1 1.98 3 1 1.17 3 1 1.98 3 1 1.17 3 1 1.98 3 1 1.17 3 1 1.98 3 1 1.17 3 1 1.98	1 30.18 1 16.79 3 24.32 21.87-26.30 1 24.68 1 35.80 21.87-26.30 1 24.68 1 35.80 27.97-29.85 27.97-29.85 2 23.61 19.42-27.80 2 23.61 19.42-27.80 1 20.25 2 25.11 25.22-27.00 1 21.36 2 20.25 1 20.25 2 20.25 1 20.25 2 20.25 1 20.25 2 20.25 1 20.25 2 20.25 1 20.25 2 20.25 1 20.25 2 20.25 1 20.25 2 20.25 1 20.25 2 20.25 1 20.25 2	1 6.27 2 11.86 11.29-12.42 1 13.52 1 18.67 1 13.52 1 18.67 1 13.52 1 18.67 1 18.67 1 18.67 2 14.71 13.46-14.98 2 14.72 18.45-24.42 2 14.26 14.01-14.50 1 15.57 1 12.59 2 19.98 19.53-20.43 2 26.93 25.72-28.13 1 23.30 1 20.52 1 1 22.30 1 20.52 1 1 20.30 1 20.52 1 1 20.30 1 20.52 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 42.09 1 30.71 1 12.66 1 30.68 1 42.09 1 30.71 1 12.66 1 30.88 1 42.09 1 30.88 1	1 1.35 1 7.63 3 4.94 4.66-5.44 1 12.34 1 6.14 1 12.35 1 3.34 -1.39 1 3.35 1 3.34 -1.39 1 3.35 1 3.35 1 9.24 2 2 1.07 18.14-23.99 2 6.94 4.87-9.01 1 20.29 1 5.29 1 11.39 1 10.58 1 3.60 1 1.71 1 1.30 1 1.71 1 1.30 1 1.71 1 1.30 1 1.71 1 1.30 1 1.71 1 1.30 2 1.91 1 1.92 2 1.91 1 1.92 2 1.91 1 1.92 2 1.91 1 1.92 2 1.91 1 1.92 2 1.91 1 1.92 2 1.91 1 1.92 2 1.91 1 1.92 2 1.91 1 1.92 2 1.91 1 1.92 2 1.91 1 1.92 2 1.91 1 1.92 2 1.91 1 1.92 2 1.91 1 1.92 2 1.91 1 1.92 2 1.91 1 1.92 2 1.91 1 1.92 2 1.91 1 1.92 2 1.91 1 2.65 1 1.265 1 1.265 1 1.265 1 1.264 1 1.328 1 7.77 2 8.88 7.79-9.96 1 9.80 2 3.04 2.95-3.12 2 1.73 1 3.00-2.17 2 1.73 1 3.00-2.17 1 9.80	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6,96 1 7,39 1 5,47 1 6,39 1 5,47 1 6,39 1 5,47 1 6,39 2 9,21 9,01 5 5,00 4 4,51 1 6,43 1 7,02 2 8,68 7,74 2 9,33 8,9 1 1,408 1 16,43 1 7,02 2 8,68 7,74 2 9,33 8,9 1 3,21 1 4,08 1 16,43 1 7,02 2 8,44 7,07 1 6,26 1 9,75 2 6,46 6,3 2 9,72 8,47 1 7,71 1 7,
	Ternstroenia gymanthera Arisaema serratum Myraine seguini Eurya japonica Ostoliko Japonica Arachiniodes aristata Psychotris serdidipes Psychotris serdidipes Physhotris	(living mature leaf, browse) (Iving mature leaf, from) (Iving mature leaf, from)  (Iving mature leaf, from)  (Iving mature leaf, from)  (Iving mature leaf, Itter) (Fallen from leaf, Itter) (Fallen from leaf, Itter) (Iving mail new leaf, Iving mature leaf, Iving leaf, Iving mature leaf, Iving m	2006 winter 2006 w	1 354 1 343 1 295 1 391-099 1 506 1 391-099 1 391-09	1 8.58 1 19.98 1 7.16 1.99 1 1.99 1 1.99 1 1.99 1 1.17 1 1.99 1 1.99 1 1.17 1 1.99 1 1	1 12.30 1 24.70 1 17.98 1 24.70 1 17.98 1 14.97 2 11.70 2 20.15 1 14.71 1 10.07 2 20.57 2 19.06 1 14.83 1 18.24 2 19.06 1 14.83 1 18.24 2 8.62 2 0.49-9.21 2 8.62 2 0.49-9.21 2 8.62 2 0.49-9.21 3 8.62 1 17.39 1 17.39 1 17.39 1 17.39 1 17.39 1 18.67 1 6.67 1 6.10 1 9.99 1 17.39 1 18.67 1 6.67 1 6.10 1 19.29 1 4.41 1 6.67 1 6.10 1 19.29 1 4.41 1 19.29 1 4.41 1 19.29 1 4.41 1 19.29 1 4.41 1 19.29 1 1 18.87 1 1 19.89 1 1 10.16 2 1 11.13 2 1 11.88 2 1 2.99 1 1 18.87 1 1 18.87 1 1 18.87 1 1 18.87 1 1 18.87 1 1 18.87 1 1 18.87 1 1 18.87 1 1 18.87 1 1 18.87 1 1 18.87 1 1 18.88 1 1 19.88 1 1 19.88 2 1 2.99 1 1 18.87 1 1 18.87 1 1 18.87 1 1 18.87 1 1 18.87 1 1 18.88 1 1 19.88 1 1 1 18.87 1 1 1 18.87 1 1 1 18.87 1 1 1 18.87 1 1 1 18.87 1 1 1 18.87 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 30.18 1 6.79 3 24.32 21.87-26.30 1 24.68 1 35.80 2 24.04 23.91-24.18 5 28.84 27.97-29.85 2 32.68 30.91-34.41 1 40.83 2 23.61 13.42-27.80 2 23.61 13.42-27.80 2 23.61 13.42-27.80 1 21.35 2 22.61 12.52-27.00 1 21.36 2 23.61 13.42-27.80 1 20.27 1 34.28 1 20.27 1 34.28 2 23.61 20.27 1 34.28 2 23.61 20.27 1 34.28 2 2 34.34 42.47-44.52 1 23.62 2 41.90 41.06-42.74 2 36.73 35.27-38.19 1 20.28 1 13.32 2 20.88 1 13.33 1 1 22.20 8 1 13.33 1 1 17.95 1 19.36 1 1 17.95 1 19.36 1 1 17.95 1 1 1 17.95 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6.27 1 2194 2 11.86 11.29-12.42 1 13.52 1 18.87 1 33.52 1 18.87 1 34.6 14.98 5 21.47 11.46-14.50 5 21.47 11.46-24.51 1 5.57 1 15.57 1 15.57 1 12.59 2 19.98 19.53-20.43 2 26.93 25.72-28.13 1 12.33 1 23.30 1 20.52 1 14.81 1 12.66 1 30.68	1 1.35 1 7.63 3 4.94 4.66-5.44 1 12.54 1 6.14 1 12.54 2 13.68 13.34-13.97 5 13.79 11.65-15.51 2 10.58 53-8.83 1 10.58 53-8.83	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6.96 1 7.39 1 5.47 1 7.39 1 5.47 1 6.39 1 5.47 1 6.39 1 5.97 1 6.47 2 9.33 8.9 1 0.30 1 3.20 2 8.68 7.72 2 9.33 8.9 1 0.30 1 3.20 2 8.68 7.75 2 9.33 8.9 1 1.60 2 9.72 3 8.41 3 8.50 1 9.75 1 6.57 1 7.53 1 6.57 1 7.53 1 6.57 1 7.53 1 1 8.55 1 7.53 1 1 8.55 1 7.53 1 1 8.55 1 7.53 1 1 8.55 1 7.53 1 1 8.55 1 7.53 1 1 8.55 1 7.53 1 1 8.55 1 7.53 1 1 8.51 1 8.51 1 8.51 1 8.51 1 8.51 1 8.51 1 8.51 1 8.51 1 8.51 1 8.51 1 8.51 1 8.51 1 8.51 1 8.51 1 8.51 1 8.51 1 8.51 1 8.51 1 8.51 1 7.64 1 7.74
	Ternstroenia gymanthera Arisaema serratum Myraina seguini Eurya Japonica Camellia sasangua Distylium racemosum Psychotologis and seriata Psychotria serratulges aristata Psychotria serratulges mista Psychotria serratulges Thaphiologis indica Rhaphiologis indica Rhus succedanea Melia azedarach Melia azedarach Melia azedarach Eleacoarpus sylvestris Myrica rubra Castanopais sieboldii Ouercus selicina Castanopais sieboldii Ouercus selicina Uniternatura Castanopais sieboldii Ouercus selicina Uniternatura Dicranopteria linearia Litsae alcuminata Dicranopteria linearia Litsae alcuminata Dicranopteria linearia Litsae alcuminata Dicranopteria linearia Litsae alcuminata Dicranopteria linearia Stephania japonica Camellia sasanopua Distylium racemosum Distylium racemosum Distylium racemosum Stephania japonica Camellia sasanopua Distylium racemosum Stephania japonica Trema orientalia Crupa Japonica Trema orientalia Trema orientalia Trema orientalia Trema orientalia Prumus Jamasakira monocot sp. Philipsuus maninoi Hibiacus ma	(fiving mature leaf, browse) (fiving mature leaf, fron) (fiving mature leaf, fron)  (fallen fron) (fiving mature leaf, fron)  (fallen fron) (fallen fron)  (form mature leaf, fron)  (fallen fruit, litter)	2006 winter 2006 w	1 354 1 343 1 295 1 39-166 - 139-16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 8.58 1 19.98 1 7.16 1 19.98 1 7.16 1 9.97 1 19.98 1 7.16 1 9.97 1 10.00 1 9.97 1 10.4 (8.22-11.41 2 8.41 8.15-8.66 1 10.53 1 6.41 2 9.45 8.00-10.90 2 16.33 15.70-16.96 1 4.91 1 8.49 1 11.67 1 30.39 1 8.49 1 11.67 1 30.39 1 8.92 2 8.20 8.16-8.25 1 7.93 1 8.17 1 9.80 2 8.20 8.16-8.25 1 7.93 1 8.17 1 9.59 1 10.82 2 13.47 12.54-14.39 2 8.20 8.16-8.25 1 7.93 1 8.17 1 9.59 1 10.22 2 13.47 12.54-14.39 2 8.20 8.16-8.25 1 7.93 1 8.17 1 9.59 1 1 5.79 1 3.39 1 3.32 1 3.32 1 3.33 1 3.32 1 3.33 1 3.33 1 3.33 1 3.33 1 3.33 1 3.33 1 3.33 1 3.33 1 3.33 1 3.34 1 3.59 1 3.59 1 3.59 1 3.59 1 3.59 1 3.59 1 3.59 1 3.39 1 3 3.39 1 3 3.32 1 3.39 1 3 3.33 1 3.31 1 3.59 1 3.	1 12.30 1 24.70 1 17.98 1 24.70 1 17.98 1 14.97 2 11.79 1 14.71 1 10.07 1 18.22-22.80 2 2 25.55 20.88-28.55 2 19.06 12.10-26.01 1 14.83 1 18.24 2 8.62 20.49-9.21 2 8.62 20.49-9.21 2 8.62 20.49-9.1 1 10.79 1 17.39 1 17.39 1 18.44 1 18.47 1 6.67 1 6.10 1 18.47 1 1 6.67 1 6.10 1 1 8.29 1 1 1 18.47 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 30.18   16.79   3 24.52   21.87-26.30   1 24.68   1 35.00   24.68   1 35.00   24.68   23.97-24.18   24.69   23.97-24.18   24.69   23.97-24.19   24.6	1 6.27 2 11.86 11.29-12.42 2 11.86 11.29-12.42 1 13.52 1 14.31 13.46-14.98 5 21.47 19.45-24.42 2 14.26 14.01-14.50 1 15.57 1 12.59 2 19.89 18.53-20.43 2 8.39 25.72-28.13 1 22.30 2 2.39 2 2.52-28.13 1 12.66 1 30.68	1 1.35 1 7.63 3 4.94 4.66-5.44 1 7.63 1 7.63 3 4.94 4.66-5.44 1 12.685 13.34-13.97 1 12.98 1 10.58 1 9.24 2 1.07 18.14-23.99 2 6.94 4.87-9.01 1 20.29 1 1.298 1 1.088 1 3.60 1 1.73 1 1.39 1 1.38 1 3.60 1 1.73 1 1.39 1 2.38 1 3.60 1 1.39 1 2.38 1 3.30 1 2.28 1 1.39 1 2.38 1 3.30 1 2.38 1 3.30 1 2.28 1 1.39 1 2.38 1 3.39 1 3.	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6,96 1 7,39 1 5,47 1 6,39 1 5,47 1 6,39 1 5,47 1 6,39 1 8,30 2 9,503 2 1,503 2 1,503 2 1,503 3 1,503
	Ternstroenia gymanthera Arisaema servisema Myraine aeguini Eurya japonica Camellia easanqua Camellia easanqua Psychotria nubra Psychotria nubra Psychotria nubra Psychotria nubra Psychotria expens Dyopteria sordidjess Rhaphiolopis indica Castanopia sieboldii Ouercus salioina Lissa discontinata Lissa discontinata Lissa giaonica Lissa japonica Lissa japonica Lissa japonica Celevera japo	(living mature leaf, browse) (living mature leaf, fren) (fallen frower, litter) (living mature leaf, frower)	2006 winter 2006 w	1 354 1 343 1 295 1 351.35-1.66 - 139** 1 295 2 0.60 0.55-0.65 1 295 2 0.60 0.55-0.65 1 295 2 0.60 0.55-0.65 1 295 2 0.60 0.55-0.65 1 295 2 0.60 0.55-0.65 1 295 2 0.60 0.55-0.65 1 295 2 0.60 0.55-0.65 1 295 2 0.60 0.55-0.65 1 295 2 0.60 0.55-0.65 1 295 2 0.60 0.55-0.65 1 295 2 0.60 0.55-0.65 1 295 2 0.60 0.55-0.65 1 295 2 0.60 0.55-0.65 1 295 2 0.60 0.55-0.65 1 295 2 0.60 0.55-0.65 1 295 2 0.60 0.55-0.65 1 295 2 0.60 0.55-0.55 1 295 2 0.60 0.55-0.55 0.55 0.55 0.55 0.55 0.55 0.5	1 8.58 1 7.16 1 19.98 1 7.16 1 19.98 1 7.16 1 19.98 1 7.16 1 19.99 1 7.16 1 19.99 1 10.48 18.9-11.17 2 10.14 18.82-11.41 2 8.48 18.15-8.66 1 10.53 1 6.41 1 10.53 1 6.41 1 10.53 1 7.19 1 10.87 1 8.74 1 8.92 1 11.67 1 8.74 1 8.92 2 8.26 1 10.82 2 8.27 2 8.48 8.2-6.66 1 10.82 2 8.27 1 8.74 1 8.92 2 8.26 1 9.38 1 7.19 1 10.82 2 8.26 1 12.31 1 6.93 1 7.19 1 10.82 2 8.26 1 12.31 1 7.19 1 10.82 2 13.47 12.54-14.39 2 8.26 1 13.71 1 9.59 1 10.81 1 12.91 1 10.82 2 13.47 12.54-14.39 2 8.26 1 13.71 1 9.59 1 10.82 2 13.47 12.54-14.39 2 8.26 2 13.47 12.54-14.39 2 8.26 2 13.47 12.54-14.39 2 8.26 2 13.47 12.54-14.39 2 8.26 2 13.47 12.54-14.39 2 8.26 2 13.47 12.54-14.39 2 8.26 2 13.47 12.54-14.39 2 8.26 2 13.47 13.54-14.39 2 8.26 2 13.47 13.54-14.39 2 8.26 2 13.47 13.54-14.39 2 8.26 2 13.47 13.54-14.39 2 8.26 2 13.47 13.54-14.39 2 8.26 2 13.47 13.54-14.39	1 12.30 1 24.70 1 17.98 1 24.70 1 17.98 1 17.39 1 14.95-20.15 1 14.71 1 10.70 1 70.71 1 10.70 1 70.71	1 30.18   16.79   16.79   17.75   17.7	1 6.27 2 11.86 11.29-12.42 1 13.52 1 18.87 1 13.52 1 18.87 1 13.54 1 13.46-14.93 1 14.71 1 13.46-14.93 1 14.71 1 12.59 2 19.86 19.53-20.43 2 12.69 12.57 2 19.98 19.53-20.43 2 26.93 25.72-28.13 1 12.33 1 20.35 1 12.53 1 12.33 1 20.52 1 14.81 1 38.85 1 42.99 1 39.80 1 43.51 1 38.85 1 42.99 1 39.90 38.19-39.87 1 43.51 1 43.51 1 14.51 1 17.86 2 7.42 6.85-7.99 2 13.95 10.78-17.12 1 17.86 2 7.42 6.85-7.99 2 13.95 10.78-17.12 1 17.86 2 13.95 10.59 1 12.61 1 11.82 1 16.06 1 13.54 1 13.54 1 13.54 1 13.54 1 13.54 1 13.54 1 13.54 1 13.54 1 13.54 1 13.54 1 13.54 1 13.55 1 12.63 1 13.55 1 12.63 1 13.55 1 12.63 1 13.55 1 12.63 1 13.55 1 12.63 1 13.55 1 12.63 1 13.55 1 12.63 1 13.55 1 12.63 1 13.55 1 12.63 1 13.55 1 12.63 1 13.55 1 12.63 1 13.55 1 12.63 1 13.55 1 12.63 1 13.55 1 13.55 1 13.55 1 13.55 1 13.55 1 13.55 1 13.55 1 13.55 1 14.51 1 14.51 1 13.55 1	1 1.35 1 7.63 3 4.94 4.66-5.44 1 7.63 1 7.63 3 4.94 4.66-5.44 1 12.54 1 6.14 1 12.55 1 13.65 1 13.24-1.39 1 13.65 1 13.24-1.39 1 10.58	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6.96 1 7.39 1 5.47 1 6.30 1
	Ternstroenia gymanthera Arisaema serratum Myraina seguini Eurya Japonica Camellia sasangua Distylium racemosum Psychotologis and seriata Psychotria serratulges aristata Psychotria serratulges mista Psychotria serratulges Thaphiologis indica Rhaphiologis indica Rhus succedanea Melia azedarach Melia azedarach Melia azedarach Eleacoarpus sylvestris Myrica rubra Castanopais sieboldii Ouercus selicina Castanopais sieboldii Ouercus selicina Uniternatura Castanopais sieboldii Ouercus selicina Uniternatura Dicranopteria linearia Litsae alcuminata Dicranopteria linearia Litsae alcuminata Dicranopteria linearia Litsae alcuminata Dicranopteria linearia Litsae alcuminata Dicranopteria linearia Stephania japonica Camellia sasanopua Distylium racemosum Distylium racemosum Distylium racemosum Stephania japonica Camellia sasanopua Distylium racemosum Stephania japonica Trema orientalia Crupa Japonica Trema orientalia Trema orientalia Trema orientalia Trema orientalia Prumus Jamasakira monocot sp. Philipsuus maninoi Hibiacus ma	(fiving mature leaf, browse) (fiving mature leaf, fron) (fiving mature leaf, fron)  (fallen fron) (fiving mature leaf, fron)  (fallen fron) (fallen fron)  (form mature leaf, fron)  (fallen fruit, litter)	2006 winter 2006 w	1 354 1 343 1 295 3 155 1,35-1.66 - 138* 5 195 1,35-1.66 - 138* 5 195 1,35-1.66 - 138* 5 195 1,35-1.66 - 138* 5 195 1,35-1.66 - 138* 1 251 2 251 2 308 2,94-3,24 2 2,75 2,41-3.09 1 251 1 251 2 1,251 1 1,06	1 8.58 1 19.98 1 7.16 1 19.98 1 7.16 1 9.97 1 19.98 1 7.16 1 9.97 1 10.00 1 9.97 1 10.4 (8.22-11.41 2 8.41 8.15-8.66 1 10.53 1 6.41 2 9.45 8.00-10.90 2 16.33 15.70-16.96 1 4.91 1 8.49 1 11.67 1 30.39 1 8.49 1 11.67 1 30.39 1 8.92 2 8.20 8.16-8.25 1 7.93 1 8.17 1 9.80 2 8.20 8.16-8.25 1 7.93 1 8.17 1 9.59 1 10.82 2 13.47 12.54-14.39 2 8.20 8.16-8.25 1 7.93 1 8.17 1 9.59 1 10.22 2 13.47 12.54-14.39 2 8.20 8.16-8.25 1 7.93 1 8.17 1 9.59 1 1 5.79 1 3.39 1 3.32 1 3.32 1 3.33 1 3.32 1 3.33 1 3.33 1 3.33 1 3.33 1 3.33 1 3.33 1 3.33 1 3.33 1 3.33 1 3.34 1 3.59 1 3.59 1 3.59 1 3.59 1 3.59 1 3.59 1 3.59 1 3.39 1 3 3.39 1 3 3.32 1 3.39 1 3 3.33 1 3.31 1 3.59 1 3.	1 12.30 1 24.70 1 17.98 1 24.70 1 17.98 1 14.97 2 11.79 1 14.71 1 10.07 1 18.22-22.80 2 2 25.55 20.88-28.55 2 19.06 12.10-26.01 1 14.83 1 18.24 2 8.62 20.49-9.21 2 8.62 20.49-9.21 2 8.62 20.49-9.1 1 10.79 1 17.39 1 17.39 1 18.44 1 18.47 1 6.67 1 6.10 1 18.47 1 1 6.67 1 6.10 1 1 8.29 1 1 1 18.47 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 30.18 1 16.79 3 24.32 21.87-26.30 1 24.68 1 35.80 2 24.04 23.91-24.18 5 28.24 27.97-29.35 2 2.66 3.09 1-4.41 1 40.63 2 1.64 2 23.61 13.42-27.80 2 23.61 13.42-27.80 1 21.25 22-27.00 1 21.36 2 23.61 13.42-27.80 1 20.27 1 18.80 1 20.27 1 18.80 1 20.27 1 18.80 1 20.27 1 18.80 1 20.27 1 1 20.35 2 2 34.49 42.47-44.52 1 20.18 2 23.62 2 34.49 42.47-44.52 1 23.62 2 34.49 42.47-44.52 1 20.18 2 36.73 23.73 32.738.19 1 20.27 1 2	1 6.27 2 11.86 11.29-12.42 2 11.86 11.29-12.42 1 13.52 1 14.31 13.46-14.98 5 21.47 19.45-24.42 2 14.26 14.01-14.50 1 15.57 1 12.59 2 19.89 18.53-20.43 2 8.39 25.72-28.13 1 22.30 2 2.39 2 2.52-28.13 1 12.66 1 30.68	1 1.35 1 7.63 3 4.94 4.66-5.44 1 7.63 1 7.63 3 4.94 4.66-5.44 1 12.685 13.34-13.97 1 12.98 1 10.58 1 9.24 2 1.07 18.14-23.99 2 6.94 4.87-9.01 1 20.29 1 1.298 1 1.088 1 3.60 1 1.73 1 1.39 1 1.38 1 3.60 1 1.73 1 1.39 1 2.38 1 3.60 1 1.39 1 2.38 1 3.30 1 2.28 1 1.39 1 2.38 1 3.30 1 2.38 1 3.30 1 2.28 1 1.39 1 2.38 1 3.39 1 3.	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6.96 1 7.39 1 5.47 1 6.30 1
	Ternstroenia gymanthera Arisaema servica Marisaema Mar	(living mature leaf, browse) (living mature leaf, fron)  (fallen green leaf, litter) (fallen flower, litter) (fallen flower, litter) (fallen pallow leaf, litter) (fallen pallow leaf, litter) (fallen pallow leaf, litter) (fallen brown leaf, litter) (living mature leaf, browse) (living mature leaf, florowse)	2006 winter 2006 w	1 354 1 343 1 295 3 1.55 1.35-1.66 - 1.39 2 2 0.50 1.649-0.74 2 0.50 1.649-0.74 2 0.50 1.649-0.74 2 0.50 1.649-0.74 2 0.50 1.649-0.74 2 0.50 1.649-0.74 2 0.50 1.649-0.74 2 0.50 1.649-0.74 2 0.75 2.41-3.09 1 2.51 1 3.42 2 1.75 2.41-3.09 1 1.53 1 1.26 1 1.53 1 1.26 1 1.53 1 1.26 1 1.53 1 1.26 1 1.53 1 1.26 1 1.53 1 1.26 1 1.53 1 1.26 1 1.53 1 1.26 1 1.53 1 1.26 1 1.56 1 1.52 1 1.58 1 1.58 1 1.58 1 1.58 1 1.58 1 1.58 1 1.58 1 1.58 1 1.58 1 1.58 1 1.59 1 1.	1 8.58 1 7.16 1 19.98 1 7.16 1 9.97 1 19.98 1 7.16 1 9.97 1 10.94 1 10.00 2 11.00 2 10.00 2 10.33 15.70-16.96 1 4.91 1 8.49 1 11.67 1 30.31 1 8.49 1 11.67 1 30.31 1 8.49 1 11.67 1 30.31 1 8.49 1 1 1.67 1 30.31 1 1 1.67 1 30.31 1 1 1.67 1 30.31 1 1 1.67 1 30.31 1 1 1.67 1 30.31 1 1 1.67 1 30.31 1 1 1.67 1 30.31 1 1 1.67 1 30.31 1 1 1.67 1 30.31 1 1 1.67 1 30.31 1 1 1.67 1 30.31 1 1 1.67 1 30.31 1 1 1.98 1 8.17 1 9.59 1 6.51 1 7.93 1 8.17 1 9.59 1 6.51 1 7.93 1 8.17 1 9.59 1 6.51 1 7.93 1 8.17 1 9.59 1 6.51 1 7.93 1 8.17 1 9.59 1 6.51 1 7.93 1 8.17 1 9.59 1 6.51 1 7.93 1 8.17 1 9.59 1 6.51 1 7.93 1 8.17 1 9.59 1 6.51 1 20.49 1 13.20	1 12.30 1 24.70 1 17.98 1 24.70 1 17.98 1 14.97 1 17.98 1 14.97 1 10.07 1 18.24 2 20.08 2 25.50 20.8-28.55 2 3 306 2 2.10-28.01 1 18.24 2 8.62 2 0.4-9.21 2 8.62 2 0.4-9.21 2 8.62 2 0.4-9.47 1 10.79 1 17.39 1 17.39 1 18.24 1 14.41 1 14.74 1 6.67 1 6.10 1 14.78 1 18.87 1 18.82 1 19.82 1 19.82 1 19.82 1 19.83 1 19.83 1 19.84 1 19.84 1 19.84 1 19.86 1	1 30.18   16.79   24.68   17.24   16.79   24.68   17.24   17.2	1 6.27 2 11.86 11.29-12.42 2 11.86 12.91-12.42 1 13.52 1 18.03 1 13.46-14.98 5 21.47 18.47-24.42 2 14.26 14.01-14.50 1 15.57 1 12.59 2 19.98 19.53-20.43 2 26.93 25.72-28.13 1 12.66 1 30.68 1 40.68 1 30.68 1 40.68 1	1 1.35 1 7.63 3 4.94 4.66-5.44 1 7.63 1 7.63 3 4.94 4.66-5.44 1 12.35 1 7.63 1 7.63 1 7.63 1 7.63 1 7.63 1 7.63 1 7.63 1 9.24 2 2 1.07 18.14-23.99 2 6.94 4.87-9.01 1 20.22 6 9.34 4.87-9.01 1 20.22 6 9.34 4.87-9.01 1 20.23 1 1.98 1 3.60 1 3.60 1 1.71 1 1.30 1 1.30 2 2 2.83 1 1.99 1 2.28 1 1.99 1 8.87 2 3.17 2.82-3.52 2 3.17 2.82-3.52 2 5.52 3.40-7.65 1 12.62 1 1.92 1 1.93 1 2.265 1 1.264 1 1.328 1 7.77 2 8.86 7.79-9.96 1 9.87 2 3.04 2.95-3.12 2 1.73 1.30-2.17 1 2.72 1 9.80 2 2 1.73 1.30-2.17 1 2.72 1 9.80 2 2 1.73 1.30-2.17 1 2.73 1 7.37 3.22-7.42 5 1.71 1.07-3.40 1 2.28 1 1.10-3.40 1 2.28	1 0.62 1 0.75 1 1.50 1 0.75 1 1.50 1 0.75 1 1.50 1 0.75 1	1 6,96 1 7,39 1 5,47 1 8,30 1 5,47 1 8,30 1 5,47 1 8,30 1 5,47 1 8,30 1 8,47 1 8,51 1
	Temstroenia gymanthera Arisaema servisaema servisaema Myraine aeguini Eurya japonica Comellia easanqua Comellia easanqua Comellia easanqua Psychotria nutra Arachniodes aristata Psychotria nutra Arachniodes aristata Psychotria servidojess Physhotria expens Dryopteria sordidjess Elaeocarpus sylvestris Myrica rubra Elaeocarpus sylvestris Myrica rubra Elaeocarpus sylvestris Myrica rubra Elaeocarpus sylvestris Myrica rubra Castanopsis sichodii Cuercus salicina Cuercus japonica Ardisa saboldi Cuercus salicina Cuercus japonica Ardisa saboldi Cuercus salicina Cuercus japonica Ardisa saboldi Cuercus salicina Cuercus japonica Cuercus salicina Cuercus japonica Cuercus salicina Cuercus japonica Cuercus salicina Cuercus japonica Cuercus jap	(fiving mature leaf, browse) (fiving mature leaf, from)  (fallen green leaf, litter) (fallen flower, litter) (fallen green leaf, litter) (fallen green leaf, litter) (fallen green leaf, litter) (fallen prowse) (fiving mature leaf, litter) (fallen prowse) (fiving mature leaf, litter) (fiving mature leaf, browse) (fiving mature leaf, from)	2006 winter 2006 w	1 354 1 343 1 295 1 343 1 295 2 135:1,35:1,36:1,66 1 139** 2 036:1,97:1,97:1,97:1,97:1,97:1,97:1,97:1,97	1 8.58 1 7.16 1 19.98 1 7.16 1 9.97 1 19.98 1 7.16 1 9.97 1 10.99-11.17 1 10.18 822-11.41 2 10.08 10.29-11.17 1 10.18 822-11.41 2 10.53 1 6.41 2 9.45 8.00-10.90 2 16.33 15.70-16.96 1 4.91 1 8.49 1 1.57 1 9.31 1 8.49 1 1.59 1 8.50 1 8.52 2 13.47 8.66 1 12.31 1 8.92 2 13.27 8.66 1 12.31 1 8.93 1 7.19 1 1 8.92 2 1 8.74 1 8.92 2 1 8.74 1 8.93 1 7.19 1 1 8.93 1 7.19 1 1 8.93 1 7.19 1 1 8.93 1 7.19 1 1 8.93 1 8.17 1 9.59 1 6.51 1 9.38 1 8.17 1 9.39 1 6.51 1 20.49 1 9.38 1 15.79 1 6.51 1 20.49 1 9.38 1 15.79 1 1.50	1 12.30 1 24.70 1 17.98 1 24.70 1 17.98 1 14.97 1 19.80 1 14.81 1 10.07 1 18.82-22.60 5 25.25 20.98-28.55 2 15 20.98-28.55 2 15 20.98-28.55 2 16 26 20.10-28.01 1 18.24 2 8.62 20.40-9.21 2 8.22 7.97-8.47 1 10.79 1 17.39 1 17.39 1 13.67 1 6.64 1 12.24 1 9.24 1 1 14.41 1 6.44 1 1 1 1.24 1 1 1.24 1 1 1.24 1 1 1.347-14.88 2 1 1 1.98 1 1 1.	1 30.18   16.79   3 24.32   21.87-26.30   1 24.68   1 35.80   24.04   23.91-24.18   25.24   24.04   23.91-24.18   25.25   25.2	1 6.27 2 11.86 11.29-12.42 2 11.86 11.29-12.42 1 13.52 1 18.67 1 18.67 1 18.67 1 18.67 2 14.71 13.46-14.98 2 14.72 18.45-24.42 2 14.26 14.01-14.50 1 15.57 1 12.59 2 19.98 19.53-20.43 2 26.93 25.72-28.13 1 23.30 1 20.52 1 19.88 19.53-20.43 2 26.93 25.72-28.13 1 12.33 1 20.52 1 1 20.53 1 1 20.53 1 20.53 1 20.53 1 20.55 1 42.09 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 42.09 2 39.03 38.19-39.87 1 44.51 1 30.68 1 30.68 1 30.68 1 30.68 1 42.09 1 30.68 1 30.68 1 42.09 1 30.68 1 30.68 1 42.09 1 30.68 1 42.09 1 30.68 1 42.09 1 30.68 1 42.09 1 30.68 1 42.09 1 30.68 1 42.09 1 30.68 1 42.09 1 30.68 1 42.09 1 30.68 1 42.09 1 30.68 1 42.09 1 30.68 1 3	1 1.35 1 7.63 3 4.94 4.66-5.44 1 7.63 1 7.63 3 4.94 4.66-5.44 1 12.54 1 6.14 1 12.54 1 13.55 1 13.55 1 13.55 1 10.58 1 10.58 1 10.58 1 10.58 1 10.58 1 10.58 1 10.58 1 10.58 1 10.58 1 10.58 1 3.60 1 11.71 1 1.30 1 10.88 1 3.60 1 1.71 1 1.30 1 1.30 1 1.31 1 1.31 1 1.32 1 1.32 1 1.32 1 1.32 1 1.32 1 1.32 1 1.32 1 1.33 1 1.34 1 1.35	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6,96 1 7,39 1 5,47 1 6,39 1 5,47 1 6,39 2 9,20 2 9,20 3 5,57 1 6,47 2 9,33 8,9 1 1,408 1 1,4
	Ternstroenia gymanthera Arisaema serratum Myraine seguini Eurya japonica Camellia sasangua Distylum racemosum Distylum racemosum Distylum racemosum Arachniodes aristata Psychotria sergens Dryopteris sordidjes Mila sucedana Melia azedarach Psychotria serdidjes Mus aucedana Melia azedarach Riba sucedana Melia azedarach Europea subodidi Ouercus salicina Useratum Ardisa sibodidi Ouercus salicina Useratum Districtura di Participa di Pa	(fiving mature leaf, browse) (fiving mature leaf, fron) (fiving mature leaf, fitter) (fillen frover, fitter) (fillen frover) (fiving mature leaf, frover)	2006 winter 2006 w	1 354 1 343 1 295 3 1,55 1,35-1.66 - 1,39* 5 0,51 0,35-1.65 1 295 5 0,51 0,35-1.65 1 295 1 295 2 0,60 0,55-0.65 1 295 2 309 2,94-3,24 2 2,75 2,41-3.09 1 2,51 1 342 2 1,75 2,41-3.09 1 2,51 1 3,73 1 5,36 1 1,73 1 1,40,7 1 1,14 1 1,01 1 3,38 1	1 8.58 1 19.98 1 7.16 1 19.98 1 7.16 1 19.98 1 7.16 1 19.97 1 10.18 1 10.99-11.17 1 10.18 1 10.99-11.17 1 10.18 1 10.99-11.17 1 10.18 1 10.53 1 6.41 1 10.53 1 6.41 1 10.53 1 6.41 1 8.15-8.66 1 10.53 1 8.49 1 8.15-8.66 1 10.53 1 8.10	1 12.30 1 24.70 1 17.98 1 24.70 1 17.98 1 14.97 1 19.98 1 14.97 1 10.07 1 10.07 1 10.07 1 10.07 1 10.07 1 10.07 1 10.07 1 10.07 1 10.07 1 10.07 1 14.83 1 12.44 1 10.07 1 10.07 1 17.39 1 17.39 1 17.39 1 17.39 1 17.39 1 17.39 1 17.39 1 18.67 1 16.67 1 6.67 1 6.10 1 19.29 1 4.41 1 6.67 1 6.10 1 19.29 1 4.41 1 1 6.67 1 6.10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 30.18   16.79   24.62   19.7	1 6.27 2 11.86 11.29-12.42 2 11.86 11.29-12.42 1 13.52 2 14.31 13.46-14.98 2 14.71 94.5-24.42 2 14.26 14.01-14.50 1 15.57 1 12.59 2 19.98 19.53-20.43 2 8.33 25.72-28.13 1 22.30 1 20.52 1 14.81 1 12.66 1 30.68 1 30.68 1 38.89 1 33.97 2 93.03 38.19-39.87 1 43.51 1 12.66 1 30.68 1 30.68 1 30.68 1 30.78-17.12 1 12.61 1 11.52 1 17.86 1 12.61 1 11.82 2 19.93 28.19-39.87 1 43.51 1 14.55 1 14.55 1 14.55 1 14.55 1 14.55 1 12.61 1 13.54	1 1.35 1 7.63 3 4.94 4.66-5.44 1 7.63 3 4.94 4.66-5.44 1 6.14 1 2 1.265 13.34-13.97 1 1.27 1 1.27 1 1.27 1 1.28 1 1.28 1 1.28 1 2.24 2 1.07 18.15-15.11 2 7.18 5.53-8.83 1 10.58 1 10.	1 0.62 1 0.75 1 1.50 94-1.15 1 0.75 1 1.50 94-1.15 1 0.84 1 0.71 0 0.84 0.87 0.87 0.87 0.87 0.87 0.87 0.87 0.87	1 6,96 1 7,39 1 5,47 1 6,39 1 5,47 1 6,39 1 5,47 1 6,39 1 5,47 1 6,39 1 6,39 1 6,31 1 6,39 1 6,31 1 6,39 1 1 6,39 1 1 6,30 1 3,20 2 8,68 1 7,75 2 9,33 2 8,41 1 6,30 1 1 8,55 1 7,53 1 6,37 1 8,40 1 1 8,55 1 7,53 1 1 8,57 1 7,53 1 1 8,31 1 8,40 2 9,23 3 1 1 1 8,31 1 8,40 3 1 1 8,31 1 8,40 3 1 1 8,31 1 8,40 3 1 1 8,31 1 8,40 3 1 1 8,31
	Ternstroenia gymanthera Arisaema serratum Myraine seguini Eurya japonica Camellia sasangua Distylium racemosum Distylium racemosum Psychotria sergens Dyyopteris sordidjes Psychotria sergens Dyyopteris sordidjes Rhaphiologis indica Racedarach Rusa sucedanea Melia azedarach Rusa sucedanea Melia azedarach Europa sindi Gastanopais sieboldii Ouercus salicina Castanopais sieboldii Ouercus salicina Litsae acuminata Dicranopteris linearis Litsae acuminata Dicranopteris linearis Litsae alcuminata Dicranopteris linearis Litsae alcuminata Dicranopteris linearis Litsae alcuminata Dicranopteris linearis Eurya imponica Ardisia sieboldii Ouercus salicina Cilyaera japonica Eurya emarginata Celyaera japonica Camellia sasanqua Distylium racemosum Distylium racemosum Camelia sasanqua Vernicia cordata Arabiniodes aristata Eurya japonica Hebiacus makinei Lithocapyus edulis trola litter Lithocapyus edulis total litter Litsae acuminata Eurya emarginata Melia azedarach	(fiving mature leaf, browse) (fiving mature leaf, fron) (fallen fron)	2006 winter 2006 w	1 354 1 343 1 295 3 1,555 1,35-1.66 - 1,39° 5 0,65 1,35-1.66 - 1,39° 5 0,65 1,35-1.66 - 1,39° 6 0,65 1,25-1.65 1 295 1 3,42 2 1,55 2,41-3.09 1 2,51 1 3,42 2 1,57 2,41-3.09 1 1,53 1 1,16 1 1,1	1 8.58 1 19.98 1 7.16 1 19.98 1 7.16 1 19.98 1 7.16 1 19.97 1 19.97 1 10.09-11.17 1 10.09-11.17 1 10.09-11.17 1 10.14 1.09-11.17 1 10.14 1.09-11.17 1 10.14 1.09-11.17 1 10.14 1.09-11.17 1 10.14 1.09-11.17 1 10.15 1	1 12.30 1 24.70 1 17.98 1 24.70 1 17.98 1 14.97 2 11.70 1 18.22-22.80 2 2 25.25 20.89-22.55 2 19.66 12.10-26.01 1 14.83 1 18.24 2 8.62 20.49-9.21 2 8.62 20.49-9.21 2 8.62 20.49-9.1 1 10.79 1 17.39 1 17.39 1 17.39 1 18.67 1 6.67 1 6.10 1 18.79 1 18.67 1 6.67 1 6.10 1 18.79 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 30.18   16.79   3 24.82   21.87-26.30   1 24.68   1 35.80   21.97-26.80   1 24.68   23.97-26.80   1 24.68   23.97-26.80   23.26   30.91-34.41   1 40.83   22.26   30.91-34.41   1 40.83   23.26   30.91-34.41   1 40.83   23.26   30.91-34.41   1 40.83   23.26   30.91-34.41   1 40.83   30.76   31.80   30.76   31.80   30.78   31.80   30.78   31.80   32.27   30.78   31.80   32.27   30.78   31.80   32.27   30.78   31.80   32.27   30.78   31.80   32.27   30.78   31.80   32.27   30.78   32.27   32.28   32.27   32.27   32.28   32.27   32.27   32.27   32.27   32.27   32.27   32.27   32.27   32.27   32.27   32.27   32.27   32.27   32.27   32.27   32.27   32	1 6.27 2 11.86 11.29-12.42 2 11.86 11.29-12.42 1 13.52 1 14.31 13.46-14.98 2 14.71 94.72 1 14.57 1 15.77 1 15.77 1 15.77 1 12.59 2 19.89 19.53-20.43 2 2.89 3 25.72-28.13 1 12.56 1 12.56 1 30.68 1 40.99 1 12.89 1 30.68 1 30.68 1 30.68 1 40.99 1 30.68 1 40.99 1 40	1 1.35 1 7.63 3 4.94 4.66-5.44 1 7.63 1 7.63 3 4.94 4.66-5.44 1 12.265 13.34-13.97 1 12.98 1 10.58 1 9.24 2 21.07 18.14-23.99 2 6.94 4.87-9.01 1 20.29 1 1 2.98 1 1.08 1 3.60 1 1.70 1 1.30 1 2.56 1 1.51 1 5.12 1 1.30 1 2.56 1 1.51 1 5.12 1 7.30 1 2.265 1 1.51 1 7.30 1 2.265 1 1.51 1 2.64 1 1 3.24 1 7.30 1 2.265 1 1 2.64 1 1 3.24 1 1 3.30 1 2.265 1 1 2.64 1 1 3.24 1 1 3.30 1 2.265 1 1 2.64 1 1 3.24 1 1 3.30 1 2.565 1 5.15 1 5.15 1 5.15 1 5.15 1 5.15 1 7.30 1 2.265 1 1 5.15 1 5.15 1 7.30 1 2.265 1 1 5.15 1 5.15 1 5.15 1 7.30 1 2.265 1 1 5.15 1 5.15 1 5.15 1 5.15 1 5.15 1 5.15 1 5.15 1 5.15 1 5.15 1 5.15 1 5.15 1 5.15 1 7.30 1 2.265 1 1 3.30 1 2.265 1 1 3.30 1 2.265 1 1 3.30 1 2.563 1 3.30 1 2.563 1 3.30 1 2.563 1 3.30 1 2.563 1 3.30 1 2.563 1 3.30 1 2.563 1 3.30 1 2.563 1 3.30 1 2.563 1 3.30 1 2.563 1 3.30 1 2.563 1 3.30 1 2.563 1 3.30 1 2.563 1 3.30 1 2.563 1 3.30 2 2.563 1 3.30 2 2.563 1 3.30 2 2.563 1 3.30 2 2.563 1 3.30 2 2.563 1 3.30 2 2.563 1 3.30 2 2.563 1 3.30 2 2.563 1 3.30 2 2.563 2 3.00 2 2.00	1 0.62 1 0.75 1 1.50 1	1 6,96 1 7,39 1 5,47 1 6,39 1 5,47 1 6,39 1 5,47 1 6,39 1 5,97 1 6,47 2 9,33 8,9 1 3,21 1 6,99 1 1 6,97 1 6,47 2 9,33 8,9 1 3,21 1 6,92 2 8,68 1 7,92 2 9,72 3 8,41 1 8,52 1 8,53 1 1,53
	Ternstroenia gymanthera Arisaema servica de Arisaema servica Myraine aeguini Eurya japonica Camellia esasanqua Camellia esasanqua Psychotria nutra Arachniodes aristata Psychotria nutra Arachniodes aristata Psychotria espens Dryopteria sordidjees Rhaphiolopis indica Castanopia siaboldii Ouercus salicina Castanopia siaboldii Ouercus salicina Custanopia siaboldii Ouercus salicina Custa pianonica Litsea acuminata Litsea japonica Ardisa isaboldii Cleyera japonica Camellia esasanqua Vernicia cordata Eurya aponica Camellia esasanqua Vernicia cordata Camellia esasanqua Vernicia cordata Eurya japonica Camellia esasanqua Vernicia cordata Eurya japonica Camellia esasanqua Vernicia cordata Camellia esasanqua Vernicia cordata Litsea scuminata Lithocarpus edulis Lithoc	(living mature leaf, browse) (living mature leaf, fren) (living mature leaf, fren) (fallen flower, litter) (fallen flower, leaf, flower) (fallen flower, leaf, flower) (fallen flower, leaf, flower) (fallen flower, leaf, flower) (living mature leaf, flower) (living mature leaf, frower)	2006 winter 2006 w	1 354 1 343 1 295 1 351.35-1.66 - 1.39 2 1 55.68 1 295	1 8.58 1 1.98 1 7.16 1 19.98 1 7.16 1 19.98 1 7.16 1 19.99 1 7.16 1 19.99 1 10.14 18.29-11.41 2 8.48 8.15-8.66 1 10.53 1 6.41 1 10.53 1 6.41 1 10.53 1 6.41 1 10.53 1 7.19 1 10.53 1 9.49 1 11.67 1 13.31 1 9.49 1 1 18.74 1 8.92 2 1.347 1 1 8.92 2 1.347 1 1 8.92 2 1 8.20 2 1 8.20 2 1 8.20 2 1 8.30 2 2 9.50 2 1 8.30 2 1 7.72 2 1 7.14 2 1 7.55 2 2 6.85 2 8.35 2 8.40 2 2 8.85 2 8.35 2 8.41 2 8.82 2 6.85 2 5.91 2 8.00	1 12.30 1 24.70 1 17.98 1 24.70 1 17.98 1 14.95-20.15 1 14.71 1 10.17 1 10.17 1 10.17 1 10.17 1 10.17 1 10.17 1 10.17 1 10.17 1 10.17 1 10.17 1 10.17 1 10.17 1 14.83 1 18.24 2.04-9.21 2 8.62 3.04-9.21 2 8.62 3.04-9.21 2 8.62 3.04-9.21 2 8.62 3.04-9.21 1 13.67 1 1 17.39 1 4.78 1 8.27 1 4.74 1 1 4.74 1 1 4.74 1 1 4.74 1 1 8.29 1 4.61 1 1 1.74 1 8.21 1 9.29 1 1 1.18 1 8.21 1 1 9.29 1 1 1.18 1 1 1.98 2 1 1.70 3 2 1.71 3 3 1.71	1 30.18 1 16.79 3 24.32 21.87-26.30 1 24.68 1 35.80 23.91-24.18 2 24.04 23.03.19-24.18 2 24.04 23.03.19-24.18 2 23.61 19.42-27.80 2 23.61 19.42-27.80 2 23.61 19.42-27.80 1 21.35 2 2.61 19.42-27.80 1 21.35 2 2 3.61 19.42-27.80 1 21.35 2 2 3.61 19.42-27.80 1 20.27 1 21.36 2 2 36.73 25.75 2 36.73	1 6.27 2 11.86 11.29-12.42 2 11.86 11.29-12.42 1 13.52 1 18.87 1 13.67 1 13.67 1 12.59 2 14.71 13.46-14.93 2 14.26 14.01-14.50 1 15.57  1 12.59 2 19.98 19.53-20.43 2 26.93 25.72-28.13 1 12.33 1 20.55 1 12.63 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 42.09 1 33.97 2 39.03 38.19-39.87 1 43.51 1 44.57 2 39.03 38.19-39.87 1 43.51 1 14.57 1 32.26 2 7.42 6.85-7.99 2 13.95 10.78-17.12 1 77.86 1 11.86 1 13.48 1 19.48 1 13.48 1 19.48 1 13.48 1 19.48 2 6.31 24.25-29.47 1 12.89 2 23.95 16.35-31.56 2 23.95 16.35-31.56 2 23.78 23.11-24.44 1 18.69 2 23.95 16.35-31.56 2 24.79 3.08-6.50 6 45.65 44.21-48.44 3 30.61 3 30.6-6.50 6 45.65 44.21-48.44 3 30.61 3 30.6-6.50	1 1.35 1 7.63 3 4.94 4.66-5.44 1 7.63 3 4.94 4.66-5.44 1 12.34 1 6.14 1 12.34 1 3.35 1 3.34-1.39 1 3.35 1 3.34-1.39 1 3.35 1 3.34-1.39 1 3.35 1 3.34 1 3.35	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1.50 1 1 1.50 1 1 1.50 1 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6,96 1 7,39 1 5,47 1 6,33 7,82 7,2 1 6,33 7,82 7,2 1 6,33 7,82 7,2 1 6,33 7,82 7,2 2 9,33 6,9 1 0,30 1 1,00 1 1,
	Ternstroenia gymanthera Arisaema servica Marisaema Mar	(living mature leaf, browse) (living mature leaf, litter) (fallen from leaf, litter) (fallen brown leaf, browse) (living mature leaf, from)	2006 winter 2006 w	1 354 1 343 1 295 2 135 1,35-1.66 2 1397 5 061 048-074 2 060 055-0.65 1 295 1 295 1 342 2 275 2,41-3.09 1 132 2 215 1,36-2.08 1 133 1 5.36 1 133 1 5.36 1 133 1 5.36 1 133 1 5.36 1 133 1 5.36 1 1 134 1 135 1 1 135 1 1 135 1 1 135 1 1 135 1 1 135 1 1 135 1 1 135 1 1 135 1 1 1 135 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 8.58 1 1.98 1 7.16 1 19.98 1 7.16 1 19.98 1 7.16 1 19.97 1 10.14 1 19.97 1 10.14 1 10.97 1 10.14 1 10.97 1 10.14 1 10.97 1 10.14 1 10.97 1 10.14 1 10.97 1 10.14 1 10.97 1 10.14 1 10.97 1 10.14 1 10.97 1 10.14 1 10.97 1 10.14 1 10.97 1 10.14 1 10.97 1 10.14 1 1	1 12.30 1 24.70 1 17.98 1 24.70 1 17.98 1 14.97 2 11.70 2 12.70 2 12.70 2 12.70 2 12.70 2 18.62 2 19.66 12.10 2 14.83 2 18.62 2 8.62 0.4-9.21 2 8.62 0.4-9.21 2 8.62 0.4-9.21 3 8.62 0.4-9.21 3 8.62 0.4-9.21 3 8.62 0.4-9.21 3 8.62 0.4-9.21 3 8.62 0.4-9.21 3 8.62 0.4-9.21 3 8.62 0.4-9.21 3 8.62 0.4-9.21 3 8.62 0.4-9.21 3 8.62 0.4-9.21 3 8.62 0.4-9.21 3 8.62 0.4-9.21 3 9.59 1 10.16 2 1.17 13.47-14.88 2 12.92 12.82-13.02 1 11.86.71 1 13.99 1 1 18.67 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 30.18   16.79   24.62   18.726.30   1 24.68   1 35.80   2 43.22   18.726.30   1 24.68   1 35.80   2 43.64   2 39.1-24.18   5 28.24   27.97-29.35   2 12.68   30.97-36.41   1 40.63   3 1.64   2 1.65	1 6.27 2 11.86 11.29-12.42 1 13.52 1 18.87 1 13.52 1 18.87 1 13.52 1 18.87 1 13.52 1 18.87 1 12.59 1 14.20 1 15.57 1 1 12.59 2 19.98 19.53-20.43 2 26.93 25.72-28.13 1 12.33 2 26.93 25.72-28.13 1 12.33 1 20.52 1 14.81 1 20.52 1 14.86 1 12.59 1 14.85 1 1 20.52 1 1 14.85 1 1 20.52 1 1 14.85 1 1 20.85 1 1 20.85 1 1 20.85 1 20.95	1 1.35 1 7.63 3 4.94 4.66-5.44 1 7.63 1 7.63 3 4.94 4.66-5.44 1 12.54 1 6.14 1 12.54 1 13.64 1 13.24-1.39 1 13.68 1 13.24-1.39 1 10.58	1 0.62 1 0.75 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1.50 1 1 1 1 1.50 1 1 1 1 1.50 1 1 1 1.50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6,96 1 7,39 1 5,47 2 1 6,39 1 5,47 2 1 6,39 2 5,00 2 5,00 2 5,00 3 5,0
	Ternstroenia gymanthera Arisaema servica eguina Moraine aguini Eurya japonica Camellia sasanqua Distylum racemosum Distylum racemosum Distylum racemosum Arachniodes aristata Psychotria sergenso Dryopteris sordidjess Maphicolegis indica Rhua succedanea Melia azedarach Elescocapus sylvestris Myrica rubra ideologis indica Elescocapus sylvestris Myrica rubra ideologis Elescocapus sylvestris Elescocapus sylvestris Elescocapus sylvestris Cameratica Eurya emarginata Dicranopteria Ilmeratica Eurya ideologis Control Collegera japonica Ardisa isteboldii Ouercus salicina Unicarachi Eurya japonica Eurya emarginata Eurya japonica Collegera japonica Stephania japonica Eurya emarginata Eurya japonica Camellia sasangua Vernicica cordata archinoides aristata Eurya japonica Vernicia cordata Archinoides aristata Eurya japonica Vernicia cordata Purusu jamasakura Swida macrophylla monocot sp. Hibiacus makinci Lithocapus eduilia total littora Eurya emarginata Melia azedarach Melia azedar	(fiving mature leaf, browse) (fiving mature leaf, fron) (fiving mature leaf, fitter) (fillen froner, fitter) (fiving mature leaf, fitter) (fiving mature leaf, froner) (fiving mature leaf, fitter) (fiving mature leaf, frone) (fiving mature leaf, frone) (fiving mature leaf, froner)	2006 winter 2006 w	1 354 1 343 1 295 3 155 1,35-1.66 - 138* 5 139-1.66 - 139* 5 061 048-0.74 2 060 055-0.65 1 295 1 295 2 060 055-0.65 1 295 2 309 294-324 2 2.75 2,41-3.09 1 251 1 342 1 251 1 251 1 251 1 353 1 5.36 1 338 1 5.36 1 338 1 348-359 1 116 1 107 1 156 1 156 2 197 191-202 2 181 2 181 2 2 187 191-202 2 181 2 2 181 2 2 382 3 2 382 3 2 382 3 2 382 3 2 382 3 2 382 3 2 382 3 2 382 3 2 382 3 2 382 3 2 382 3 2 382 3 2 382 3 2 382 3 3 3 46-359 1 116 1 1098 2 3 582 3 582 3 582 3 582 3 46-359 1 116 1 198 1 172 2 186 1 172 2 3 312 209-415 1 177 2 2 186 145-186 1 177 1 178	1 8.58 1 1.98 1 7.16 1 19.98 1 7.16 1 19.98 1 7.16 1 19.97 1 10.18 1 10.99-11.17 1 10.18 1 10.99-11.17 1 10.18 1 10.99-11.17 1 10.18 1 10.99-11.17 1 10.18 1 10.99-11.17 1 10.18 1 10.99-11.17 1 10.18 1 10.18 1 10.19 1 10.18	1 12.30 1 24.70 1 17.98 1 24.70 1 17.98 1 14.97 1 19.98 1 14.97 1 10.07 2 25.55 20.88-28.55 2 19.96 12.10-28.01 1 14.83 1 18.24 2 18.62 20.4-9.21 2 8.62 20.4-9.21 2 8.62 20.4-9.21 3 8.62 20.4-9.21 3 8.62 20.4-9.21 3 8.62 10.4-8.7 1 10.79 1 17.39 1 14.74 1 14.74 1 1 14.74 1 1 14.74 1 1 14.74 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 30.18   16.79   24.62   19.72   10.7	1 6.27 2 11.86 11.29-12.42 2 11.86 11.29-12.42 1 13.52 2 14.31 13.46-14.98 2 14.71 94.5-24.42 2 14.26 14.01-14.50 1 15.57 1 12.59 2 19.98 19.53-20.43 2 8.93 25.72-28.13 1 22.30 1 20.52 1 14.81 1 12.66 1 30.68 1 30.68 1 38.89 1 33.97 2 93.03 38.19-39.87 1 43.51 1 12.66 1 30.68 1 30.68 2 19.99 2 13.99 2 13.99 2 13.99 2 13.95 1 14.51 1 14.55 1 14.55 1 14.55 1 14.55 1 14.55 1 12.61 1 11.82 2 19.03 38.19-39.87 1 43.51 1 14.51 1 14.51 1 14.51 1 14.51 1 14.51 1 12.61 1 13.54 1 19.48 1 22.32 1 16.06 1 13.54 1 19.48 2 2 3.90 2 3 3.91 3 2 2.31 1 12.89 2 2 3.90 2 3 3.95 1 13.97 1 13.95 1 14.55	1 1.35 1 7.63 3 4.94 4.66-5.44 1 7.63 1 7.63 3 4.94 4.66-5.44 1 1.24 1 1.265 13.34-13.97 1 1.37 1 1.38 1 2.98 1 10.58 1 10.58 1 2.29 1 10.29 1 10.29 1 10.29 1 10.29 1 10.29 1 10.29 1 10.29 1 10.29 1 10.29 1 10.29 1 10.29 1 10.29 1 10.29 1 10.29 1 10.29 1 10.38 1 2.98 1 3.60 1 3.60 1 3.60 1 3.70 1 10.39 1 10.3	1 0.62 1 0.75 1 1.50 1	1 6,96 1 7,39 1 5,47 1 7,39 1 5,47 1 6,38 2 5,013,451 1 6,39 1 6,39 1 1 6,39 1 1 6,39 1 1 6,39 1 1 6,39 1 1 6,39 1 1 6,39 1 1 6,39 1 1 6,39 1 1 6,39 1 1 6,39 1 1 6,39 1 1 6,39 1 1 6,39 1 1 6,39 1 1 6,39 1 1 6,39 1 1 7,7
	Temstroenia gymanthera Arisaema serratum Myraine aeguini Eurya japonica Comellia easangua Comellia easangua Comellia easangua Comellia easangua Comellia easangua Psychotria nutra Arachniodes aristata Psychotria indra Arachniodes aristata Psychotria serdidjess Physhotria expens Dryopteria sordidjess Elaeocarpua sylvestris Myrica rubra Elaeocarpua sylvestris Myrica rubra Castanopais isidoolid Cuercus salicina Castanopais isidoolid Cuercus salicina Cuercus salicina Cuercus salicina Cuercus salicina Cuercus salicina Cuercus japonica Ardisa isaboldi Cuercus salicina Cuercus japonica Ardisa isaboldi Cuercus salicina Cuercus japonica Ardisa saloolid Cuercus salicina Cuercus japonica Carpulia japonica Carpulia salicina Cuercus japonica Cuercus salicina Cuercus japonica	(living mature leaf, browse) (living mature leaf, fron)  (fallen green leaf, litter) (fallen flower, litter) (fallen flower, litter) (fallen prilow leaf, fitter) (fallen prilow leaf, litter) (fallen prilow leaf, litter) (fallen prilow leaf, litter) (living matle leaf, litter) (fallen brown leaf, litter) (fallen brown leaf, litter) (fallen brown leaf, litter) (living mature leaf, browse) (living mature leaf, fron) (living mature leaf, fron) (living mature leaf, litter) (fallen prown leaf, litter)	2006 winter 2006 w	1 354 1 343 1 295 1 343 1 295 2 036 1048-0.74 2 036 1048-0.74 2 056 1048-0.74 2 056 1048-0.74 2 056 1048-0.74 2 056 1048-0.74 2 057 2 41-309 1 251 1 342 2 175 241-309 1 1251 1 163 1 126 1 163 1 126 1 163 1 126 1 156 1 156 1 156 1 156 1 157 1 158 1 158 1 126 1 158 1 158 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 8.58 1 19.98 1 7.16 1 19.98 1 7.16 1 9.97 1 19.94 2 11.00 (1.99-11.17 1 10.14 (8.22-11.41 2 2 4.45 (1.0-8.96 1 10.53 1 6.41 2 9.45 8.00-10.90 2 16.33 15.70-16.96 1 4.91 1 8.49 1 11.67 1 30.31 1 8.49 1 11.67 1 30.31 1 11.67 1 30.31 1 1.167 1 30.31 1 1.167 1 30.31 1 1.167 1 30.31 1 1.167 1 30.31 1 1.167 1 30.31 1 1.167 1 30.31 1 1.167 1 30.31 1 1.17 1 30.31 1 3.49 2 8.20 8.16-8.25 1 7.93 1 8.17 1 9.59 1 6.51 1 7.93 1 8.17 1 9.59 1 6.51 1 7.93 1 8.17 1 9.59 1 6.51 1 7.93 1 8.17 1 9.59 1 6.51 1 7.93 1 8.17 1 9.59 1 6.51 1 7.93 1 8.17 1 9.59 1 6.51 1 7.93 1 8.17 1 9.59 1 6.51 1 7.93 1 8.17 1 9.59 1 6.51 1 7.93 1 8.17 1 9.59 1 6.51 1 7.94 1 9.59 1 6.51 1 7.94 1 9.59 1 6.51 1 7.94 1 9.59 1 6.51 1 7.94 1 9.59 1 6.51 1 7.94 1 9.59 1 6.51 1 7.94 1 9.59 1 6.51 1 7.94 1 9.59 1 8.52 1 3.42 1 1.99-14.85 1 7.14 1 7.14 1 7.55 1 8.82 2 8.68 8.59-1.84 1 25.82 2 8.68 8.59-1.80 1 1.14 1 7.55 1 8.82 2 8.68 8.59-1.80	1 12.30 1 24.70 1 17.98 1 24.70 1 17.98 1 14.97 1 19.80 1 14.71 1 10.07 1 18.24 2 2 2.55 20.98-28.55 2 3 9.66 2.10-28.01 1 14.83 1 1 18.24 2 8.62 20.49-9.21 2 8.62 20.49-9.21 2 8.62 20.49-9.1 1 10.79 1 17.39 1 17.39 1 18.37 1 6.64 1 14.74 1 6.67 1 6.10 1 4.78 1 8.21 1 19.80 1 1	1 30.18   16.79   24.68   17.24   18.25   18.25   19.24   18.25   19.24   18.25   19.24   18.25   19.24   19.25   19.2	1 6.27 2 11.86 11.29-12.42 2 11.86 11.29-12.42 1 13.52 1 18.67 1 18.67 1 18.67 2 14.71 13.46-14.98 2 14.72 18.46-24.42 2 14.26 14.01-14.50 1 15.57 2 19.98 19.53-20.43 2 26.93 25.72-28.13 1 12.33 2 26.93 25.72-28.13 1 12.66 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 30.68 1 12.66 1 30.68 1 30.68 1 12.66 1 30.68 1 30.68 1 30.68 1 12.71 1 12.86 1 30.86 1 12.71 1 12.86 1 30.86 1 30.86 1 42.09 1 12.86 1 30.86 1 42.09 1 12.86 1 30.86 1 42.09 1 12.86 1 30.86 1 42.09 1 33.99	1 1.35 1 7.63 3 4.94 4.66-5.44 1 7.63 1 7.63 3 4.94 4.66-5.44 1 12.35 1 7.63 1 7.63 1 7.63 1 7.63 1 7.63 1 7.63 1 7.63 1 7.63 1 9.24 2 1.07 18.14-23.99 2 6.94 4.87-9.01 1 20.29 1 1.92 1 9.24 1 1.92 1 1.93 1 1.03	1 0.62 1 0.75 1 1.50 1 0.75 1 1.50 1 0.75 1 1.50 1 0.75 1	1 6,96 1 7,39 1 5,47 1 6,39 1 5,47 1 6,39 1 6,39 1 6,39 1 6,39 1 6,47 1 8,30 1 8,30 1 8,31 1 8,30 1 3,21 1 8,30 1 3,21 1 8,30 1 3,21 1 8,30 1 3,21 1 4,08 1 1 4,08 1 1 4,08 1 1 4,08 1 1 5,53 1 2 8,41 1 7,02 2 9,72 8,10 1 8,03 1 7,04 1 7,71 1 7,11 1 7,12 1 7,13 1 7,14 1 7,15 1 8,15 1 8,03 1 7,04 1 7,71 1 7,17 1

Available Item\* (Ir=85)

2.58 0

4.1. Flood Item in each feeding plot. A other available Item than food Item in each feeding plot.

4.2. Number of locations (plota) sampled.

4.3. Assigned value of fact content of the same Item collected in winter 2005.

4.0 beer fed on green leaves attached to a fallen branch, however we sampled green leaves from a living tree.

4.5. Samples for fat were collected in spring 2007.

4.6. Assigned value of fat content of the same Item collected in summer 2005.

4.7. mean value of this table.