FAUNAL ANALYSIS OF UPPER FORT GARRY: SOCIAL AND ECONOMIC IMPLICATIONS

by

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ABSTRACT

This thesis examines the faunal remains recovered from an archaeological site, Upper Fort Garry (DILg-21), located in Winnipeg, Manitoba. Excavations recovered two privy/refuse pits, located within the Hudson's Bay Company post. Over five thousand animal bones were recovered and analyzed. The objectives of this analysis were threefold: to reconstruct the pattern of animal utilization during the occupation of Upper Fort Garry, to compare this reconstruction with historical and archaeological records of animal use in the Red River Settlement, and to examine the relationship between diet and economic position.

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Excavations at Upper Fort Garry were carried out during the summers of 1981, 1982, and 1983 under the direction of Dr. Greg Monks, with Biron Ebell and Ellen Robinson as crew chiefs. The field crews consisted of students from the Universities of Winnipeg and Manitoba. The bones were identified using the faunal collections at the University of Manitoba, the Museum of Man and Nature in Winnipeg, the University of Toronto, and the Royal Ontario Museum.

I would also like to acknowledge and thank the Historic Resources Branch for access to the Delorme House and St. Peter's Church Dynevor collections. Thanks are also extended to K. David McLeod and Elisa Hart for answering innumerable questions about the aforementioned sites.

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Chapter I

INTRODUCTION

In general, faunal analysis in archaeology played a minor role until the middle of the twentieth century. Bones, if collected and kept, were sometimes identified to species and added as an appendix to the back of the site report. Later, it was realized that one could learn more from bones than simply what kinds of animals were present. For example, information could be gained concerning the environment, climate, vegetation, subsistence and diet, and the date of the site through extirpated and extinct species, and the technology of the inhabitants of the site.

The situation concerning faunal analysis in historic archaeology was even less advanced. The first faunal report from an historic site was published by Parmalee in 1960 (Jolley, 1983: 64). Again, the reports took the form of basic laundry lists of species. As late as the mid-1970s comments such as the following were being made in the literature:

> Time did not permit us to make a thorough study of these remains [fauna] and as this was certainly not representative of a total population, it was felt that there was no need (Hanson and Hsu, 1975: 164; in Jolley, 1983: 66).
>
> Detailed identification and analysis of this quantity of bone would be a lengthy process and would not be of sufficient value to justify the time spent (Stephensen, 1974: 32b; in Jolley, 1983: 66).
>
> At first [bone] was considered merely an unpleasant inconvenience. The bone was thrown out with no more than a

> brief note on the unit-square-sheet that much animal bone was encountered in the excavation of that level (Brose, 1975: 78).

Only recently has faunal analysis been seriously undertaken in historical archaeology. These current studies are reflecting a new approach. Faunal analysts are studying species and their frequency to make statements about ethnicity, social and ideological systems, economic variability, and acculturation (Lyman, 1987).

In keeping with this trend, this study will investigate economic variability among the residents of the Red River Settlement as reflected by the faunal food remains.

The objectives of this study are threefold:

1. To reconstruct the pattern of animal utilization during the occupation of Fort Garry with respect to the relative importance of species and butchering practices employed;
2. To compare this reconstruction with historical and archaeological records of animal use in the Red River Settlement and surrounding areas during the mid-1800s; and
3. To examine the relationship between diet and economic position by identifying patterns within the reconstruction and subsequent comparisons which may reflect the economic position of the consumers.

1.1 LITERATURE REVIEW

There is a growing trend in archaeology towards the manipulation of data to investigate past social and economic relationships. Historic Sites faunal analysis has lent itself well to this kind of study, but results for the most part have been inconclusive due primarily to the smallness of the sample site. A variety of approaches have been taken.

Joanne Bowen (1975), working at Mott Farm, a rural farmstead in Portsmouth, Rhode Island, attempted "to define the social and economic context of the site and ... interpret the uses of domestic animals" (Bowen, 1975: 12). While providing a good description of the various economic uses of animals (breeding, milk, wool), she fails to interpret this information or to discuss it in terms of the social and economic context of the site as a whole.

Other descriptive studies were conducted by Brose (1967) and Balcom (1981). Brose (1967) looked at the refuse dump of the Fort Mackinac garrison at Mackinac Island, Michigan. The site covered a span of twenty years and a vast amount of material was recovered. Brose attempted to determine status differences between officers and soldiers. Although there are some comments regarding these differences, most of the attention is spent on identifying changes through time in the diet and relating this to the changes in the military importance of Fort Mackinac.

Balcom described the subsistence base for the occupants of Port Severn, discussing which foodstuffs were imported and which were

obtained locally. She considers some analytical problems, such as garbage disposal patterns and why certain species are not represented in the archaeological sample.

Guilday (1977), working at Fort Ligonier, and Wilson and Southwood (1976), working at Fort George on the Niagara, deal primarily with analytical problems encountered by historical faunal analysts. Such problems include recognizing salt pork, beef, or mutton in the archaeological remains; whether the meat was processed without bones; and identifying the remains of animals slaughtered at the site as opposed to those slaughtered elsewhere and brought to the site.

In partial solution to these problems, Lyman (1977) analyzed butchering marks on domestic animal bones from Fort Walla Walla. This analysis revealed non-functional, possibly individual and functional variation in the butchering pattern (Lyman, 1977: 67). Lyman was able to identify a butchering pattern followed at the site which is different from that followed today. The butchering data also indicated that "cows, sheep and pigs were obtained in butchered form" (1977: 67).

The aforementioned studies provide good descriptions of the diets enjoyed by the occupants of the various sites. They also give consideration to some of the analytical problems encountered. However, little if no attempt is made at using faunal data to learn about the socioeconomic structuring at the sites. While Otto (1979) and Rathje and McCarthy (1979) have examined variations in social, ethnic, and economic position using ceramics and modern material culture (garbage) respectively, few researchers have made the attempt via faunal analysis. Reports in which this subject has been broached are discussed below.

Losey (1973) analyzed the remains from Fort Enterprise which was Captain John Franklin's winter outpost. The goal of this study was to elucidate the social division and cultural differences between the officers (Englishmen) and the Canadian voyageurs (Cree-Metis). Losey looked at the bone frequencies in different middens. Although there was little documentary evidence concerning diet, there were indications of social differences between the "Canadians" and the "gentlemen." Based on the information gathered, Losey hypothesized that

> If a cultural preference regarding the utilization of specific portions of caribou taken at Fort Enterprise existed between officers [Englishmen] and men [Canadians], then a concomitant difference in the relative distribution of caribou remains should exist between the two related middens (Losey, 1973: 137).

The results of this study, however, were inconclusive because the faunal sample was too small.

Herskovitz (1978) studied the dietary reflections of socioeconomic or class differences at Fort Bowie, a nineteenth-century U.S. army outpost in Apache Pass. He felt that the faunal data seemed "to indicate the purchase of more expensive cuts for the Army officers and less expensive cuts for the enlisted men" (Herskovitz, 1978: 137). The difference in price between different cuts of meat was influenced by culturally derived preferences and the physiological quality of the meat. In his discussion he considers the parts of animals in demand, butchering techniques, and the tools employed. The distribution of the bones is related to the spatial distribution of the buildings and their functions. He notes that in the bachelor officers' quarters, hind quarter meat cuts (the most desireable) predominate. In other areas of the fort, the front quarter cuts predominate.

Lesley Drucker (1981), using the same basic premises as Herskovitz, analyzed the household food remains from a slave occupation at Spiers Landing, South Carolina. He believed that the analysis of a household's food remains could be an important tool in defining economic status (Drucker, 1981: 62). He found that at the Spiers Landing site seventy-five percent of the faunal assemblage was composed of poor quality meat cuts (metapodial, hoof, and cranial elements). The majority of the high quality meat elements were from wild resources and not from domesticated resources. No inter-site comparisons were made and hence no standardized patterning was identified.

Two reports dealt specifically with socioeconomic and sociocultural variability. In "Diet and Foodways of Eighteenth-Century Spanish St. Augustine," Reitz and Cumbaa (1983: 151-227) were interested in studying how social status, ethnic traditions, and acculturation processes were reflected in faunal remains. In their preliminary research, the authors conducted a literature search for references as to the diet of people in the St. Augustine community, available food resources, and the traditional diets of people in Spain, New Spain, and the southwestern United States. The faunal remains from six households of known status were examined. In the analysis, Reitz and Cumbaa examined the diversity of species and the cost expenditure involved in killing and preparing the various species.

Definite differences were found within the faunal assemblages for the six houses. In general, there was a "clear selection in favor of species that could be exploited using mass capture or intended devices,

providing a good return for minimal efforts" (Reitz and Cumbaa, 1983: 1979).

Domestic animals made up the largest percentage in all of the assemblages. However, it appears that upper class (Criollo and Peninsular) families used the most wild terrestrial biomass, while Mestizo families used the least. The middle class families enjoyed more access to the domestic fauna. Marine resources were utilized more by Mestizo families than by the upper class, hispanic families.

The diets of all three groups showed adaptations to the new environmental conditions. "The Indian woman's household deviated from a purely aboriginal diet with the incorporation of several different habitats" (Reitz and Cumbaa, 1983: 181). The Criollo and Peninsular diets showed substantial modifications from the Old World pattern in that there was a definite preference for cattle and pigs as opposed to sheep. As well, there was an increased use of wild terrestrial species and the addition of domestic reptiles (Reitz and Cumbaa, 1983: 181).

In this analysis, the differences in species use were interpreted as reflective of status differences. The upper class diet was found to be more expensive to maintain given the local environment. No work was done on the aspect of cost and "quality" with regard to eighteenth-century standards as indicated by different carcass portions.

Another report by Shulz and Gust (1983) dealt extensively with economic position. The authors excavated residential and mercantile sites from nineteenth-century Sacramento and used the faunal remains to examine butchering units and costs of nineteenth-century beef cuts.

> The resultant ordinal ranking of cuts ... was then used to assess the economic value of the meat represented by the faunal debris in the ... deposits and to determine the accuracy with which this mirrors the relative socioeconomic placement of the depositing populations, as determined from the historical record (Schulz and Gust, 1983: 48).

They worked with a good sized sample of butchered cow bone and were able to show variations in cut frequencies among the four identified sites. However, they interpreted these economically-based differences in terms of social positioning without providing the theoretical rationale. At a more basic level were problems with their analytical methodology. In all calculations, the number of identified specimens was used; no attempt was made to determine the minimum number of times each beef cut was represented. The number of bones in each type of beef cut varies; frequencies per cut may be skewed depending on the number of bones in each type of cut (Lyman, 1987: 59-60).

To summarize, the reports to date have documented several approaches to study the relationship between the faunal material and the social and/or economic position of the consumers. The work done by Balcom (1981), Bowen (1975), Brose (1967), and Lyman (1977) are all basically descriptive in nature, outlining species utilized, body portions preferred, and changes in diet over time. Others, such as Losey (1973), Herskovitz (1978), Drucker (1981), Schulz and Gust (1983), and Reitz and Cumbaa (1983) were more practical in their application, taking archaeological collections and attempting through quantification to give more insight into diet, economic position and social position. Special attention was paid to butchering techniques, the quality of meat represented by the cuts, and the expense of these cuts. Analytical

problems encountered and theoretical implications concerning osteo-archaeological methods and interpretations were considered by Guilday (1978), Wilson and Southwood (1976), and Uerpmann (1973).

The review of literature pertaining to faunal analysis and its role in historical archaeology clearly illustrates the theoretical and methodological advances which have been made in this field over the past twenty years. Of particular importance is the use of faunal analysis in exploring the socioeconomic structuring of society. However, it is also apparent from the literature that much work still needs to be done. Problems of sample size, data interpretation, and accurate economic assessment must be overcome.

1.2 THEORETICAL ORIENTATION

Archaeology is a subdiscipline of anthropology; both have as their ultimate goal to better understand human behavior and cultures. Unlike anthropology, however, which deals with living people, archaeology concerns itself with the material remains left by people.

One of the major premises in archaeology is that "specific patterns in behavior can be directly related to specific patterns in material culture" (Rathje and McCarthy, 1979: 261). As Binford so aptly says, "we cannot dig up a social system or ideology which functioned together with [the] more behavioral elements within the appropriate cultural subsystems" (Binford, 1962: 218-219).

On the other hand, some archaeologists (Hodder, 1982; Schuyler, 1978) believe that human behavior and its relationship to depositional patterns is not the best approach, perhaps one should look at their symbolic associations. Although artifacts are the primary unit of archaeological research, they cannot be studied as an entity separate from meaningful cultural context. The premise behind the contextual approach is that "a society is made up of interrelated parts and we can explain one component by showing how it works in relation to other components" (Hodder, 1982: 2). Within this approach, "material culture can be examined as a structured set of differences. This structured symbolizing behavior has functional utility, and it must be understood in those terms" (Hodder, 1982: 7). These structures and symbolic associations derive their meaning from the cultural context.

> The concern must be to examine the role of material culture in the ideological representation of social relations. Excavated artifacts are immediately cultural, not social, and they can inform on society only through an adequate understanding of social context ... The daily use of material items within different contexts recreates from moment to moment the framework of meaning within which people act (Hodder, 1982: 10).

Schulyer (1978: 30) suggests that historic sites archaeology can be used in social, economic, and ideological interpretation. He defines historical archaeology as "the study of the material remains from any historic period [that is] a period in which the cultures in question have a documentary record and that writing is having a full impact both on the cultures being studied and on the scholarship of the investigation" (Schulyer, 1978: 27). On the other hand, historic sites archaeology is "the study of the material manifestation of the expansion of European culture into the non-European world starting in the 15th

century ending with industrialization of the present depending on local conditions" (Schulyer, 1978: 28). Thus, it deals with a specific historical subject that has temporal, spatial, and cultural boundaries.

Hence, both historical and historic sites archaeology have control over artifactual data as well as documentary data. In this sense, they are more holistic than history or prehistoric archaeology because the traditional data bases are broader (Schulyer, 1978: 28). This increases the archaeologist's explanatory power of observations and interrelationships, thereby strengthening the explanations within the contextual framework.

For these reasons, a contextual approach is perhaps the best means for assessing and explaining economic variability. The faunal material was selected for this analysis for several reasons. Firstly, a large amount of bone was recovered, it was in excellent condition, and data control was good. Secondly, food remains provide an excellent data base from which to study economic structuring. Diets are universally characteristic in that they are culture-specific and sometimes even specific to different members within a culture group. To coin a phrase, "one is what one eats" (Wing and Brown, 1979: 11). According to Daly,

> The remains of food animals have passed through the cultural filter ... They do not constitute a chance assemblage, nor is their presence in the site due to anything but human behavior (Daly, 1969: 146).

A number of factors influence the selection of animals to be exploited for subsistence. Firstly, there are culturally determined preferences. This includes such things as political regulations or

ceremonial food taboos. Secondly, individual tastes play a role in the selection of foodstuffs. Thirdly, there are a number of economic factors which come into play. It is this idea of economics which is extremely important. Economics is defined as "the study of human behaviour as it relates to scarce means, which have alternative uses; to given ends, such as maximization of income, usually employing price data in the comparison" (Gould and Rolb, 1964: 227).

If food items are viewed as economic goods - that is, they are useful, scarce and command a price in the market (Gould and Rolb, 1964: 227) - they should reflect the socioeconomic position of the consumers. One can hypothesize that people belonging to a higher socioeconomic level may be able to enjoy a diet which is more expensive to maintain given the local environment (Reitz and Cumbaa, 1983: 159).

> Expense may be calculated either as spending money to purchase food [and] hire the services of a hunter or fisherman or as expending calories to do the task personally. [Thus] prestigious foods might be those difficult to obtain because of monetary expense or because of caloric cost (Reitz and Cumbaa, 1983: 159).

In the archaeological evidence, this may be expressed through observable differences in the cuts of meat represented, the species represented in the sample, and the age of the butchered animal.

A trip to a local supermarket is evidence enough as to the variety and types of meat cuts and the corresponding prices. Whatever the reason, whether it be a better "grade" of beef or an item in high demand but with scarce supply, some cuts cost more to obtain. One may assume that the same thing happened in the past.

Bones can be classified into three grades:

1. The vertebral column (excluding the tail), upper leg bones and bones of the shoulder and pelvic girdle; these are the muscular parts of the body with high value meat;
2. The lower leg bones and skull (with brain and jaw musculature) and mandible (jaw musculature and tongue), ribs and sternum; medium value meat; and
3. face bones, tail, feet (including ankle joints); lowest value meat. (Uerpmann, 1973: 310).

Drawing from this classification it can be postulated that since retail meat cuts from different sections of the carcass are differentially ranked economically, the frequency of consumption of differently-priced cuts will vary with economic class of the consumers (Schulz and Gust, 1983: 45).

The types of species and the range of species represented in the sample may reflect economic positioning.

> Higher diversity may reflect either the wealth needed to purchase a wide variety of foods or the ability (or necessity) to exploit directly a wide variety of natural resources through familiarity with local conditions (Reitz and Cumbaa, 1983: 160).

Where a high diversity is found in lower socioeconomic sites, the majority of high quality meat elements should come from wild resources, suggesting that a significant portion of the most nutritious meat would be obtained from hunting and fishing (Drucker, 1981: 63).

Husbandry practices may reflect aspects of the economy, assuming that the age of slaughter can reflect differences in the quality of meat (Jolley, 1983: 73). Meat from young animals tends to be more tender and

succulent, and thus more desirable. However, the gross amount of meat product is less than from an older, larger animal, so in general the meat is more expensive to produce and purchase. The frequency of consumption of differently-priced cuts from younger as opposed to older animals, therefore, will vary with the economic position of the consumer.

Using these techniques, it is possible to assess the economic value of the meat represented. However, "the accuracy with which this mirrors the relative [economic] placement of the depositing populations must be determined" (Schulz and Gust, 1983: 48).

Several analytical problems must be dealt with. For instance, how does one identify pemmican, dried meat, and salt pork/beef in the archaeological remains? "Pemmican is made from meat that has been dried and beaten, then mixed with berries, tallow or fat" (Walker, 1982: 62). Therefore, in its edible form, no bones would be included, and thus no remnants would be found in the archaeological record. The same problem exists when dealing with salt pork. The literary evidence is of no help in clarifying this situation, as the sources often conflict. Concerning Fort Ligonier, Guilday said that salt pork left no archaeologically recoverable trace, implying that the meat was boned before it was barreled and that any pig bones found could mean either living animals or dressed carcasses (Guilday, 1977: 131). On the other hand, a document dating from 1766 from the commissary's office at Quebec states "it is your business to see that there are not too many hocks among the pork, four is as many as ought to be in a barrel" (Wilson and Southwood, 1976: 125).

Assessing the economic importance of individual species to the consumer's diet poses another problem. Simple bone frequencies, while providing the number of bones per species, are inaccurate indices of dietary importance (Grayson, 1978). It would be foolish to conclude that because the same number of rabbit and cow bones are present in a given sample that both contribute the same amount of nourishment to the diet and are thus of equal importance. "The value of a count of pieces per species is limited by the different meat quantity represented by each species and the nature of the fragmentation of its bones" (Uerpmann, 1973: 310).

Calculating biomass is an alternative procedure (Ewen, 1986). This technique involves using the weight of the archaeological bone in "an allometric formula to derive a proportionate quantity of biomass for the skeletal mass recovered" (Reitz and Cumbaa, 1983: 168). The degree of fragmentation of the bone is not a problem as it does not affect the accuracy of the measurements. However, the resulting biomass measurement "has no direct relationship either to original total body weight of the animal or to the portion of that total body weight consumed" (Reitz and Cumbaa, 1983: 168). Also, the weight of buried bones can change through time; thus, if burial conditions are different incorrect results may be obtained (Uerpmann, 1973: 311).

Determining the contribution of individual species to the consumers' diet and thus its economic importance is perhaps best done using a combination of methods. The calculation of the minimum number of individuals represented in a sample in conjunction with the

determination of edible meat estimates (White, 1967) can indicate the relative importance of each species. This estimate, while in proportion, will be grossly too low. One must also note that the difference between the number of finds and MNI increases as the size of the sample increases. Thus, samples of a similar size should only be used for comparisons (Uerpmann, 1973: 311).

Secondly, by identifying the body segment and the type of butchering cut, it is possible to assess the quantity of meat supplied. This can be done by classifying the bones into grades - parts of the body with high, medium, or low meat value, for example. This will provide a relative scaling of importance which can be used to assess economic value. This technique is especially effective where retail cost of meat cuts is known. The economic value of the meat reflects the consumption behaviour of the consumer.

At this point, it is appropriate to consider if and how economic position, as reflected by the economic variability in an archaeological deposit, can be related to social variability. In this thesis, the term "socioeconomic position" has been avoided.

> While this term and its synonyms (socioeconomic status, social status, and class differentation) connote some common-sensical notion about a person or group of persons' ascribed or attained position within a society relative to the positions of other members of that society, the concept seems sufficiently ambiguous in zooarchaeological contexts to be of limited and obscure explanatory value. (Lyman, 1987: 58).

By considering economic position and social class separately, it is possible to discuss the characteristics of each and examine their relationship. "Class" is an analytical category that may be applied to

arbitrarily defined groups. There are two types of classification possible: objective and subjective.

> Objective classification proceeds on the basis of directly measurable criteria such as income, property, education, occupation, and position of responsibility or power. Subjective classification uses popular evaluation criteria, usually via polls, and assumes the ordering of units by prestige rather than wealth or power (Monks, 1988).

The two types of classification are related because subjective judgements are based on objective criteria. According to sociologists, the objective criteria of class membership are variables such as income, occupation, property ownership, and education. All the objective criteria of class membership reflect objective economic differences between the analytical units (Monks, 1988).

Through archival and historical documents, it is possible to detect occupation and income as defining criteria of economic classes. Consumption and expenditure values are highly correlated with both occupation and income and can be used to detect prestige classes (i.e. social position or class). Thus, given the tight correlation between economic and prestige classes, and given the ability of prestige indices to reflect broad occupational groups, it is relatively safe to argue that prestige classes detected archaeologically correspond more or less directly with economic classes as described in historical documents on the basis of both occupation and income (Monks, 1988).

1.3 AIMS

This thesis will attempt to overcome the problems encountered by researchers in earlier studies, namely problems of sample size, data interpretation, and accurate economic and social assessment of the data. Over 5,000 bones will be identified and analyzed over the course of the thesis. This represents a sample size of over seventy percent; any results, therefore, should be statistically significant. A thorough examination of the social and economic structure of the Red River Settlement (RRS) and the Hudson's Bay Company (HBC) will be conducted. This extensive research should provide an excellent understanding of the time period and society in question, thereby allowing a more accurate interpretation of the cultural context from which the faunal collection was derived.

The bones will be identified as to species, noting anatomical elements and cultural and natural modification. Butchered bones will be closely analyzed with each bone being assigned to an appropriate meat cut. The minimum number of each meat cut represented will be calculated. Further archival research will be conducted to determine the economic value of each meat cut in the RRS market during the time period in question (1840s) and the faunal sample will be evaluated and interpreted using this data.

This approach allows for the collection to be interpreted within a cultural and temporal framework. Using the minimum number of cuts provides a more accurate picture of the makeup of the faunal sample than working with the number of identified specimens. This approach also

lends itself quite easily to an economic analysis. The meat yield per cut will not be calculated, nor will the cost-efficiency of each beef purchase, because it is not possible to demonstrate empirically that they are tightly correlated to purchasing power, income level, or economic class (Lyman, 1987: 62).

The major contribution this thesis hopes to make is at a methodological level. Although the historical data accumulated will be site-specific and temporally limited, a framework for the economic analysis of faunal samples will be established.

Chapter II

HISTORICAL BACKGROUND

This chapter will examine the development of agriculture and animal husbandry in the Red River Settlement during the period 1812, the beginning of Selkirk's colonization at Red River to 1850. This terminal date was selected for two reasons: it marks the introduction of farm machinery to the Valley and the privy deposits have been artifactually dated to the Sixth Regiment of Foot's stay at Upper Fort Garry from 1846 to 1848.

This chapter will also discuss the social context within which the artifactual data could be analyzed and outline the development of social and economic groups in the Settlement and Company. Special note will be made of the subsistence strategies of the community giving the kinds of food available locally for consumption.

2.1 AGRICULTURE IN THE RED RIVER SETTLEMENT

The British selected the junction of the Red and Assiniboine as the focal point of their fur trade operations in North America using it as the major administrative and supply point for outlying posts (Murray, 1967: 13-16). The development of agriculture in the Red River Valley was a logical step in the struggle for control of the Fur Trade.

In 1811, the Hudson's Bay Company accepted Thomas Douglas, Fifth Earl of Selkirk's proposal to establish a colony near the forks of the Red and Assiniboine Rivers (Miquelon, 1970: 10). Selkirk "wanted to resettle small farmers who had been forced off their land in Scotland and he believed that these settlers could provide agricultural supplies that would improve the position of the HBC in its struggle with the NWC" (Murray, 1967: 16-17).

The years immediately following saw several developments. The population increased substantially with the influx of settlers. The North West Company merged with the HBC in 1821 leaving the amalgamated Company in control of the major trade network in British North America and the United States. The Company sought to regulate and to discourage any private trading done with the United States outside the realm of the Company.

Although the HBC had helped to sponsor the first farming settlers in the valley, they soon realized that an expansion of agriculture would be detrimental to the fur trade (Murray, 1967: 21). Thus the Company discouraged additional immigration and hindered large-scale export of farm produce. They also encouraged the Metis to supply pemmican for fur trade operations thus reducing the local market for farm surpluses (Murray, 1967: 17).

In addition to the discouragement from the HBC, the settlers had to deal with locusts, early frosts and floodings. The flood of 1826 was especially trying, however, after the water receded the Settlers struggled to re-establish themselves.

A system of land distribution was developed with the arrival of the Selkirk Settlers. They were provided with ninety acre lots which measured 660 feet wide by 1.8 miles in length, and were allowed access to a ten acre wood lot on the East Side of the Red River (Murray, 1967: 35). Twenty four such lots were issued. The remainder of the lots in the Settlement were surveyed after Selkirk's death in 1820. These lots were of the pattern established in the St. Lawrence Valley and measured 660 feet wide by one and one-quarter mile. "The owners of river lots had the right to cut hay on the prairie for two miles beyond their surveyed lots. When the HBC took over the Selkirk estate in 1836, it resurveyed all of the lots at Red River and left them intact" (Murray, 1967: 35).

Not all land was purchased from Selkirk. In return for years of service, the HBC granted 100 acres to many of its employees (Murray, 1967: 35). Settlers of British descent lived primarily north of Upper Fort Garry but south of the Indian colony at St. Peters. The French Canadians inhabited St. Boniface where they rented land from the Catholic Church or took over lots along the Seine River, which had been abandoned during the 1826 flood (Murray, 1967: 35). The Metis occupied lots along the River, south and west of Fort Garry, in the Pembina Valley and in St. Boniface. Few actually owned lots but occupied them exercising squatter's rights (Murray, 1967: 35).

Although the market for agricultural produce was never large, the Settlers were able to establish and support themselves as well as supply the fur trade with staple crops. It took many years to reach this state of self-sufficiency.

The first crops were planted unsuccessfully in the spring of 1813 (Sprague, 1983: 19). In the following year spring wheat, barley, oats, Indian corn, buckwheat and 300 kegs of potatoes were sown. The potatoes grew well, but the remainder of the crops yielded only seed for the following year (Morton, 1967: 50). Seed wheat was obtained from Fort Alexander in 1813. This seed probably originated in Canada or the British Isles but "by 1819 nearly all of it had been lost. On June 5, 1820, 250 bushels of seed wheat were brought into the RR from Prairie du Chien and were sown at once" (Morton, 1967: 74). This strain of wheat proved to grow well and became the standard Red River wheat (Morton, 1967: 74).

The lack of adequate farm implements further limited agricultural pursuits.

> The facilities for farming were not of the best. The implements (the spade and the hoe for planting and sowing) were as primitive as well could be...The reaping was done with the sickle and later on with the cradle (MacBeth, 1897: 2).

In fact, prior to 1824 there were no plows in the settlement. From 1825 until 1850 wooden ploughs with iron points and wooden mould boards were utilized, however, they were not very efficient in the thick and heavy Red River Valley soils (Sprenger, 1972: 163; Murray, 1967: 38). Cast iron plows, mechanical reapers and threshers reached the Red River Settlement in the 1850s but were few in number (Sprenger 1972: 163). Before 1850,

> men cut grain by hand and women and children tied it into bundles with willow withes. The bundles were shocked (or put into 'stocks') in the field and then were hauled into the barnyard and stacked. Threshing was done with hand flails or by the trampling of animals. The most common surface for threshing was a level 'ice floor', although farmers who had wooden floors in their barns threshed in doors and did not have to delay this operation until winter (Murray, 1967: 38).

The settlers did not limit themselves to raising crops alone. Animal husbandry played a very important role in each farmer's subsistence operations (Murray, 1967: 39). Livestock of the Settlement included cattle, pig, sheep and horses (Table 1).

TABLE 1

Census of the Red River Settlement, 1831 to 1856

	1831	1834	1840	1849	1856
Population	2390	3356	4280	5391	6691
Acres Tilled	2152	3230	3953	6392	8806
Acres Tilled per Person	0.90	0.96	0.92	1.2	1.3
Houses	375	567	614	745	933
Stables	265	469	621	1066	1191
Barns	134	211	254	335	409
Horses	410	630	1251	2085	2681
Oxen	958	1708	1793	2252	3152
Cattle	1194	2084	3847	2147	3679
Calves	801	1211		1605	2784
Pigs	362	2053	1984	1565	4929
Sheep			1888	3096	2429
Plows	187	275	396	492	590
Harrows	243	353	457	576	672
Carts	302	608	1351	1918	2108
Wind Mills				18	18
Water Mills				2	9

There were also 8 threshers, 2 reapers, 6 winnowers, and one steam mill in the settlements in 1856.

Source: Murray, 1967.

Cattle were by far the most important and most numerous livestock. Cattle were introduced into the Settlement by 1813 at the latest. Mention is made in 1813 of Peter Fidler bringing with him a bull, cow and yearling heifer he had purchased from the Nor'westers for the Colony (Morton, 1967: 48).

Importing significant numbers of large animals such as cows, pigs and sheep from England via Hudson's Bay or from Canada via Rainy Lake proved to be an extremely difficult task. Therefore, only a few animals were brought into the Settlement by these routes (Sprenger, 1972: 165). The United States was relied upon instead as the primary supplier of livestock to the Settlement.

In 1822, approximately 300 head of cattle were brought from the Mississippi Valley by Governor Bulger (Morton, 1967: 66). These animals were of a "non-descript stock that was well-adjusted to frontier conditions and could be broken to the yoke easily" (Murray, 1967: 41). Attempts were not made to improve the stock by breeding practices.

> For want of care, our cattle are deteriorating fast in size, although costly bulls, and of the finest breed, both from England and the U.S., have been imported into the colony. The local government has taken no steps to restrain a multitude of dwarfly bulls from running at large in all seasons, to the great injury of the breed; and as one evil generally begets another, the large oxen keep at bay the small bulls and not only destroy the cows, but injure themselves into the bargain (Ross, 1856: 390).

Little or no attempt was made to shelter livestock during the long cold winters. In 1850, an agricultural association was formed to encourage stall-breeding and better livestock practices (Ross, 1856: 389). However, prior to 1870, both good cattle and experienced cattlemen were the exception in the RRS (Murray, 1967: 41).

Pigs were also an integral part of the livestock in the valley. Records indicate that in 1819, there were seventy pigs in the Settlement, by 1834, there were 2053. This number decreased slightly as the market for pork was limited by the extensive use of pemmican. Swine production resumed after 1849 (Murray, 1967: 41).

Twenty Merino sheep were introduced into the Settlement in 1812, however, they did not survive (Murray, 1967: 41). Sheep production was not attempted again until twenty years later. In 1832, an expedition, headed by W. Glenn Rae, left Fort Garry for Kentucky where they purchased approximately 1300 sheep. During the long trip back many of the animals perished. Upon their return on September 16, 1833 only 259 had survived (Hutton, 1921: 10-12). Despite the harsh climate and attacks from dogs and wolves, the sheep prospered in the Red River Valley increasing to over 4000 by 1846. However, production of mutton and wool never became a major part of agricultural pursuits with the HBC limiting the market of both products (Nor'wester, Mon. May 14, 1860).

Horses were kept in the Settlement and used primarily for transportation and freighting purposes. They were also used extensively for the bison hunt. As stated previously, oxen were used for field work.

Today the Red River Valley is a major agricultural centre. Its potential was definitely realized early in the nineteenth century however, extensive exploitation was slow in occuring.

> Although an unlimited amount of land was available for the taking, nearly all settlement and farm operations remained concentrated in the narrow river lots. The extent of land use increased very slowly (the area tilled per person increased to

> only 1.3 acres by 1856), the quality of crops generally failed to meet export standards, and the livestock population remained at little more than a subsistence level (Murray, 1967: 44).

It is quite apparent that the economy of the Red River Settlement stagnated as soon as the settlers were capable of producing a surplus of agricultural goods. This state could have been rectified by an expansion in the local population or by locating and supplying an outside market. The HBC however, discouraged both options because they were inconsistent with its priorities, namely, making a profit in the fur trade.

Thus, the Settlers produced enough to support themselves and the limited needs of the HBC. "The plight of three experimental farms indicates that even when liberally subsidized, early Red River Agriculture was limited by human shortcomings and the conditions that existed within the settlement area" (Murray, 1967: 45).

The first model farm was established by Lord Selkirk in 1817. He hoped to provide the fledgling agricultural colony with seeds and extra food supplies. The project succumbed in 1822 to the infestations of grasshoppers, shortages of draft animals, seeds and equipment (Murray, 1967: 45).

The second experimental farm was set up by the HBC in 1831 under the direction of Robert Campbell. This operation was to serve as an example for the Settlers and hopefully, to help them produce superior products. Campbell was an experienced farmer and under his direction it is possible that such a venture might have succeeded. However, Campbell

left in 1832 to go to Kentucky and buy sheep for the farm. Chief Factor McMillan, a fur trader by occupation with no agricultural experience, was left in charge. The Metis servants appointed to the farm were also inexperienced. Ross (1856: 134-135) states: "Their extent of the skill consisted in having seen wheat, barley, and potatoes raised, and that in the simplest and rudest manner." Predictably, the farm failed. In 1837, the HBC sold out at a loss (Murray, 1967: 45-46).

The HBC sponsored another farm in 1836 (Ingram, 1970). In March of that year, the Governor and Committee of the HBC wrote to Simpson:

> It is highly desireable to establish an Export trade from the settlement, as a source of revenue from England, and as the country appears to be well adapted from rearing sheep and Black Cattle, and for the growth of Flax and Hemp... we have therefore determined on establishing a farm on a large scale... (Guinn, 1980: 68).

The farm was intended to serve as an example for the settlers and to help them adopt modern agricultural practices in order to eventually produce crops appropriate for an export trade (Ingram, 1970: 47). Once again, due primarily to inexperienced supervision, the farm failed. Captain George Marcus Cary and a number of farm servants were sent from England to set up the farm at the site selected by the Committee, which was on the low grounds on each side of the New Establishment at the Forks (Guinn, 1980: 68). After two full years of operation only 20 acres had been cultivated, and they were "raising wheat, barley, potatoes, and turnip-articles which every one in RR had for sale, and for which there was no market" (Ross, 1856: 213). Operations were reduced in 1840 when it was decided to maintain it solely for the sake of having a Company owned farm in the colony (Ingram, 1970: 49).

Thus, agricultural pursuits in the Red River Valley developed and expanded slowly. The early settlers had to contend with floods, droughts, frosts, insects, inadequate equipment and poor storage facilities. There was also no market in which to sell their goods and what little market there was, was controlled by the HBC. Under these adverse conditions the Settlers managed to produce food for themselves and supply the fur trade. However, due to the constraints listed above this chain of supply proved at times to be inadequate.

"The chief reliance of the colony for food lies in its agriculture, its Plains hunts, and its fisheries. The rabbits in the woods in winter, and the spring and autumn goose hunts, also offered temporary sources of supplies" (Hargrave, 1871: 175). The goose hunt was a biannual event occuring during the spring and fall migration of the birds. Much public interest was generated at these times (Hargrave, 1871: 173).

Autumnal fisheries on Lakes Manitoba and Winnipeg provided the Settlement with a copious source of food. Although the lakes abound with fish, whitefish and sturgeon were chiefly exploited. During the summer months, fishing was also done on the Red and Assiniboine rivers where goldeyes, catfish and a few sturgeon were caught (Hargrave, 1871: 177).

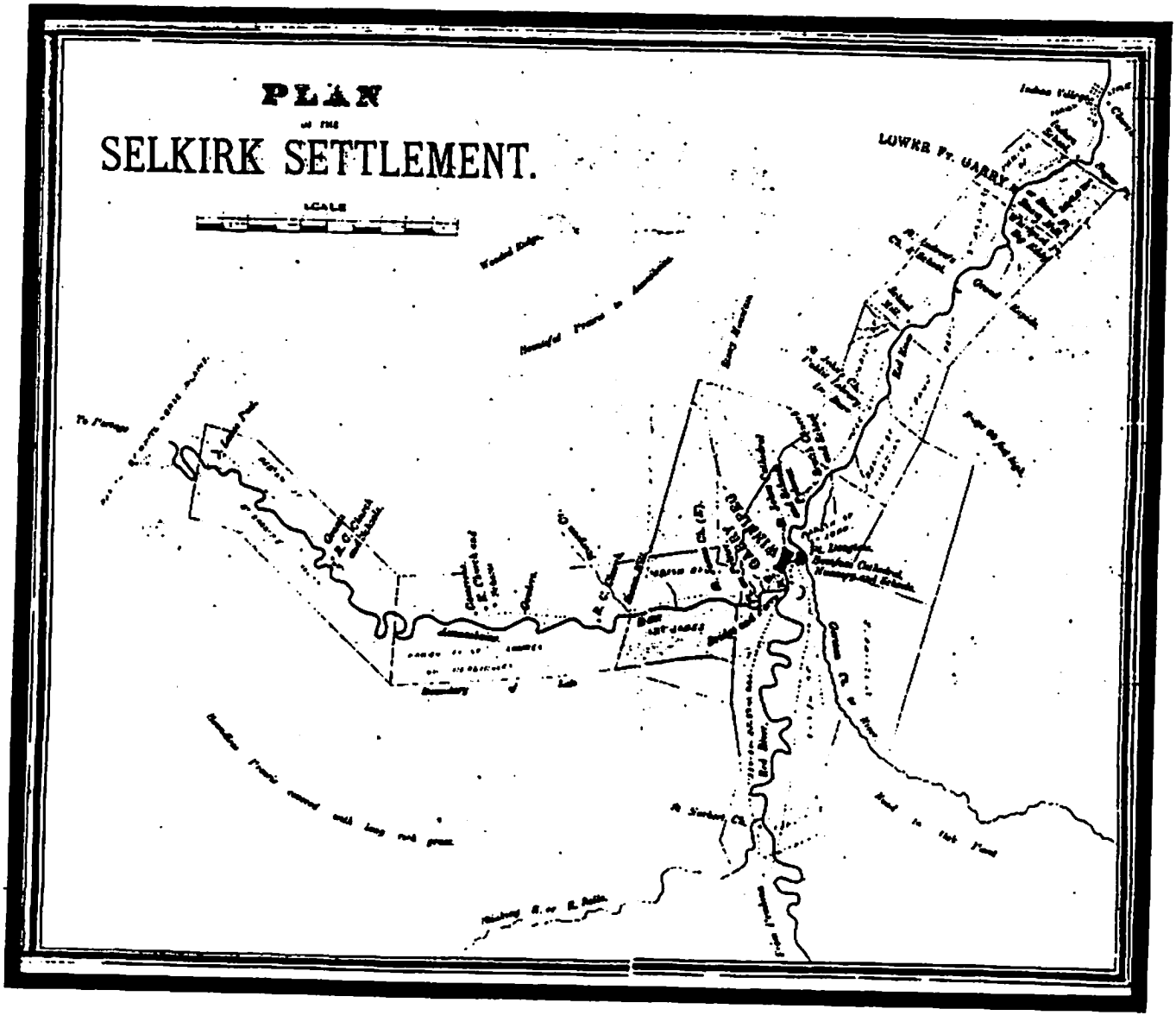
2.2 SOCIAL AND ECONOMIC STRUCTURE: HBC AND RRS

The preceeding section outlined the economic pursuits of the Settlers and their agriculutural relationship with the HBC. However, to better understand the social context within which the artifactual data could be examined one must also comprehend the social and economic structure of both the Red River Settlement and the HBC.

The social structure of the Red River Settlement was hierarchical in nature. Defining characteristics were primarily ethnic identity, religion and occupation.

The Red River Settlement was composed of a number of ethnic groups. The members of each group tended to congregate together and settle in distinct areas of the community. The Scottish and English or Anglican Protestant settlers lived along the Red River between Upper and Lower Fort Garry in what eventually became the parishes of St. John, Kildonan and St. Paul, St. Andrew, respectively. The French Canadians lived in St. Boniface, as did the Swiss and Demeurons homesteaders, who settled primarily along the Seine River. The Metis lived in the Settlements of White Horse Plains and St. Francois Xavier and also moved to the areas abandoned by the Swiss and Demeuron, after the flood of 1821, namely St. Vital and St. Norbert (Sprague and Frye, 1980: 180). North of Lower Fort Garry was located the Indian Settlement of St. Peter's (Figure 1).

Although often denied by the Red River Settlers, there appear to have been ethnic prejudices which helped to maintain the spatial boundaries. For example, MacBeth (1897: 51) states: "no caste or color lines were



Hand coloured print: 21.4 x 25.9 cm.; 1:253,440

Inset on "Laurie's map of the North-west Territories . . . Compiled by D. Codd, Ottawa Entered according to Act of Parliament of Canada, in the year 1870 by D. Codd, in the office of the Minister of Agriculture Roberts, Rennold & Co., Lith., Montreal".

Figure 1: Plan of the Selkirk Settlement (Artibise and Dahl, 1975: 10)

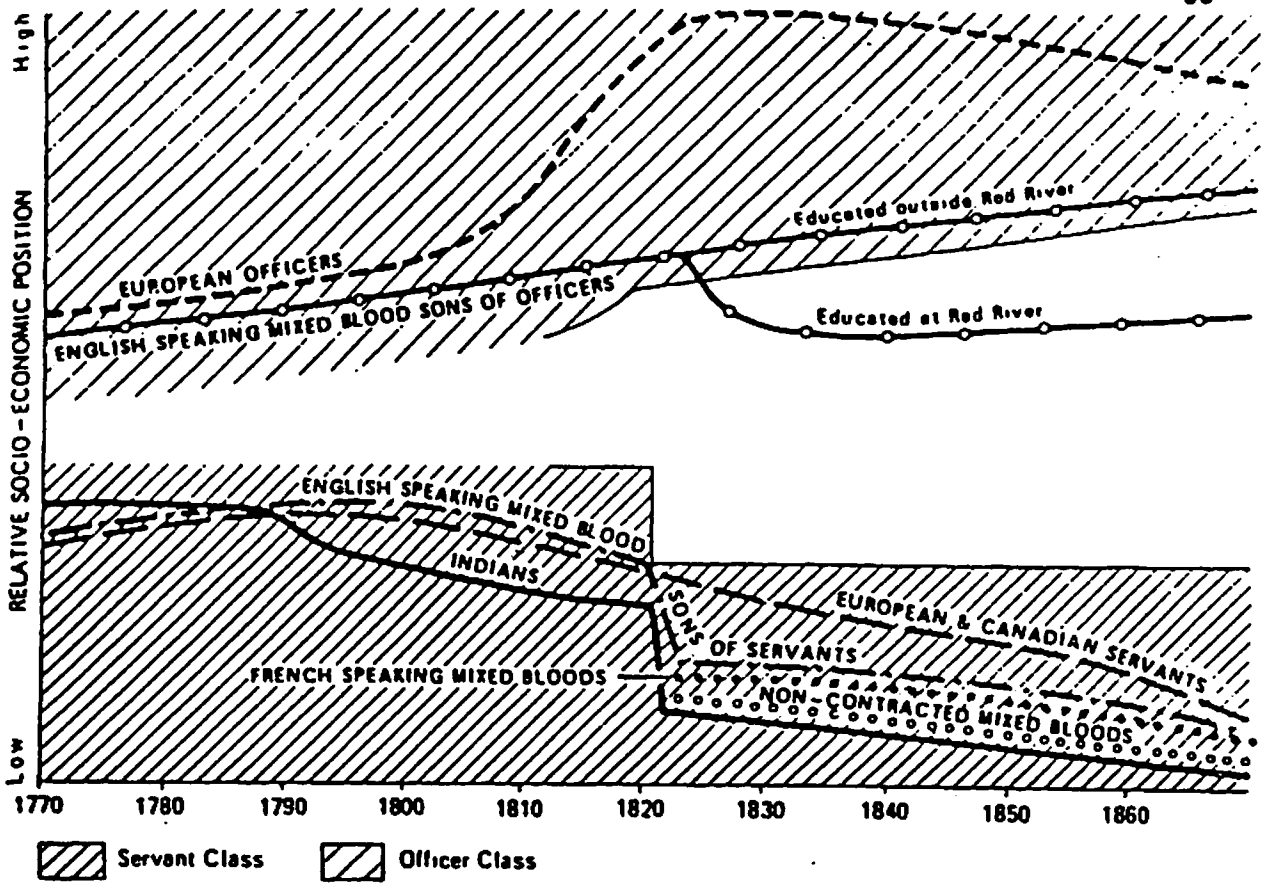


Figure 2: Relative Socioeconomic Positions in the HBC Fur Trade Hierarchy (Judd, 1980: 309)

> I could get [my well-educated son] in the Cos service, but halfbreeds as they are called has no chance there nor are they respected whatever their abilities may be, by a parcel of upstart Scotchmen, who now hold the power to control in the concern (James to John Sutherland, Red River Colony, 10 Aug. 1846).

A new rank of apprentice postmaster was introduced in 1839 and formally admitted through the minutes of the Northern Council in 1844. Although not developed to accommodate local mixed bloods, during its use in the 1840s and 50s, all but one of the twenty one people appointed to the position of apprentice postmaster were identified in the engagement records as "native" and of those, nineteen were sons of chief factors

and chief traders (Judd, 1980: 312; Sprague, 1983: 20). Apprentice postmasters signed on for five years at £30 to £50 per annum if the individual was considered capable of becoming a clerk (Judd, 1980: 312).

The rank of apprentice post master clearly demonstrated the discrimination within the HBC. As stated this rank was filled almost exclusively by mixed blood sons of officers. Not only was their training period considerably longer than that of European clerks but their starting pay was significantly lower.

In protest against this rank James Anderson (1857) wrote:

> These young men are generally the sons of your oldest and most faithful officers and on an average are fully as talented and well educated as the apprentice clerks from Europe and Canada and tho' they do precisely the same duty they are degraded to a lower rank, pay and allowances. This glaring injustice must-unless they be more than human beings rankle in the minds, particularly in the minds of those of high spirit and superior ability (P.A.C. James Anderson Papers MG19 A19, McKenzie River District Report 1857: 127).

As illustrated, the HBC labour system was fashioned in a rigid pyramidal hierarchy composed of three distinct parts: officer, permanent servants and part-time or short-term workers. This hierarchy was supplemented by informal ranking mechanisms characterized by criteria that measured one's male worth, country (experience in Rupert's Land), and European skills, and kinship connections (Hamilton, 1985: 26). Inherent in these criteria were prejudices, the most blatant of which were ethnicity and religion.

The HBC was undeniably the most vital economic force in the RRS. The Company was the largest employer within the community and as such its

employment hierarchy extended into the RR society. As a result "an individual's status in the community was closely related to his status in the company" (Judd, 1980: 314). In fact, the hierarchies within the HBC and RRS were structurally similar with several common defining variables such as occupation, ethnic identity and religious affiliation (Figure 3). The two hierarchies complimented each other and were interwoven at a variety of levels.

The Selkirk Colony was, for the first decade of its existence, under the direct management of Lord Selkirk. After his death in 1820, this responsibility fell into the hands of Selkirk's executors. They transferred the government of the colony's affairs into the hands of the HBC, who were able to purchase absolute rights about 12 years later (Ross, 1856: 170).

In an attempt to organize and maintain order within the growing colony, the Company imposed local regulations, courts of justice and a code of laws. A legislative council was established to make and enforce laws in both criminal and civic matters. Important members of the colony were selected as councillors with the Governor-in-chief at their head. These men, while undoubtedly being the most influential within the Settlement, were strongly associated with the Hudson's Bay Company. Table 2 lists the men who comprised the Council of Assiniboia; all were either sinecurists or paid servants of the Company (Ross, 1856: 174).

The position of "Recorder of Rupert's Land" was also created in the 1830. Judge Adam Thom was appointed Recorder by the HBC and received a salary of 700 sterling per annum. Thom fulfilled the duties of a

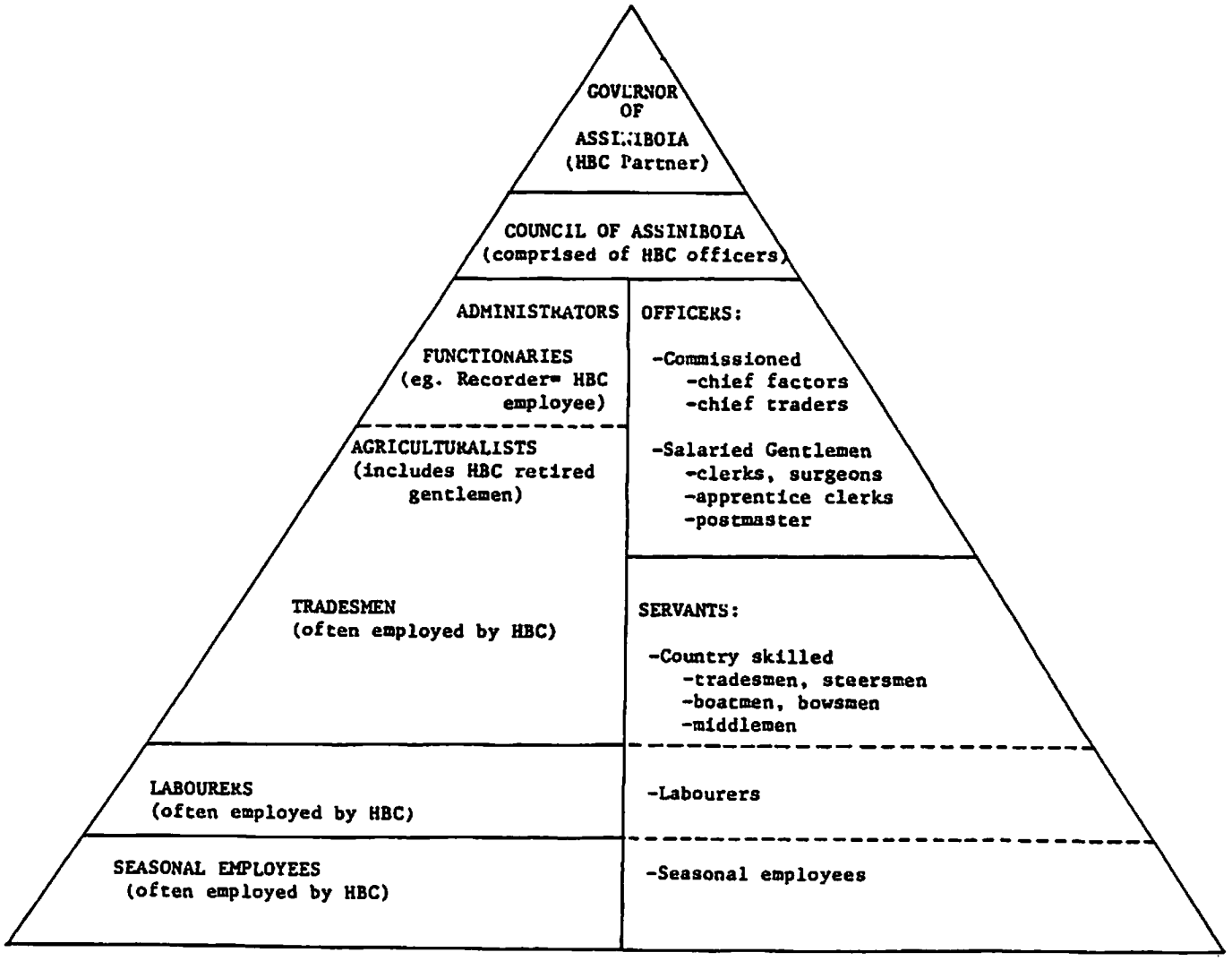


Figure 3: Comparison of RRS and HBC Organization, mid-1800s (Compiled from Hamilton, 1985, Judd, 1980, and Goldring, 1979)

TABLE 2

Constitution of the First Council of Assiniboia

President	Sir George Simpson, Governor of Rupertsland
Councillors	Alexander Christie, Governor of Assiniboine (the colony) The Right Reverend the Bishop of Juliopolis, now of the NWC The Reverend D.T. Jones, Chaplain to the Honorable HBC The Reverend William Cockran, Assistant Chaplain James Bird, esq., formerly Chief Factor, HBC James Sutherland, esq. W.H. Cook, esq. John Pritchard, esq. Robert Logan, esq. Alexander Ross, esq., Sheriff of Assiniboine John McCullum, esq., Coroner John Bunn, esq., Medical Advisor Andrew McDermot, esq., merchant Cuthbert Grant, esq., Warden of the Plains

"recorder" per se, as well as judge in the colony. The dual nature of this role and the appointment of Thom caused much concern in the colony and a number of objections were raised. Thom could not speak French, which was the language spoken by the majority of the population, and he was a paid servant of the HBC.

> A man, then, placed in Mr. Thom's position, liable to be turned out of office at the Company's pleasure, naturally provokes the doubt whether he could, at all times, be proof against the sin of partiality. Is it likely he could always take that impartial view of a case that might involve in its results his own interest, or deprive him of his daily bread? (Ross, 1857: 224-225).

The structure of the RRS and HBC as outlined changed over time. The HBC was not able to maintain its control over the Settlement. With the rise of free-trade and an increase in the number of free-traders, the

Company was unable to effectively enforce rules, or to restrict and collect duty on goods. It was at this point, 1846, that the Sixth Regiment of Foot was brought from England. Alexander Christie stated the HBC reasoning in a letter to Chief Factor Donald Ross at Norway House:

> If we succeed in getting a garrison established at RR, we shall be able to put down the illicit trade and keep the settlers in order, but nothing must be said about it until we are quite certain of it (Guinn, 1980: 72).

The Sixth Regiment was used to maintain law and order and to limit free trade. "In this capacity, the military was an appendage of the top levels of the Company hierarchy and stood in a social position immediately under the Company's Governor and above the settlement population" (Monks, 1983: 5). In fact the Colonel Ffolliott Crofton, Commanding Officer of the Sixth Regiment, acted as the Governor of Assiniboia (Ross, 1856: 364).

2.3 THE SIXTH REGIMENT OF FOOT

By-in-large, Upper Fort Garry was an isolated centre. It was fifteen hundred miles from the nearest city in the east, and six hundred miles from any other outlet to the rest of the world (MacLeod, 1949: 5).

The fort's remoteness became even more evident in the 1840s when problems began to arise. Trouble was brewing with the Metis over the rights to free trade and the threat of war with the United States over the Oregon boundary dispute was a reality.

As a solution to this problem, British troops were sent to the Red River Settlement. The Sixth Regiment of Foot was dispatched in 1846 and consisted of one field officer, three captains, three lieutenants, three ensigns, one assistant surgeon, fifteen non-commissioned officers, six drummers and 270 rank and file, with the usual proportion of Women and children (Morrison, 1970: 169).

Major John Ffolliott Crofton was selected to command the detachment. The trrops left from Cork on June 26, 1846 for the Hudson Bay. They arrived at York Factory on August 8, but did not arrive at Lower Fort Garry until the middle of September. Major Crofton preceded the troops to the lower fort and left just a couple of days afterwards to move onto Upper Fort Garry, where headquarters were to be established (Morrison, 1970: 170-171). The Force was divided in two. The smaller part of the force stayed at Lower Fort Garry, while the remaining officers and men moved on to Upper Fort Garry (Ingersoll, 1945: 15-16).

At the Upper Fort, a fence was installed down the middle, creating two separate areas. The east side of the fort being used by the Hudson's Bay Company; the west by the Sixth Regiment. "The warehouses along the west wall were turned into barracks, and the four stone bastions were used respectively as a guard room, an engineer's office and sotre, a sutler's shop and a magazine. The jail outside the walls, was turned into a hospital, and two buildings, 60 by 30 were put up to the north of the fort as additional barracks"(Ingersoll, 1945: 16).

The Sixth Regiment was well received by the Red River community. The addition of over 300 people expanded the local population, thereby

increasing the size of the local market significantly. This created a much needed outlet for the surplus of agricultural food produced by the farmers.

Chapter III

METHODOLOGY

3.1 ARCHAEOLOGICAL EXCAVATIONS

In 1978 and 1979, the City of Winnipeg and the Downtown Association sponsored two brief test excavations around the palisades and rear gateway of Upper Fort Garry. Parks Canada tested two areas of the gate: "the roadway through the gate and a section of the north palisade of the fort, east of the gate" (Priess, 1980: 2). Their primary objective was to discern structural information about the fort. Excavations revealed that the gate was constructed with only a partial foundation.

> One footing was discovered under the southeast corner ... It appears reasonable to suggest that similar footings were installed for all four corners of the gate ... The gate had wooden gates hung on three strap hinges and on the ground below the wooden gates there was a wooden sill (Priess, 1980: 13).

Excavated evidence provided little information regarding the construction of the palisade. Detailed documentary accounts indicate that

> the palisade was a rubble-filled cribbing of horizontal logs. Illustrations show a stone base for the palisade ... [which] was built on the ground. A stone below ground foundation for the palisade was present only adjacent to the gate wall (Priess, 1980: 13).

Artifacts recovered were assignable to a post-occupational period, dating from the late nineteenth century up to recent times.

The 1979 excavations, conducted by Michael Kelly, were designed to "identify and determine the full nature of the archaeological resources within the park's boundary" (Kelly, 1981).

> A series of ten contiguous 2 by 3 m excavation units were laid out straddling the projected centerline of the palisade ... Two more units (1x3m and 2x3m) were excavated in the former compound interior immediately south of the palisade line where the building listed as the general department on the HAZEL map of 1876 was located (Kelly, 1981).

No posts or post molds were identified; foundation remains belonging to the General Department building were uncovered in the units located within the compound interior (Kelly, 1981). Approximately four thousand artifacts were recovered. Based on a preliminary analysis, the majority appear to date from the late nineteenth century to the present - a post-occupational period.

In order to learn more about the fort, further excavations were conducted in the only other accessible area of the fort, namely the northeast corner of Bonnycastle Park (Figure 4). This park is located at the southwest corner of Main Street and Assiniboine Avenue. Unfortunately, the remainder of the fort lies under Main Street, Assiniboine Avenue, the Fort Garry Curling Rink, 100 Main Street, and a city parking lot.

Archaeological work at Bonnycastle Park began in 1981 and was continued during 1982 and 1983 (Figure 4). All work was done under the direction of Dr. Greg Monks. The crews employed were comprised primarily of graduate and undergraduate students from the Universities of Manitoba and Winnipeg.

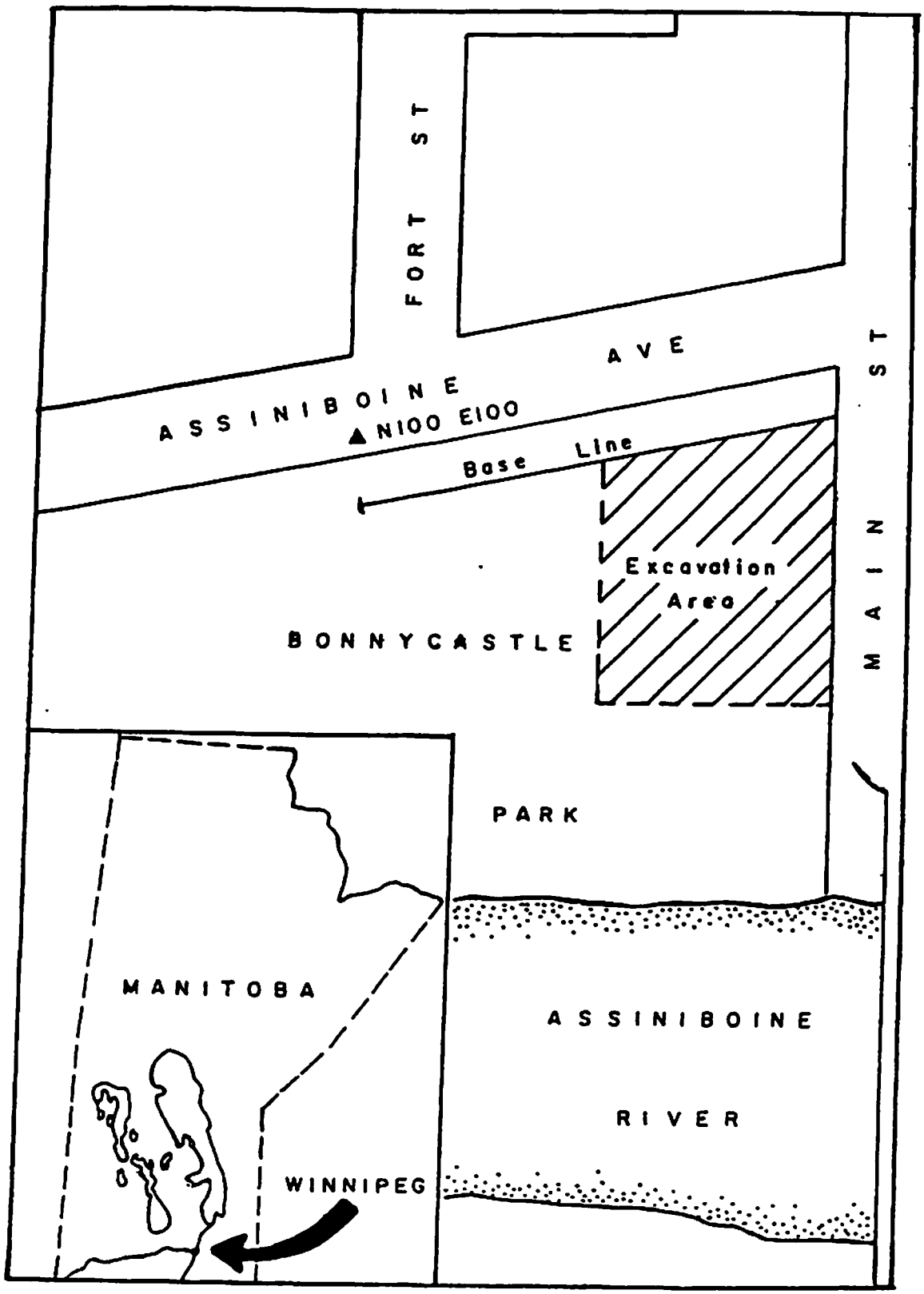


Figure 4: The Upper Fort Garry Site (DILg-21)

A three-dimensional grid reference system was used throughout the three-year period.

> Horizontal measurements were taken from the City of Winnipeg's special survey pin on the south side of Assiniboine Avenue at the foot of Fort Street. This pin was assigned the location N100 m, E100 m, so that all measurements on the site were taken in terms of north and east coordinates. Vertical control ... [was] established in metres ASL according to the 232.203 m ASL elevation of the brass Geodesic Survey plug in the pumphouse foundation in the southeast corner of the park (Monks, 1983: 4).

Metre square units were surveyed in by transit and labelled by the coordinates of the northeast corner (Monks, 1982: 33). Units were shovel-shaved to remove the overburden (twentieth century fill). The cultural strata were trowelled. Soil samples were taken from each unit and were waterscreened in the field using a one-quarter inch mesh screen and a garden hose (Monks, 1982: 33). Artifacts recovered were individually measured in from the northeast corner of the units.

The excavations in Bonnycastle Park uncovered the foundation of the fort's west wall, the foundation of a large building inside the fort, and two privy/refuse pits (Figure 5). The west wall of the fort was exposed in the 1982 excavations and was expanded upon in 1983. It ran in a continuous alignment from the excavated units N95 m to N177 m (Monks, 1983: 34-35). The foundation of the wall "was composed of large cobbles and boulders, both limestone and granite, held together by mortar. The foundations measured 3' wide by 18" deep and were laid in a trench dug into the ground" (Loewen and Monks, 1988: 21).

The three walls of the building foundation uncovered

> rested on a foundation of similar materials and width [to the fort wall] but, inexplicably, was twice as deep (i.e. 3'). Three wooden beams appear to be floor joists supported by

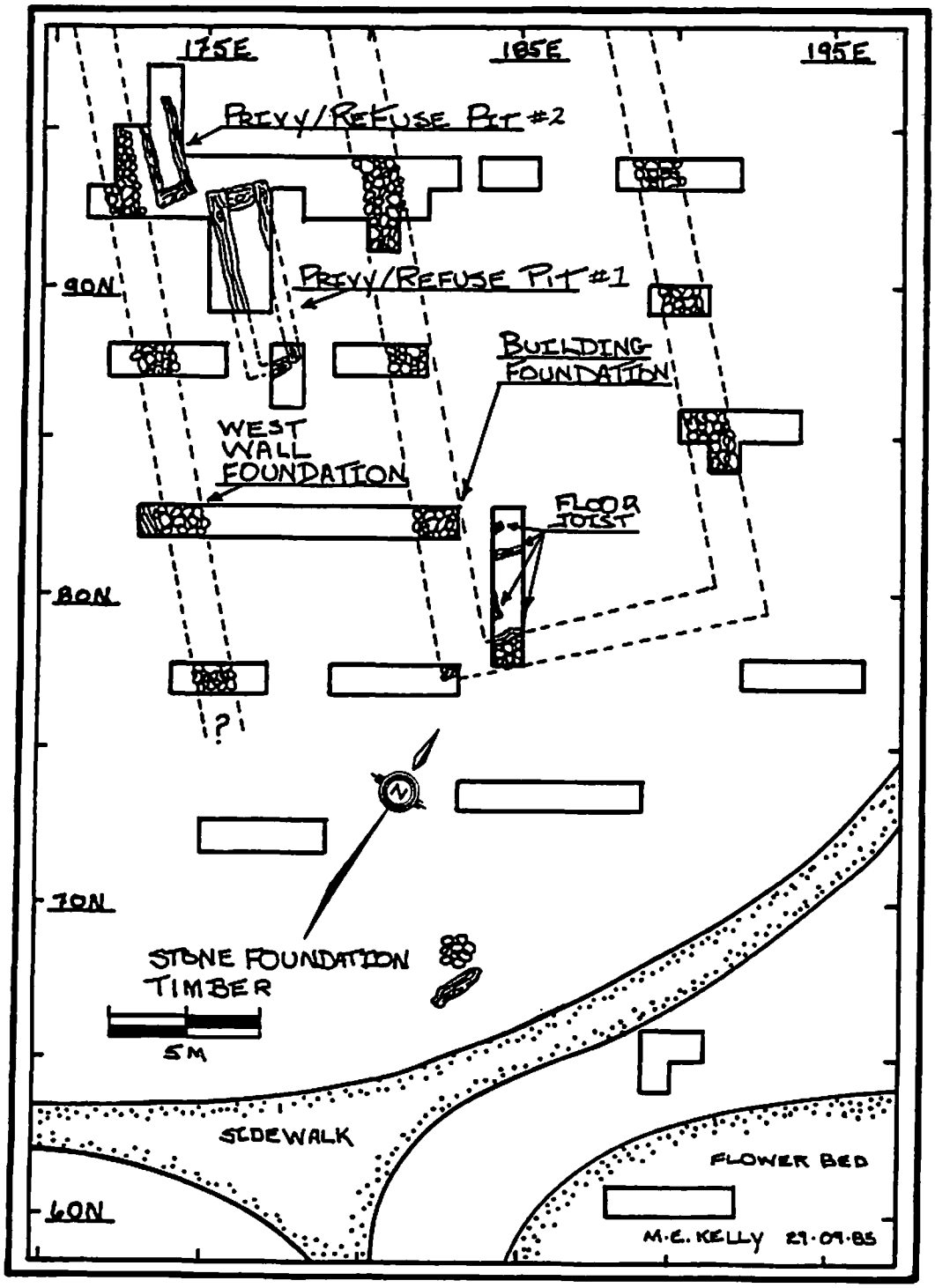


Figure 5: Plan View of Excavations Showing Location of Privies

> rocks and mortar. There was a distance of c. 109.5 cm between each beam, an interval approximating the archaic measure known as the English or cloth ell (45 in.) (Monks, 1983: 37).

The two privy refuse pits were an exciting discovery. The larger pit measured approximately 10' x 6' x 5'3" (3m x 1.8m x 1.6m). It was cribbed with hand-hewn oak beams. The northeast corner

> was made by chopping the end of each log to form a tenon ... An effort seems to have been made to fashion tenons that sloped down and out from the building. The purpose of this method of construction was to allow any water to run out of the corner of the building, thereby helping to keep the interior dry and the corner from decomposing rapidly (Monks, 1982: 53).

The second pit was narrower and shallower. It too was cribbed with oak beams to prevent dumpage, but these beams were sawn. Both structures yielded a brown organic matrix that is unquestionably manure. Chemical tests indicate that at least some of it is human, confirming the use of the structure as a privy. The large amounts of artifactual remains suggests a dual purpose of the structures as refuse pits as well (Monks, 1982: 23).

3.2 DATING

The privies were dated using a variety of materials: ceramics, glass, newspaper, and textiles. The results are thoroughly discussed by Gail Fifik (1986); a brief summary is presented here. In this discussion, the four artifact classes used in this analysis are considered separately using a variety of methods. Following this analysis, the results are compared with each other and assessed as to reliability. The privies were also dated separately for comparative purposes, but the dates for both range from as early as the 1820s to as late as the 1900s.

Ceramics were dated according to the production dates of the patterns. These dates were arrived at using South's mean ceramic date method (1978, 1979). Based on the ceramic patterns an initial date of 1839.8 and a terminal date of 1874.8 were suggested for Privy 1. The dates suggested from Privy 2 were 1832.4 (initial) and 1866.1 (terminal). However, problems exist with this technique. The minimum number of vessels represented by the fragments was not calculated and vessel types were not distinguished. This could skew the results by affecting the weighting factor. Also, no dates were identified for one pattern 'crenulated' found exclusively in Privy 2 and making up nineteen percent of that sample.

Although neither privy was totally excavated, a difference in frequency of ceramic artifacts recovered was noted, suggesting that there were depositional differences. It is hypothesized on the basis of this frequency that Privy 2 was used by the lower ranks of the army (privates) while Privy 1 was used by the higher ranks (officers, sergeants, and corporals with families). Metal plates and cups were probably used by the military personnel of the Sixth Regiment of Foot (1846-1848) (Sussman, 1979b: 191). Commissioned officers used ceramic dishes (Sussman, 1979b: 191). "At Upper Fort Garry, it would be expected that the officers, and sergeants and corporals with families also had their own ceramic dinner services" (Fifik, 1986: 70).

It was not possible to correlate the dates of ceramic patterns with above sea level (ASL) depths and stratum due to depositional factors which have resulted in the stratigraphic mixing of artifacts. This

could have been caused by both natural and human depositional factors, such as artifact use, reuse, and discard; cleaning of the privy; dumpage of material; frost heaving; and rodent activity (Fifik, 1986: 82).

The manufacturer's marks on the ceramics were also used in dating the privies. Dates ranged from 1833 to 1867. The correlation of the dates of ceramic manufacturer's marks with ASL and stratum was more successful in that the earliest manufacturer's mark was found at the lowest ASL for Privy 1.

Glass artifacts were dated according to their mode of manufacture and gave dates ranging from 1820 up to the twentieth century (Fifik, 1982: 92). Glass was also mixed by ASL and by strata in each privy.

Newspapers provided the tightest and most consistent dating. A variety of newspapers was recovered from Privy 1. Included were the Times (of London), the Montreal Gazette, the New York Times, and a paper from the Isle of Man. All of them dated to 1846 and 1847. The newspaper remains from Privy 2 were in poor condition. Only one fragment from a newspaper or leaflet was found bearing a date, 1880. This evidence supports the hypothesis that Privy 1 was in use when the Sixth Regiment of Foot was garrisoned at Upper Fort Garry from 1846 to 1848, but would suggest that Privy 2 was used later.

The textile evidence for dating is scanty. Based on the patterns and the scarcity of machine stitching, most appear to have been made during the first half of the nineteenth century.

> The fibre and vermicelli pattern of one fragment (DILg-21/6006) may be a copy in fabric of both ceramic patterns. The vermicelli ceramic pattern itself is dated from

1828-58 (Sussman, 1979: 93). The fancy silk monochrome pattern (DILg-21/5515) is reminiscent of patterns from the French and English silk mills circa 1800-50 (Fifik, 1986: 90).

Two fragments were found in Privy 1 which were definitely associated with the Sixth Regiment of Foot (1846-1848). Two cotton fragments, possibly shirts, have names stamped on them: "W. Stokes" and "C. Fidds." Both are listed on the payroll sheets as privates (WO12/2415-2417) (Fifik, 1986: 90).

The historical evidence can be used to refine the dates suggested by the artifacts. The fort was constructed in 1836 and was demolished in 1882. Thus, artifacts which might predate the construction of the fort are probably a reflection of reuse and curation (Fifik, 1986: 92).

The four artifact classes yielded varying dates for the two privy/refuse deposits. The artifactual evidence, namely the newspapers, appears to support the hypothesis that Privy 1 was in use during the late 1840s, possibly when the Sixth Regiment of Foot was in residence at the Fort. It is harder to pinpoint the date of Privy 2's existence. Following Fifik's analysis, it appears to post-date Privy 1 and the Sixth Regiment's occupation of the Fort. However, in a ceramic analysis by Larcombe (1988), the opposite was suggested (i.e. Privy 2 predates the arrival of the military). Because Fifik's analysis is on a broader scale, encompassing more artifact classes of data, her results are being used in this thesis. Hence it is hypothesized that Privy 1 was in use during the occupation of the Fort by the Sixth Regiment of Foot and that Privy 2 is post-military.

Special note should be made of references in the historic literature which indicate that privies were periodically cleaned out. For example, at Fort Wellington "it appears that the pits were regularly cleaned out ... In between, the latrines were regularly treated with lime to help reduce the odor" (Carter-Edwards, 1986: 8).

The latter process was practiced at Upper Fort Garry. During the excavation of the structures, lenses of ash and lime were encountered several times. The archival documents relating to the fort refer to a number of privy structures having been built along the west wall of the fort (Loewen and Monks, 1986: 40). This suggests perhaps that when faced with the dilemma of emptying them or covering them over and moving the latrines elsewhere, the latter option was selected. Thus the artifacts and the bones recovered from the privies probably reflect a relatively short-term deposit.

3.3 ARCHAEOLOGICAL DATA AND ORGANIZATION

The faunal material discussed in the following thesis was recovered during the 1982 field season from the two privy/refuse deposits at Upper Fort Garry. Bones from the 1981 collection were recovered primarily from post-occupational fill layers and were thus of little significance to this study. The 1982 collection provided a sample of over four thousand bones, approximating seventy-five percent of the total number of bones recovered from all excavations conducted (1981-1983). Statistically, this represented a more than adequate sample for analytical purposes. Random sampling was not necessary because the sample size was greater than fifty percent.

The bones were identified using the faunal collections at the Universities of Manitoba and Toronto, as well as the Manitoba Museum of Man and Nature and the Royal Ontario Museum. All bones were identified to the smallest taxonomic unit possible. This information was coded according to the Parks Canada manual (1982) and stored on a computer file (Appendix A). The variables examined for each bone were locational information including site, unit, level, stratum, ASL, north provenience and east provenience; animal class; taxon; anatomical element; portion of element; segment of portion; weight; side; fusion; eruption; burn; juvenile cortex; break; butchering type; and flake.

A separate file card system was kept for those bones which had been butchered. Variables noted were bone segment, type of butchering marks, and exact location of the butchering marks on the bone.

All of the above variables allow the sample to be analyzed quantitatively to identify species used as food sources. It is also possible to identify parts preferred and to equate these with types of butchered meat cuts (short ribs, rump roast, blade steak, for example). Relative meat costs were obtainable through the archival sources and historic documents. Using these prices in conjunction with the faunal data the economic value of the sample is assessable.

3.4 NATURE OF THE PRIVY DEPOSITS

Before starting the analysis of the faunal remains from the two privies, it must be explained that several assumptions have been made. Firstly, it is assumed that different groups had different privies. At Fort Wellington, studies of the latrines built in 1838/1839 indicate that the structure had "three separate compartments, each with their own entrance: the men's privy, the women's privy, and the officers' privy" (Carter-Edwards, 1986: 1). These compartments varied reflecting the social life within the British army in the mid-1800s. The men's privy was characterized by an obvious lack of privacy. Their latrine consisted of a bench along a wall "with a series of wooden rungs on which they perched rather than sat on a flat wooden surface with a hole cut out" (Carter-Edwards, 1986: 3). The women's latrine was divided by partitions from the men's and officers' latrines. The interior had been white-washed. The women had a flat, finished seat, with probably two holes cut out allowing semi-private accommodations (Carter-Edwards, 1986: 5).

The officers' latrine was similar to the women's latrine except that there was only one hole in the flat, finished seat, providing complete privacy. The interior was white-washed and "ventilation was provided to each cubicle by means of a window-situated on a sliding track which enabled it to be opened or closed" (Carter-Edwards, 1986: 6).

A similar arrangement was found to exist at the Dauphine Latrines in Artillery Park, Quebec City. Although the latrines were built with the same exterior design and of the same construction materials, the

interior layout differed depending upon for whom they were constructed (Deslauriers, 1984: 6-7).

> For privates and their wives, no effort was made to indicate the position of the seats, between which there was certainly no partition. The non-commissioned officers seem to have been more at ease in smaller, partitioned buildings, providing them with greater privacy (Deslauriers, 1984: 6-7).

It would appear plausible to assume that at Upper Fort Garry different groups had different privies. For example, the military and the HBC probably had their own mutually exclusive privies, and within these groups and privies, there were further subdivisions based on position and status.

Secondly, based on the dating of artifacts recovered from the privies it is hypothesized that Privy 1 predates Privy 2.

Thirdly, because of the presence of military related artifacts (buttons, material with soldier's name, and the presence of newspapers dating to the late 1840s, for example), it is believed that Privy 1 was used by the military personnel. Privy 2 dates to a later time period, one which is post-military. Thus it may have been used by either the military or by other residents of the fort (HBC employees).

Fourthly, knowing the importance of the fort, the military, and the fort's inhabitants, it is assumed that the artifacts comprising the privy deposits reflect an upper class diet.

Chapter IV

FAUNAL ANALYSIS

4.1 INTRODUCTION

In total, 4842 specimens have been catalogued and analyzed. On the whole the bones reflect good preservation. The sample consisted of 1955 mammalian, 494 avian, 1677 osteichthyes, 132 molluscan and 584 unanalyzable elements (Table 3). Approximately twenty percent (20.83%) of the sample was identified to order or a smaller taxon (Table 4). Fish scales numbered 1042 and ranged from poor to good condition. The scales were not included in the analysis because of limited access to a complete comparative collection. It was also assumed that the large sample of fish bones would be representative of the fish species utilized as food resources.

Faunal material was recovered from forty units during the 1982 excavations. The majority of the faunal remains were located within the two privy/refuse pits. Privy 1 yielded 46.37% of the total sample from six units: N90 E177, N91 E176, N91 E177, N92 E177, N94 E176, and N93 E177. Privy 2, on the other hand, yielded 25.90% of the total assemblage from five units: N93 E174, N94 E174, N94 E175, N96 E174, and N97 E174.

TABLE 3

Faunal Findings by Zoological Class

Class	Total Faunal Sample	Percentage of Total Faunal Sample
Mollusca	132	2.73 %
Osteichthyes	1677	34.63
Reptilia	0	0.00
Amphibia	0	0.00
Aves	494	10.20
Mammal	1955	40.38
Class uncertain	584	12.06
Total	4842	100.00

TABLE 4

Elements Identified to Order or Smaller Taxon

Class	No. Excavated Faunal Elements	No. Excavated Elements Identified	% Total Faunal Sample Identified
Mollusca	132	4	.08 %
Osteichthyes	1677	214	4.42
Amphibia	0	0	0.00
Reptilia	0	0	0.00
Aves	494	281	5.80
Mammalia	1955	510	10.53
Class Uncertain	584	0	0.00
Total	4842	1009	20.83%

The remaining 27.73% of the total faunal assemblage was recovered from units outside of the two structures. Of these, 95.5% was found within the fill layers (Stratas 1-3). The 58 bones which were found below the fill were contained within the Paleosol strata. These bones may simply represent general discard at the fort or may be indicative of earlier native occupations. No domesticates were represented by these bones and there was no indication of human alteration (charring or butchering, for example).

The two privy/refuse pits were studied individually, as separate deposits. Newspapers dated to 1845 and 1846, plus the recovery of an 1846 coin, suggest that Privy 1 dates to the late 1840s. This is the time period in which the Sixth Regiment of Foot was stationed at Upper Fort Garry. Artifacts from Privy 1 such as pieces of cloth and a brass medallion with Sixth Regiment markings suggest that this privy was used by the military and that the deposits relate directly to the occupation of the fort by the Sixth Regiment (Monks, 1981: 26).

Artifacts from Privy 2 date to a later time period, one which is possibly post-military. Thus it may have been used by either the military or by other residents of the Fort (HBC employees, for instance).

4.2 PRIVY 1

The sample consisted of 775 mammalian, 324 avian, 748 osteichthyes, 13 molluscan and 185 unanalyzable elements.

> A high moisture content in the soil, beginning at or near the top of the first log structure (231.50 m ASL) provided an anaerobic environment in which normally perishable organic remains were preserved (Monks, 1983: 25).

Because of this excellent preservation, differential bone deterioration should not be a factor.

4.2.1 Mammalian Elements

Mammalian remains dominate, comprising 43.12% of the Privy 1 fauna. Of the 975 elements, 420 (43.02%) were identifiable to a zoological taxon below class (Table 5). Unidentifiable mammal bones were sorted according to size, where possible. Bones from animals smaller than white-tailed jack rabbit were classed as small mammals; bones from animals larger than a rabbit but smaller than a wolf were classified as medium mammals; and bones from animals larger than a gray wolf were classified as large mammals.

In total, there were twelve taxa represented, belonging primarily to two orders, Artiodactyl and Lagomorpha. Within the Artiodactyl order the Cervid family is minimally represented. Elements belonging to the Bovid family comprise 24.21% of the sample. Thirty sheep bones were positively identified. The term 'sheep-goat' was used when a positive identification could not be made.

TABLE 5

Mammalian Element Identification, Privy 1

Species	No. of elements (422) identif. to zoolog. taxa below class	% total Mamm. elem. identif. to zoolog. taxa below class	% total (975) excavated Mammal elements
Homo sapiens Linnaeus (Man)	1	.2	.1
Leporidae sp.	14	3.3	1.4
Lepus sp.	8	1.9	.8
Lepus americanus Erxleben (Snowshoe Hare)	43	10.2	4.4
Canis sp.	1	.2	.1
Vulpes vulpes (Linnaeus) (Red Fox)	69	16.4	7.1
Artiodactyl sp.	8	1.9	.8
Cervidae sp.	1	.2	.1
Bovidae sp.	153	36.3	15.7
Bison bison (Linnaeus) (Bison)	6	1.4	.6
Bos tauros (Domestic Cow)	29	6.9	3.0
Capra/Ovis sp. (Goat/Sheep)	2	.5	.2
Capra hirca (Domestic Goat)	16	3.8	1.6
Ovis aries (Domestic Sheep)	30	7.1	3.1
Sus scrofa (Domestic Pig)	39	9.2	4.0
Antilocapra americana (Ord) (Pronghorn)	1	.2	.1
Equus caballus (Domestic Horse)	1	.2	.1
SUBTOTAL	422	99.9	43.2
Large mammal sp.	271		27.8
Medium/Large mammal sp.	104		10.7
Medium mammal sp.	69		7.1
Small/Medium mammal sp.	23		2.4
Small mammal sp.	4		.4
Mammal sp.	82		8.4
TOTAL	975		100.0

Nearly five times as many cow elements were identified as opposed to bison bones. Olsen (1977) was used to distinguish between the two species; where doubt existed the bone in question was assigned to the Bovid taxa. Other than cow, the only domesticates included in the sample were pig and horse. Pig made up four percent of the sample, horse was represented by a single bone.

Four wild species in addition to bison were identified in the sample. Pronghorn and Cervid (elk/moose) were only minimally represented, 69 red fox bones were recovered, but they are primarily skull bones from one individual, and the Leporidae family comprised 6.67% of the mammalian elements.

4.2.2 Avian Elements

Avian elements comprise 14.3% of the Privy 1 sample, 25% being assignable to one of 15 taxa (Table 6). Water birds (herons, geese and ducks) account for 20.04% of the elements. While the faunal sample was highly identifiable, insufficient comparative faunal collections prohibited identification beyond family in most cases.

The highest percentage of the avian collection belongs to the Tetraonidae family. Chicken elements were the most numerous, followed by Sharp-tailed grouse. Where uncertainty existed, the element was classed as Tetraonidae sp.

The presence of three avian species included in this sample is of interest. Ten percent of the avian collection belongs to the Corvidae

TABLE 6

Avian Element Identification, Privy 1

Species	No. of elements (248) identif. to zoolog. taxa below class	% total Avian elem. identif. to zoolog. taxa below class	% total (324) excavated Avian elements
Ardeidae sp.	1	.4	.3
Anseriformes sp.	4	1.6	1.2
Anatidae sp.	20	8.1	6.2
Olor columbianus (Ord) (Whistling Swan)	1	.4	.3
Anserinae sp.	4	1.6	1.2
Branta canadensis (Linnaeus) (Ganada Goose)	5	2.0	1.5
Chen caervlescens (Linnaeus) (Snow Goose)	5	2.0	1.5
Anatinae sp.	5	2.0	1.5
Anas sp.	1	.4	.3
Anas platyrhynchos Linnaeus (Mallard)	13	5.2	4.0
Mareca americana (Gmelin) (American Widgeon)	1	.4	.3
Aix sponsa (Linnaeus) (Wood Duck)	5	2.0	1.5
Galliformes sp.	3	1.2	.9
Tetraonidae sp.	23	9.3	7.1
Pedioecctes phasianellus (Linnaeus) (Sharp-tailed Grouse)	10	4.0	3.1
Gallus gallus domesticus (Domestic Chicken)	82	33.1	25.3
Meleagris sp.	1	.4	.3
Grus sp.	2	.8	.6
Grus americana (Linnaeus) (Whooping Crane)	1	.4	.3
Scolopacidae sp.	10	4.0	3.1
Ectopistes migratorius (Linnaeus) (Passenger Pigeon)	10	4.0	3.1
Passeriformes sp.	8	3.2	2.5
Corvidae sp.	16	6.5	4.9
Corvus sp.	1	.4	.3
Corvus brachyrhynchos Brehm (American Crow)	16	6.5	4.9
SUBTOTAL	248	99.9	
Large bird sp.	1		.3
Medium/Large bird sp.	11		3.4
Medium bird sp.	43		13.3
Small/Medium bird sp.	7		2.2
Small bird sp.	1		.3
Bird sp.	13		4.0
TOTAL	324		99.7

family (crows/raven). Were these birds eaten as food items? Or were the occupants of the fort simply removing a nuisance by killing them? The inclusion of very small birds (Passiforms) must also be questioned. Of special note are the ten passenger pigeon bones. This species is now extinct.

4.2.3 Osteichthyes

One third of the Privy 1 faunal assemblage is made up of fish elements (Table 7). Thirteen taxa are represented, all of which are locally available, and all are generally considered highly edible. The most numerous species are walleye, sucker, goldeye, and whitefish. Three quarters of the fish elements were unidentifiable. This was due to the type of elements recovered (spines and rays) and insufficient comparative faunal collections.

TABLE 7

Osteichthyes Element Identification, Privy 1

Species	No. of elements (184) identif. to Zoolog. taxa below class	% total Fish elem. identif. to zoolog. taxa below class	% total (748) excavated Fish elements
Coregonus sp.	10	5.4	1.3
Coregonus artedii Lesueur (Lake Herring)	2	1.1	.3
Coregonus clupeaformis (Mitchell) (Lake Whitefish)	21	11.4	2.8
Hiodon alosoides (Rafinesque) (Goldeye)	24	13.0	3.2
Cyprinus carpio Linnaeus (Carp)	4	2.2	.5
Catostomus sp.	4	2.2	.5
Catostomus catostomus (Forster) (Longnose Sucker)	16	8.7	2.1
Catostomus commersoni (Lacepede) (Whitenose sucker)	22	12.0	2.9
Ictaluridae sp.	1	.5	.1
Ictalurus sp.	1	.5	.1
Ictalurus punctatus (Rafinesque) (Channel Catfish)	1	..5	.1
Percopsis omiscomaycus (Walbaum) (Trout-perch)	1	.5	.1
Perciformes sp.	1	.5	.1
Percidae sp.	3	1.6	.4
Perca flavescens (Mitchell) (Yellow Perch)	1	.5	.4
Stizostedion sp.	1	.5	.1
Stizostedion vitreum (Mitchell) (Walleye)	70	38.0	9.4
Aplodinotus grunniens Rafinesque (Freshwater Drum	1	.5	.1
SUBTOTAL	184	99.6	24.2
Fish sp.	564		75.4
TOTAL	748		99.6

4.3 PRIVY 2

The number of faunal remains recovered from Privy 2 is substantially smaller than from Privy 1. The diversity of species is also not as great.

4.3.1 Mammalian Elements

Mammal remains comprise 25.54% of the sample. Only 15.77% was identifiable to a zoological taxa below class. However, the same trends as were seen in Privy 1 prevail. Domesticates dominate the sample with Bovidae elements being the most numerous. Only two bison elements and fourteen snowshoe hare elements were identified. These two are the only "wild" species included in the sample.

TABLE 8

Mammalian Element Identification, Privy 2

Species	No. of elements (50) identif. to zoolog. taxa below class	% total Mamm. elem. identif. to zoolog. taxa below class	% total (317) excavated mammal elements
Homo sapiens Linnaeus (Man)	2	4.0	.6
Leporidae sp.	1	2.0	.3
Lepus americanus Erxleben (Snowshoe hare)	14	28.0	4.4
Artiodactyl sp.	3	6.0	.9
Bovidae sp.	13	26.0	4.1
Bison bison (Linnaeus) (Bison)	2	4.0	.6
Bos taurus (Domestic cow)	5	10.0	1.6
Ovis aries (Domestic sheep)	3	6.0	.9
Sus scrofa (Domestic pig)	7	14.00	2.2
SUBTOTAL	50	100.00	15.6
Large mammal sp.	78		24.6
Medium/Large mammal sp.	24		7.6
Medium mammal sp.	5		1.6
Small/Medium mammal sp.	5		1.6
Mammal sp.	155		48.9
TOTAL	317		99.9

4.3.2 Avian Elements

Only sixty-four avian elements were recovered from Privy 2; of these only eighteen were identifiable to a zoological taxa below class. Once again, waterfowl and chicken/grouse elements were the most numerous.

TABLE 9

Avian Element Identification, Privy 2

Species	No. of elements (18) identif. to zoolog. taxa below class	% total Avian elem. identif. to zoolog. taxa below class	% total (64) excavated Avian elements
Anas sp.	4	22.2	6.3
Anas platyrhynchos Linnaeus (Mallard)	6	33.8	9.4
Tetraonidae sp.	1	5.5	1.6
Gallus gallus domesticus (Domestic chicken)	5	27.7	7.8
Grus sp.	1	5.5	1.6
Coccyzus sp.	1	5.5	1.6
SUBTOTAL	18	100.2	28.3
Large bird sp.	27		42.2
Medium/Large bird sp.	5		7.8
Medium bird sp.	4		6.3
Bird sp.	10		15.6
TOTAL	64		100.2

4.3.3 Osteichthyes Elements

Fish elements dominate the sample. However, of the 774 elements recovered, only 54 were identifiable to one of seven taxa. The most numerous were Coregonus sp., Ictalurus sp., and Hiodon sp. All were available locally.

TABLE 10

Osteichthyes Element Identification, Privy 2

Species	No. of elements (65) identif. to zoolog. taxa below class	% total Fish elem. identif. to zoolog. taxa below class	% total (800) excavated Fish elements
Coregonidae sp.	18	27.7	2.3
Coregonus artedii (Lesueur) (Lake Herring)	6	9.2	.8
Coregonus clupeaformis (Mitchell) (Lake Whitefish)	9	13.8	1.1
Hiodon sp.	1	1.5	.1
Hiodon alosoides (Rafinesque) (Goldeye)	8	12.3	1.0
Catostomidae sp.	1	1.5	.1
Ictalurus sp.	1	1.5	.1
Ictalurus nebulosus (Lesueur) (Brown Bullhead)	10	15.4	1.3
Perca flavescens (Mitchell) (Yellow Perch)	4	6.2	.5
Stizostedion vitreum (Mitchell) (Walleye)	7	10.2	.9
SUBTOTAL	65	99.9	9.1
Fish sp.	735		91.9
TOTAL	800		100.0

4.4 BUTCHERING

Ten percent of the total sample (Privies 1 and 2) show signs of butchering. Those bones which showed intentional cutting with a saw, cleaver, or large knife to make a certain shape or cut were classified as "butchered."

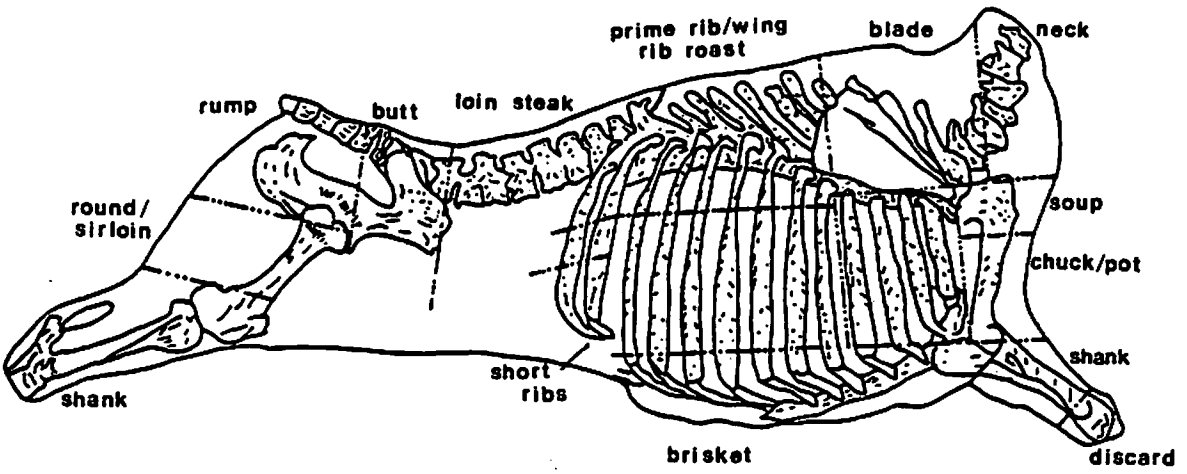
These bones were assigned to a particular "cut" on the basis of the Parks Canada Butchering Units (1982). This classification system represents a combination of standardized Anglo-Canadian-American carcass divisions. It identifies the bones or portions of bones that would be represented by each butchering unit. It does not deal with the tools or

the methods used to achieve these cuts. Therefore, it is easy to apply this system to comparative faunal samples because only three basic pieces of information are required for each bone, namely the element represented, the presence or absence of butchering marks, and a taxonomic identification.

The system is structured the same way for cow (beef), pig (pork), and sheep (lamb).[1] Carcass divisions are grouped into hind cuts, front cuts, and general cuts, and then subdivided into basic butchering units (shank, brisket, butt, etc.). The terminology is consistent throughout, thereby facilitating comparisons. The classification of cow butchering units has been designed to accommodate the larger Artiodactyl species such as Bison, Alces or Rangifer. Thus this system can accommodate bones which are identifiable only to the taxonomic level of order and allows comparison of wild versus domestic animal utilization.

Figures 6, 7, and 8 illustrate and define the butchering cuts of beef, pork, and lamb. The major sectioning of the bones comes at the lines indicating major carcass divisions.

[1] "Lamb" is used in preference to "mutton" to be consistent with modern meat terminology.



1. Hind Cuts

   a) shank - all tarsals, tibia, fibula, distal articulating femur
   b) round/sirloin - femur shaft
   c) rump - proximal articulating femur, posterior pelvis
   d) butt - anterior pelvis (½ acetabulum forward)
   e) loin steak - lumbar vertebrae

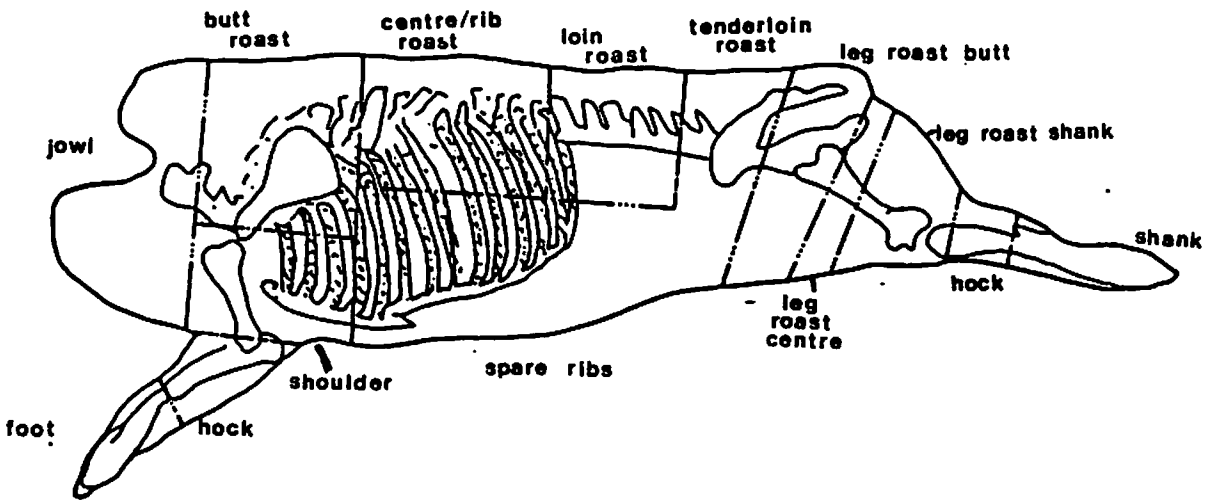
2. Front Cuts

   a) shank - all carpals, radius, ulna, distal articulating humerus
   b) chuck/pot roast - humerus shaft
   c) soup bones - proximal articulating humerus, glenoid fossa
   d) blade steak/roast - scapula (less glenoid fossa)
   e) neck - cervical vertebrae
   f) rib roast - thoracic vertebrae

3. General Cuts

   a) prime rib/wing - proximal section all ribs
   b) short ribs - medial section all ribs
   c) brisket - distal section all ribs, sternum

Figure 6: Beef: Major Butchering Cuts and Carcass Divisions (Parks Canada Artifact Analysis Manual for Historical Archaeology, 1982)



1. Hind Cuts

   a) shank - all tarsals, distal articulating tibia
   b) hock - tibia shaft, fibula
   c) leg roast, shank - proximal articulating tibia, distal half femur
   d) leg roast, centre - femur shaft
   e) leg roast, butt - proximal articulating femur, pelvis less ilium
   f) tenderloin roast - ilium, sacrum
   g) loin roast - lumbar vertebrae

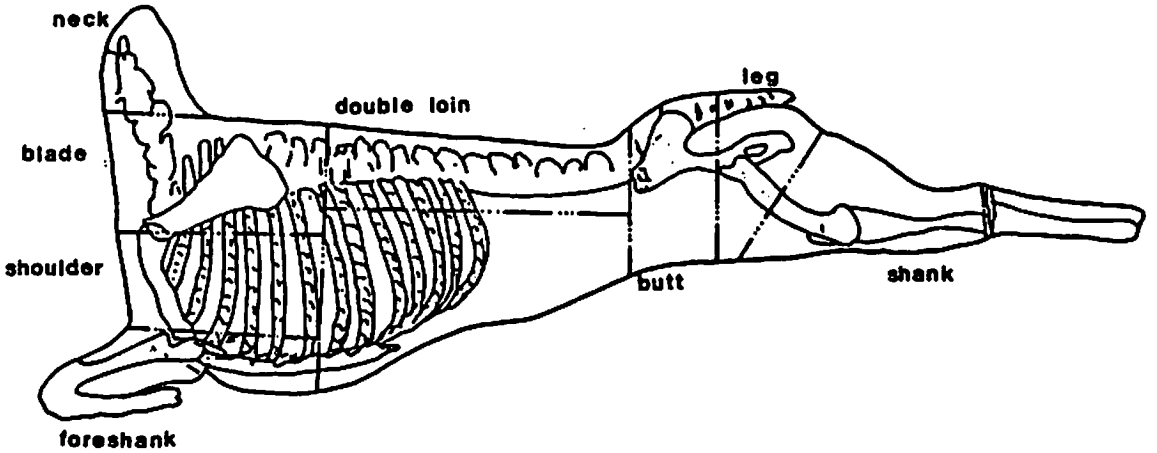
2. Front Cuts

   a) centre/rib roast - thoracic vertebrae (proximal rib section)
   b) butt roast - scapula
   c) jowl - cervical vertebrae
   d) shoulder - humerus less distal articulation (see General cuts)
   e) hock - radius, ulna, distal articulating humerus
   f) foot - all carpals, phalanges

3. General Cuts

   a) spare ribs - all of rib but proximal section (distal plus medial section)
   b) whole shoulder roast - whole rib

Figure 7: Pork: Major Butchering Cuts and Carcass Divisions (Parks Canada Artifact Analysis Manual for Historical Archaeology, 1982)



1. Hind Cuts

   a) shank - all tarsals, distal articulating tibia and fibula
   b) leg of lamb - rest of tibia and fibula, femur, posterior pelvis
   c) butt - anterior pelvis
   d) double loin chops - lumbar vertebrae

2. Front Cuts

   a) rib loin chops - thoracic vertebrae, proximal rib section
   b) blade - scapula (except possibly a portion of the glenoid fossa), part of proximal articulating humerus
   c) neck - cervical vertebrae
   d) shoulder - humerus (see General cuts)
   e) foreshank - all carpals, radius, ulna

3. Genral Cuts

   a) spare ribs - all of rib but proximal section (i.e. distal plus medial sections)
   b) whole shoulder roast - whole rib

Figure 8: Lamb: Major Butchering Cuts and Carcass Divisions (Parks Canada Artifact Analysis Manual for Historical Archaeology, 1982)

4.4.1 Privy 1

There were fourteen butchered cow bones representing eleven different cuts recovered from Privy 1. The majority of the bones were sawn, but two had been cleaved or cut with a large knife. Hind cuts and front cuts are equally represented in the sample.

Only two bison bones bear butchering marks. These are a femoral head and thoracic vertebrae representing a rump roast and rib roast respectively. Both bones were sawn.

Seventy-two bones belonging to the Bovidae family were butchered. Hind cuts dominated the sample, the most frequent being loin steak, followed by rump roast, shank, butt, and round/sirloin. There were twenty-seven bones which were assignable to front cuts. Sawing seems to have been the preferred butchering method as only ten of the bones were cut or cleaved.

The butchered large mammal bones are primarily assignable to four cuts: short ribs, rib roast, prime rib wing, and brisket. These include sixty rib fragments which, due to the nature of the butchering methods, are unidentifiable to a smaller taxonomical class. In general, the ribs have been initially cut into two pieces, a third and two-thirds of the way down the rib shaft to create a groove. The bones were then snapped along the grooves. Also included in the large mammal butchering class are a number of long bone and vertebral fragments which have been sawn and/or cut, but the exact element is unidentifiable. In other words, this class was used as a catch-all in terms of taxon and element.

However, knowing the subsistence patterns of the Red River Settlement, it is probable that these bones belong to the Bovid or cow family.

There were sixteen sheep bones recovered from Privy 1 which bore butchering marks. Hind cuts and front cuts were equally represented. Bones assignable to these cuts had been sawn, although the "general cut" bones (spare ribs and whole shoulder roast) had been cut and snapped.

The fifteen butchered pig bones showed the same trends as were seen with the species previously discussed. Hind and front cuts were equally represented and all but one had been sawn.

4.4.2 Privy 2

Very few butchered bones were recovered from Privy 2. In total, there were thirty-seven mammalian bones bearing saw and/or knife or cleaver marks. Most of these were classified as large mammal bones and represent a variety of cuts: neck, rib roast, brisket, blade, and short ribs. Bison, cow, pig, and sheep were minimally represented by one or two butchered bones each.

With so few bones representing several cut types, it is hard to identify butchering trends or food preferences. However, in comparison with the Privy 1 sample, no differences were noted in the actual butchering techniques or the resulting cuts of meat.

Chapter V

INTERSITE COMPARISON AND STATISTICAL ANALYSIS

5.1 INTRODUCTION

Privy 1 and Privy 2 collections were compared with each other and with two other sites from the Red River Valley. Finding comparative faunal collections from sites within the Red River and Assiniboine Valley proved to be a difficult task. Only nine sites, in addition to Upper Fort Garry, have been excavated in this geographical area. These sites were Brandon House, Fort Gibraltar, Garden Site, Lower Fort Garry, Fort Garry Gate, Hospital/Jail (Fort Garry Place), Lane's Post, St. Peter's, and Delorme House. Faunal remains from three of the sites, namely Fort Garry Gate, Fort Garry Place and Lane's Post, have not been identified.

Brandon House and Fort Gibraltar predate Upper Fort Garry. In addition, very few, if any, domesticates were identified from the recovered elements, possibly because they predate historic agriculture in the Red River Valley. The Lower Fort Garry collection, although extensive, dates to the time period of the Country Club House, thereby postdating the fort. The Garden Site also presented a more than ample collection, but raw identifications were not available and major problems with discrepancies and interpretations exist in the site report. Thus, only the faunal collections from St. Peter's and Delorme House were available for comparative purposes.

Although these two sites were used, it should be noted that problems exist with their samples as well. St. Peter's Church Dynevor was excavated by the Historic Resources Branch, CHR as part of their pre-impact assessment program. A very small area was excavated, and only a small number of faunal materials was recovered. Screens were not employed, so fish and small bird and mammal bones were probably missed. The Delorme House site yielded a large number of bones, but it was extremely hard to correlate them with the Delorme occupation. Only two areas yielded artifacts which fell within the time range of the Delorme occupation and have therefore been interpreted as Delorme family refuse deposits.

5.2 ST. PETER'S CHURCH DYNEVOR

Excavations were conducted on the grounds of St. Peter's Church Dynevor in the summer of 1983 by the Historic Resources Branch, Culture, Heritage, and Recreation. The site (EbLf-28) is located on the east bank of the Red River north of Selkirk and is the oldest native mission site in western Canada. Reverend William Cockran, the first Protestant missionary at the Red River settlement "labored hard and zealously to collect a few Indians together in order to induce them to throw off their savage habits, and lead a settled life, with a view to their moral and religious improvement" (Ross, 1856: 279). By the spring of 1832, he had convinced three Native families to settle at the extreme lower end of the colony. Additional families joined this small community, known as the Indian Community. Cockran writes,

> We have now got 9 small houses built at the Indian Settlement. The houses are about 24 ft in length and from 15 to 16 ft in

> breadth. They are sufficiently large to admit of a cellar in the centre of the room to deposit the potatoes which may be raised by the proprietor of the house (CMS Records, PAM MG7/82).

A wooden church was started in 1836 and was completed the following year. This structure was replaced in 1853 by a stone building. A school house was constructed in 1834, and a windmill was constructed in 1835 (McLeod and Hart, 1986: 1).

The excavations at the site were initiated

> in response to development at St. Peter's Church Dynevor by the Manitoba ARC Authority Inc. in 1983. The ARC Authority constructed a small parking lot and washroom facility north of the church in close proximity to a series of [9] depressions (McLeod and Hart, 1986: 1).

Two one meter square units were dug in one of the depressions. The upper levels were shovelled; lower levels were trowelled. Unit 1 was excavated in the centre of the feature, to a depth of 105 cm. A total of 629 artifacts were recovered; no foundation remains were noted. Unit 2 was excavated at the northern edge of the feature. It was dug to a depth of 85 cm, with 185 artifacts recovered. A rock concentration, indicative of a stone foundation, was encountered at the northwest corner of this unit. Few dateable artifacts were recovered, although the presence of an earthenware sherd with the "Camilla" pattern (post-1833), an 1845 British threepence coin, and a liquor bottle (1860-1890) suggest the deposit dates from 1833 to 1890.

Hand-wrought nails and various construction hardware comprised approximately 23% of the total sample. Based on the relatively early dates recorded and the number of nails and construction hardware, it is believed that this feature "excavated at St. Peter's Church probably

represents a cellar depression that lay beneath one of the buildings constructed at the Indian Settlement" (McLeod and Hart, 1986: 5).

In total, 374 faunal elements were recovered (Tables 11 and 12). Mammals comprised 38.77% of the sample. Both wild and domesticated species were represented to varying degrees.

TABLE 11

List of Identified Fauna, St. Peter's Church, Dynevor

Cow	Bald Eagle	Northern Pike
Bison	Goose	Goldeye or Mooneye
Elk	Pelican	Sucker
Pig	Swan	Walleye
Marten	Canada Goose	Catfish
Muskrat	Mallard Duck	Bullhead
Rabbit		Channel Catfish
Ground Squirrel		Drumfish

Source: McLeod and Hart (1986: 10).

Cow and pig were the only two domesticates identified and made up only 3.5% of the total sample. A wide variety of wild game was identified, species included bison, elk, marten, muskrat, rabbit, and squirrel. Fish made up 38.50% of the sample; eight species were represented. Six avian species were identified and comprised 13.64% of the sample. No domesticated species were noted.

Thus, despite the period of agricultural success from the late 1830s to mid 1850s, the Natives continued to rely on wild game to supplement their diet. This could either have been in the form of subsistence

TABLE 12

Faunal Elements Identified to Species, St. Peter's Church

Species	Elements Recovered	% of Total Excavated Mammalian Elements	% of Total Sample
Cow	8	5.5	
Cow/Bison	4	2.8	
Bison	7	4.8	
Pig	5	3.5	
Elk	6	4.1	
Marten	11	7.6	
Muskrat	1	.7	
Rabbit	6	4.1	
Squirrel	12	8.3	
Large Mammal	30	20.7	
Medium Mammal	38	26.2	
Small Mammal	17	11.7	
Total Mammal	145	100.0%	38.77%
Pelican	1	2.0	
Eagle	1	2.0	
Goose	3	5.9	
Duck	2	3.9	
Swan/Duck/Goose	8	15.7	
Bird	6	11.8	
Large Bird	3	5.9	
Medium Bird	24	47.1	
Small Bird	3	5.9	
Total Bird	51	100.2%	13.64%
Fish	144		38.50%
Mollusc	1		.27%
Unidentified	33		8.82%
TOTAL	374	100.0%	100.00%

during crop failures or as a way to obtain money and/or supplies through sales of furs (McLeod and Hart, 1986: 9).

Butchering marks were found on 36 elements. These bones represented five possible beef cuts: chuck or pot roast, round or sirloin steak, and short ribs. The bones were not consistently butchered and a variety of tools (saws, knives, axes, and cleavers) were used.

5.3 DELORME HOUSE

The Delorme House is located on the west bank of the Red River, south of Winnipeg, near the town of St. Adolphe. It was built by Pierre Delorme between 1851 and 1865. Delorme was a rather well-to-do gentleman and well-respected within the community. On December 30, 1870, Delorme was one of six Metis elected to the provincial legislative assembly (McLeod, 1982: 6). The following year he ran in the federal riding of Provencher and was elected to the House of Commons. Delorme was also one of the principal personalities of the Red River resistance and a member of Louis Riel's provisional government (McLeod, 1982: 6).

The Delorme site was excavated during the summers of 1980 and 1981. The 1980 excavations were directed by Deborah J. Campbell and were conducted in and directly around the house (McLeod, 1982: 1). Dave McLeod directed the 1981 excavations in the areas north and east of the house. The site was extensively tested archaeologically, but only two areas were securely dateable to the Delorme occupation. Area A, the north kitchen wing, dated to the 1850s. Area B, the dairy/granary, dated from 1861 to the 1880s.

> Area A was excavated in 1 meter-square units dug by trowel in 5 cm levels, 2 levels at a time. Area B was initially excavated by two shovel test trenches, one along the east-west axis and one along the north-south axis of the site. A series of 1 meter-square excavation units was later placed east of the building foundation where a concentration of artifacts had been produced in Transit A (McLeod, 1982: 19).

A total of 3505 bones were recovered from the two areas at the Delorme site. Of the 533 bones recovered from Area A, only 126 or 23.6% could be identified (McLeod, 1982: 30) (Table 13).

> A variety of species is represented by the Area A bone assemblage, with the remains of both wild and domestic species present. The wild species include bison, moose, rabbit, and fish. Domesticates include pig, cow, and cat. The duck and goose elements were likely domesticated as well (McLeod, 1982: 62).

There were no repeated bone elements, thus the MNI for all species was one.

Area B had a much higher frequency of bone fragments. Of the 2972 bones recovered, only 12.3% could be identified (Table 13). Both wild and domestic species were represented. Pig elements made up 16.6% of the identified species, large mammals represented 64.7% of the unidentifiable total (McLeod, 1982: 168).

Comparisons were made between sites of which the occupants and their social position within the Red River community were known. Upper Fort Garry, Delorme House, and the native village at St. Peter's Church represent upper, middle, and lower class people as defined by the Red River society.

TABLE 13

Faunal Elements Identified to Species, Delorme House

Species	Elements Recovered Area A	Area B	Total	% of Total Excavated Elements	% of Total Sample
Cow	8	45	53	1.7	
Cow/Bison	11	30	41	1.3	
Bison	2	2	4	.1	
Sheep		9	9	.3	
Pig	30	61	91	2.9	
Moose	1		1	.1	
Cervidae	1		1	.1	
Rodentia	13	6	19	.6	
Rabbit	3	10	13	.4	
Cat	1	17	18	.6	
Large Mammal	38	866	904	28.8	
Medium Mammal	73	69	142	4.5	
Small Mammal	40	11	51	1.6	
Mammal	110	1686	1796	57.1	
TOTAL			3143	100.0%	89.67%
Goose	1	5	6	2.4	
Duck	13	21	34	13.8	
Chicken	12	1	13	5.3	
Large Bird	20	20	40	16.2	
Medium Bird	53	28	81	32.8	
Small Bird	44	13	57	23.1	
Bird		16	16	6.5	
TOTAL			247	100.1%	7.04%
Freshwater Drum	1	5	6	7.4	
Walleye		1	1	1.2	
Fish	39	35	74	91.4	
TOTAL			81	100.0%	2.31%
Mollusc	17	15	32		.91%
Amphibian	2		2		.06%
TOTAL	533	2972	3505		99.99%

5.4 STATISTICAL ANALYSIS

As discussed in Chapter 1, faunal material, if representative of the foods eaten, should reflect the social and economic position of the consumers. In the archaeological evidence, this may be expressed through observable differences in the cuts of meat and the species represented. The four collections were compared using a chi-square test to see if there were statistically significant differences in terms of species utilization and body part/butchering cuts preferred. Because of the varying size of the four collections, it was only possible to compare them statistically at a gross level.

5.4.1 Chi-Square Tests

Three chi-square tests were conducted. For each test, a probability of 95% (α = .05%) was accepted because of the smallness of the sample size that was dealt with.

The first chi-square test was performed to see if there was a difference in reliance upon the three major taxonomic classes: mammal, bird, and bony fish. The null hypothesis stated that mammal, bird, and fish species were equally utilized at the two Upper Fort Garry sites, the Delorme site, and the St. Peter's site.

The chi-square test result for class use was chi-square 2580.30 within six degrees of freedom. This result is unacceptably large given a significance level of 0.05, and so the null hypothesis was rejected.

TABLE 14

Observed and Expected Values (NISP) for Mammal, Bird, and Fish

	Mammal		Bird		Fish		
	ob	ex	ob	ex	ob	ex	Total
UFG Privy 1	975	(1332.55)	324	(199.39)	748	(515.80)	2048
UFG Privy 2	317	(768.43)	64	(115.10)	800	(297.47)	1181
Delorme	3143	(2258.44)	247	(338.27)	81	(874.28)	3471
St. Peter's	145	(221.22)	51	(33.14)	144	(85.64)	340
Total	4580		686		1773		7039

The values in the table for the first chi-square test reveal differences in the consumption of mammal, bird, and fish among the four sites. The Delorme collection represents a heavy dependence upon mammalian species for food. Fish elements comprise only 2.3% of the entire sample. By contrast, at Upper Fort Garry Privy 2 (UFG2), fish remains dominate. At St. Peter's and Upper Fort Garry Privy 1 (UFG1), fish elements almost equal the number of mammalian elements. Although this does not mean that both mammals and fish contributed equally to the diet, it does reflect relative usage. Thus, at the Delorme site, it would appear that fish played a minor role in the consumers' diets. The preponderance of fish bone in the UFG2 collection may reflect a higher reliance on fish for food. However, the kind of fish elements recovered in this sample would have to be considered before making any definite statements because fish have so many more bones per individual than most individuals from the other zoological classes.

The table also illustrates that bird species did not contribute as much to the diet at Delorme and UFG2 as they did at both UFG1 and St. Peter's.

A chi-square test was also applied to the data to see whether wild or domestic species were preferred by the consumers. The comparison was done at the family level with Bovidae (cow, sheep), Suidae and Equidae classified as domestic and the following species classified as wild: Leporidae, Sciuridae, Crictidae, Mustilidae, Corvidae, Antilocapridae, and Bovidae (bison). The null hypothesis stated that wild and domestic species were utilized equally at the two Upper Fort Garry sites and the Delorme and St. Peter's sites.

The result of the chi-square test was chi-square 110.75 with three degrees of freedom. This result is unacceptably large given a significance level of 0.05, and the null hypothesis was rejected.

This chi-square test was conducted using the minimum number of individuals per species (MNI). In the UFG1 and UFG2 collections, there appears to be an almost equal number of wild and domestic animals represented in each. This does not mean, however, that wild and domestic speciees were equally important to the consumer's diet at Upper Fort Garry. The domestic species (cow, sheep, pig) would have provided, on the whole, more meat per individual than the game species represented (rabbit, squirrel, muskrat). At Delorme House, however, the dietary emphasis appears to have been on domestic species. Very few elements from game animals are represented in this collection. On the other hand, wild species dominate the St. Peter's collection.

TABLE 15

Observed and Expected Values (MNI) for Wild and Domestic Species

	Wild		Domestic		
	ob	ex	ob	ex	Total
UFG Privy 1	73	(55.34)	69	(86.66)	142
UFG Privy 2	17	(11.30)	12	(17.70)	29
Delorme	19	(63.53)	144	(99.47)	163
St. Peter's	43	(21.83)	13	(34.17)	56
Total	152		238		390

Finally, a chi-square test was employed to see if there was a difference between Upper Fort Garry and the Delorme-St. Peter's collections in their selection of body parts of cow, pig, and sheep. The null hypothesis stated that the Upper Fort Garry and Delorme-St. Peter's collections would be equal in their selection of body parts of cow, pig, and sheep.

The result of the chi-square test was 28.61 with five degrees of freedom. This result is unacceptably large given a significance level of 0.05; hence, the null hypothesis was rejected.

TABLE 16

Observed and Expected Values (NISP) for Cow, Pig, and Sheep

	Podial and Metapodial		Radius, ulna, Tibia, fibula		Femur and Innominate		Humerus and Scapula		Vertebrae		Ribs		TOTAL
	ob	ex	ob	ex	ob	ex	ob	ex	ob	ex	ob	ex	
UFG Privy 1 UFG Privy 2	12	(30.36)	18	(21.05)	13	(12.24)	11	(9.30)	38	(29.38)	26	(15.67)	118
Delorme St. Peter's	50	(31.64)	25	(21.95)	12	(12.76)	8	(9.27)	22	(30.62)	6	(16.33)	123
Total	62		43		25		19		60		32		241

The samples from the four sites reflect significant differences in body part selection of domestic animals for consumption purposes. The Delorme and St. Peter's collections contain a greater number of lower leg bones than the UFG1 and UFG2 collections. These bones (lower leg) are associated with less meatier, poorer quality, and less expensive meat cuts. In comparison, UFG1 and UFG2 samples have a greater number of central body bones (vertebrae, ribs) than the St. Peter's and Delorme collections. These central body bones reflect meat cuts which are meatier, of a higher quality, and more expensive.

The null hypothesis was rejected in all three cases. It was concluded that the chi-square tests were indicative of dissimilarity in the samples in terms of species utilization and body part selection.

5.4.2 Analysis of Variance and T-Tests

In order to compare the preference for specific butchering units between the sites, an analysis of variance was attempted. The butchering units utilized were described in an earlier section. The minimum number of times each cut was represented in each sample was calculated; these were ranked from most expensive to cheapest in terms of their monetary value. This ranking was based on a combination of modern beef prices set by Canada Safeway Ltd. and historic prices from the mid-nineteenth century Sacramento area (Schulz and Gust, 1983: 50).

Table 17 compares both sets of data, showing that there was little difference in the ranking of beef from past to present. In fact, only three anomalies exist. Today sirloin is slightly more expensive than rib roast or prime rib wing, and blade is more expensive than rump. A shank cut is more expensive than a neck cut. The price differences are minimal and to be consistent with previous studies the historic ranking from Schulz and Gust will be accepted for this study.

After determining the rankings that would be utilized, an analysis of variance and a t-test were attempted, but the sample size of butchered bones at a minimum number level was too small for the results to be statistically significant. The tests were not attempted using the number of identifiable specimens (NISP) values because of the problems

TABLE 17

Comparison of Historic and Recent Prices of Beef Cuts

Historic Cut	Historic Rank	Recent Rank	Recent Cut
Loin Steak	1	1	Loin steak ($14.97)
Butt/Rib Roast/ Prime Rib Wing	2	2	Butt ($9.02)/Rib Roast ($7.69)/ Prime Rib Wing ($7.91)
Round/Sirloin	3	3	Round ($7.47)/ Sirloin ($8.14)
Rump	4	5	Rump ($5.55)
Blade	5	4	Blade ($6.15)
Short Rib/Cross Rib/ Chuck Pot/Soup	6	6	Short Rib ($5.04)/ Cross Rib ($6.57)/ Soup ($4.37)
Neck	7	8	Neck ($4.13)
Hind Shank/Foreshank	8	7	Hind shank/fore shank ($4.37)

The price given for a Cross Rib roast is for a boneless one and is therefore artificially high.

Source: Schulz and Gust, 1983: 50; Canada Safeway Ltd.

inherent with this approach (Grayson, 1978: 53-65). The number of elements per cut varies greatly, so that any comparison based on the number of bones and not the cuts represented would be of little value.

Certain trends are visible at a purely descriptive level. Keeping the same ranking system for cow and Bovid sp., the minimum number of times each unit was represented for all four calculations was determined. This is illustrated in Figures 9, 10, and 11. It clearly shows that the Upper Fort Garry privy collections contain a higher

percentage of expensive cuts compared to the St. Peter and Delorme House sites, where greater percentages of cheaper cuts predominate.

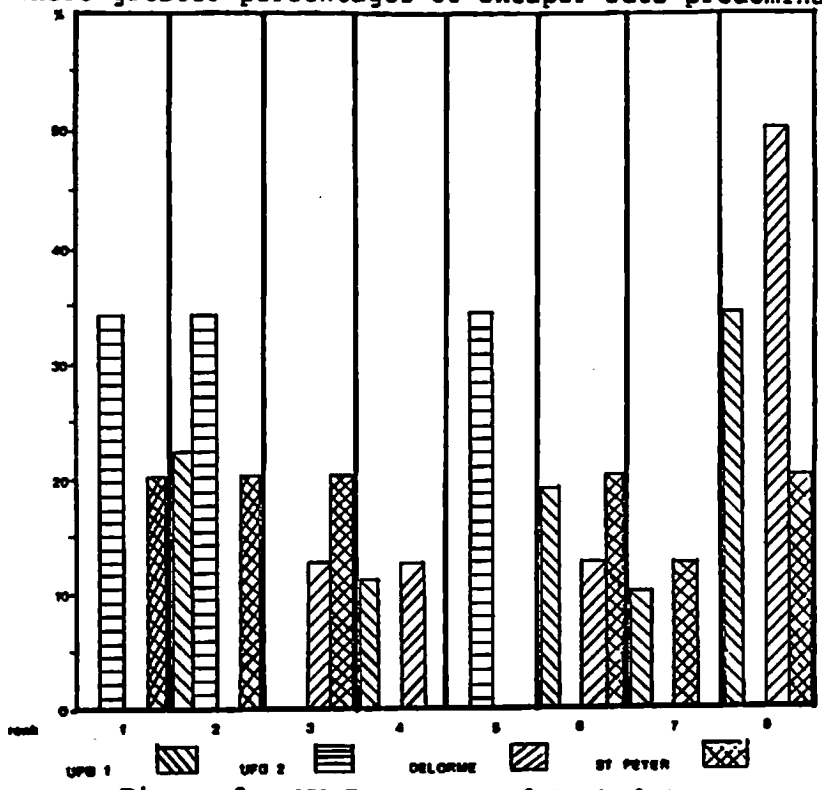


Figure 9: MN Frequency of Ranked Cuts: Cow

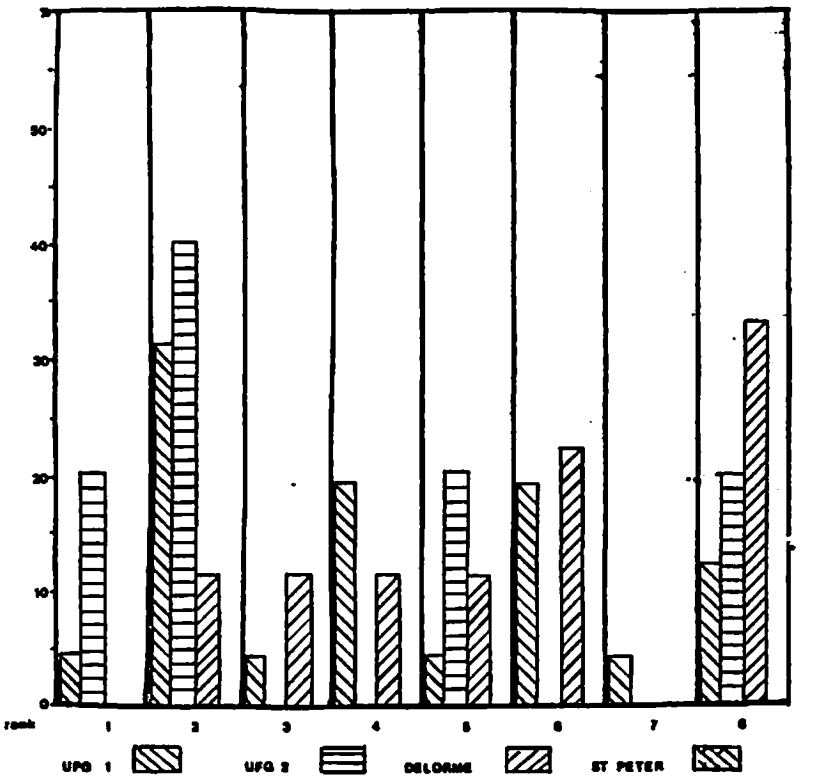


Figure 10: MN Frequency of Ranked Cuts: Bovid sp.

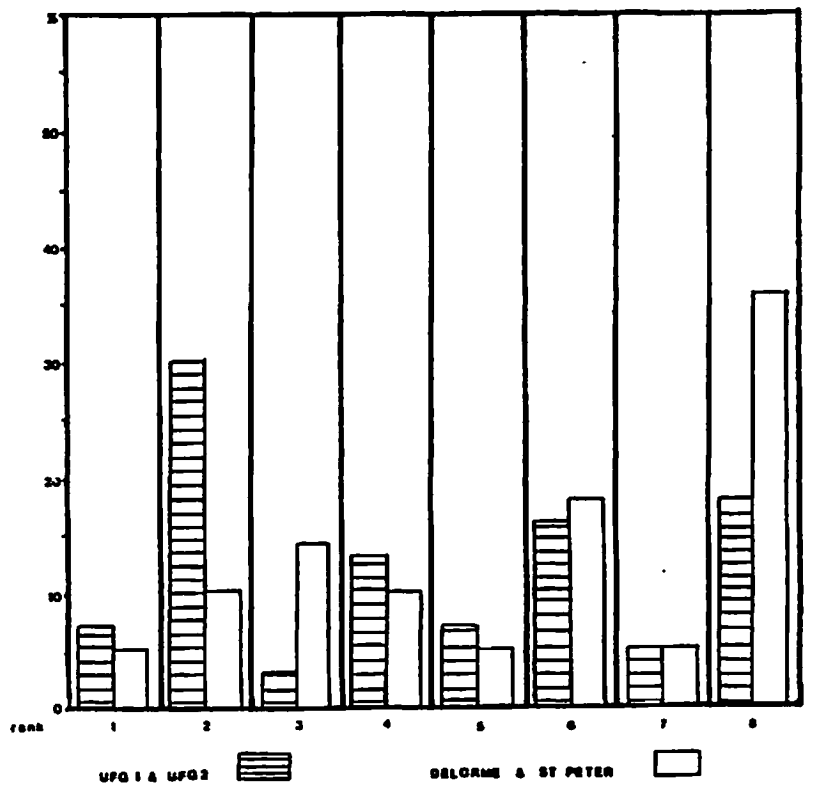


Figure 11: MN Frequency of Ranked Cuts: Cow and Bovid sp.

5.5 ARCHIVAL EVIDENCE

An intensive study was undertaken to determine the price of meat, pork, and mutton in the Red River Settlement. This was an attempt to achieve a better understanding of the economic setting during the mid-1800s. Prices were obtained from a variety of sources, including the HBC Transfer and Account Books for both Upper and Lower Fort Garry and York Factory, and the Nor'wester and Hargrave's Journals. These archival and documentary sources did provide information regarding the monetary cost of the meat available for consumption. However, as can be seen from Table 18, there is little to no price differentiation during the years in which the Sixth Regiment occupied Fort Garry. It is only by the late 1800s that "luxury" items are represented through monetary value in the price indices.

This is not to say that all foods were equally available or that the same quality of meat was equally available to all. The HBC store appears to have been the principal regulator. For example, Warburton, a soldier with the Royal Canadian Rifles posted at Upper Fort Garry in the 1850s described the Fort as "a lonesome and bleak place, no such thing as I'll go and buy this or I'll go and buy that, you can get nothing to buy, beg, or borrow, the Company store is pound (for?), we can get no butter, they supply us with groceries".

Although Warburton was at the fort a decade after the time period in question, one can assume that a similar situation existed in the 1840s. The shopkeeper was ultimately responsible for deciding which local inhabitants were worthy of credit, for ensuring the Company made a

1846:

TABLE 18

Price Lists, 1846-1871

	1846	1847	1848	1859	1866	1871
Domestic Beef (per lb)		2d	2.5d	2.5d	2d	
Veal	2.5d		2.5d			
Buffalo Meat (per lb)				2d	2d	
Pork (per lb)			2.5d	4d	8.5d	
Ham	13/4	13/4	13/4			
Mutton (per lb)			2.5d		8d	
Salt Pork	4d	4d				
Pemmican (per lb)			2d	4d	4d	1s
Dried Meat (per lb)	2.5d	2d	2.5d	3d	2d	8d
Corned Beef			4d			
Moose Meat					8d	
Moose Nose					2/6	
Chicken					1s	
Beaver Tail					2/6	
Buffalo Tongues	10d	9d	10d	1/3	1s	
Bosses			9d		2/6	

s = shilling
d = pence
/ = shillings/pence

12 pence = 1 shilling
20 shillings = 1 pound

profit on the goods sold (Loewen and Monks, 1986: 18). Knowing the power of the HBC and the influence it had in the RRS, it is probable that the shopkeeper imposed the Company's hierarchical ranking and thus may have offered excellent quality goods to the upper class and average or substandard quality goods to the lower classes.

Decisions of a social nature were also made in the fort and executed throughout the store. J.F. Crofton noted in his journal on 23 December 1846:

> The settlers are on this day, and will tomorrow also be, allowed to purchase rum at the Company's store, for their Christmas festivities (Loewen and Monks, 1986: 20).

There also appears to have been differential access to goods within the HBC, including food, according to the hierarchical ranks of the Company. In addition to wages, the Company offered board and lodging as an economic inducement to potential recruits (Goldring, 1979: 145). "The journals and account books imply distinctions between the ranks in terms of differential consumption of goods" (Hamilton, 1985: 384).

Several menu and requisition forms exist from the mid-1800s, indicating the food given to HBC officers and HBC clerks. There is a notable difference in diet between the two. Table 19 gives the supplies for Gentlemen and Male Servants at Lower Fort Garry for the year 1861-1862. Gentlemen received a more varied diet, one made up entirely of fresh meat. The male servants received a plainer diet, of which 63% was dried or processed meat and only 37% being fresh meat.

TABLE 19

HBC Records for Lower Fort Garry, 1861-1862

Male Servants	- 4330 lb. pemmican; 4976 lb. fresh beef; 2275 lb. salt beef; 1038 lb. dried meat; 1237 lb. salt pork; 181 lb. sturgeon; 16 lb. ham
Gentlemen	- 2735 lb. fresh beef; 84 ducks; 48 doz. eggs; 507 whole fish; 31 fowl (chickens); 9 geese; 233 lb. ham; 437 lb. mutton; 8 sturgeon

Source: Livermore (1976: 129).

This is reinforced by the Officer's Menu from York Factory for December 1838 (Table 20). Officers there received fish, partridge, pork, roast beef, rabbit, salt beef, venison, salt geese, ducks, geese, ham, and tongue.

In 1846, the HBC was given the contract of supplying food for the Sixth Regiment. Because the Regiment was associated with the upper echelons of the HBC it would be expected that they were served the equivalent of an officer's diet. This appears to be corroborated by the archival data. The Company originally offered salted beef to fulfill its obligations, but the soldiers refused it and demanded fresh meat. "As the host of a force which had been instrumental in bringing to the Colony, the Company could do little but accede to the requests" (Ingram, 1970: 50).

The archaeological data parallels the archival data. The Upper Fort Garry Privy 1 collection contains all of the food items which comprised an officer's diet: fish, partridge, pork, fresh beef, rabbit, venison, geese, ducks, and mutton. This perhaps is inconclusive in that almost all of the species are found in the three other collections. Absent from both Privy 2 and St. Peter's is lamb and sturgeon. St. Peter's also lacks partridges, as does the Delorme collection. However, as indicated by the statistics, there is a definite difference in dependence upon various species and selection of body parts for consumption. The faunal collection from St. Peter's shows a reliance on wild animals for subsistence. From the Delorme House assemblage it is obvious that domestic animals were of primary importance to the diet.

TABLE 20

HBC Bill of Fare (Officers), York Factory, 1838

Date	Breakfast	Dinner
1	Fried fish	Soup, stewed partridge, pork chops, potatoes, cheese
2	Beef steak	Soup, roast beef, potatoes, pudding, cheese
3	Fried fish	Soup, stewed rabbit, boiled partridge, potatoes
4	Fried fish	Soup, venison pie, boiled partridge, potatoes, tart
5	Fried fish	Soup, roast beef, potatoes, cheese
6	Fried fish	Soup, roast pork, curried partridge, potatoes
7	Fried fish	Soup, salt beef, potatoes, pudding, cheese
8	Fried fish	Soup, roast venison, beef steak, potatoes, cheese
9	Beef steak	Soup, roast beef, pudding, cheese
10	Fried fish	Soup, stewed rabbit, partridges, potatoes
11	Fried fish	Soup, venison pie, venison steaks, potatoes, tart
12	Fried fish	Soup, roast beef, potatoes, cheese
13	Fried fish	Soup, roast pork, partridge, potatoes
14	Fried fish	Soup, salt geese, ducks, potatoes, pudding
15	Fried fish	Soup, roast venison, curried partridge, potatoes
16	Beef steak	Soup, roast beef, potatoes, pudding, cheese
17	Fried fish	Soup, roast partridge, stewed rabbit, potatoes
18	Fried fish	Soup, venison pie and steaks, potatoes, tart
19	Fried fish	Soup, roast beef, potatoes, cheese
20	Fried fish	Soup, roast pork, potatoes, cheese
21	Fried fish	Soup, salt geese, curried fish, potatoes, pudding
22	Fried fish	Soup, roast partridge, stewed rabbit, potatoes
23	Beef steak	Soup, roast beef, potatoes, pudding, cheese
24	Fried fish	Soup, roast venison, potatoes, cheese
25	Fried fish & beef steak	Soup, roast beef, geese, potatoes, mince pies, pudding
26	Fried fish	Soup, roast beef, potatoes, cheese
27	Fried fish	Soup, roast beef, potatoes, boiled ham and tongue, mince pies
28	Fried fish	Soup, boiled pork, potatoes, peas, suet pudding
29	Fried fish	Soup, roast venison, potatoes, cheese
30	Fried fish	Soup, roast beef, potatoes, pudding, cheese
31	Fried fish	Soup, curried rabbit, roast partridge, potatoes

Source: Beaver (1923: 453).

In both Privy 1 and Privy 2 collections the actual number of elements from wild and domestic animals are basically equal, but the domestic animals - cows, pigs, and sheep - would have supplied more meat to the diet. Fish, waterfowl, rabbit, and venison would have been used primarily to add variety to the diet.

As was seen in the statistical analysis, different parts of the body were selected as food items at the four different sites. At Upper Fort Garry, primarily expensive cuts were selected: loin steaks, butt, rib roasts, and prime rib wing. These equate to meatier parts of the body, namely the upper leg, pelvis area, and the vertebral column. Only 37 butchered mammal bones were recovered from Privy 2 as compared to the 121 butchered mammal bones from Privy 1. The difference in amounts is primarily a function of variation in sample size. In comparing the Privy 1 and Privy 2 collections, no differences were noted in the actual butchering techniques or the resulting cuts of meat. Both collections have a higher percentage of high ranked meat cuts than low ranked meat cuts. The butchered Bovid bones from St. Peter's and Delorme House are largely cheaper cuts: short ribs, chuck/pot roasts, soup bones and shank cuts. Similarly, these represent less meatier and hence poorer quality parts of the body.

Chapter VI

CONCLUSIONS

The analysis of the faunal remains from Upper Fort Garry was undertaken with three objectives:

1. To reconstruct the pattern of animal utilization during the occupation of Fort Garry with respect to the relative importance of species and butchering practices employed;
2. To compare the reconstruction with historical and archaeological records of animal use in the Red River Settlement and surrounding areas during the mid-1800s; and
3. To examine the relationship between diet and economic pattern by identifying patterns within the reconstruction and subsequent comparisons which may reflect the economic status of the consumers.

The methods employed to achieve these objectives are outlined in Chapter 3. The methods include the identification and analysis of approximately five thousand bones, and a thorough investigation of archival and documentary sources relating to the mid-1800s.

During the course of excavations at Upper Fort Garry (DILg-21), two privy/refuse pits were uncovered. Only the faunal material recovered from these two structures was analyzed for a number of reasons. Very few bones were recovered from units outside the privy structures and

those that were were found within the fill. In addition, the two structures provided a large enough sample for statistical purposes (i.e. to be representative).

A variety of artifactual material, including glass, ceramics, textiles, and newspapers was used to date the structures (Fifik, 1986: 70-92). Based on this archaeological evidence, it is believed that Privy 1 was in use during the Sixth Regiment of Foot's occupation of Upper Fort Garry, 1846-1848. Indications of the presence and use of the structure by the army include metal military items bearing the insignia of the Sixth Regiment and two fragments of cloth with the names of two of the Regiment's soldiers stamped on them. Privy 2 lacks any military related artifacts and appears to postdate Privy 1 (post-1848).

Chapter 2 describes the development and slow expansion of agricultural pursuits in the Red River Valley. The early settlers had to contend with numerous setbacks such as locusts, frosts, floods, inadequate equipment, and poor storage facilities. Not only were they hundreds of miles away from a viable market in which to sell their goods, but the HBC, whose main interests lay in the fur trade, controlled the small market which was locally available. Even under these adverse conditions, however, the settlers managed to produce food for themselves and to supply the fur trade. Country produce included pemmican, dried meat, cured buffalo tongue, small buffalo bosses, fresh beef, salted pork, fresh pork, cured pork hams, mutton, lard, onions, cabbage, potatoes, butter, cheese, flour, eggs, and wheat.

While relying primarily on agricultural produce for subsistence, the surrounding environment was not ignored. Rabbits, geese, ducks, grouse, fish, and large game animals provided temporary sources of supplies during periods of hardship and added variety to the everyday diet.

Chapter 2 thus outlined the food resource base available to the residents in the Red River valley and the subsistence strategies they employed. It was suggested that there was a differential reliance on domestic and wild products depending upon economic and/or social position and on the time period in Red River history. English and Scottish settlers were primarily agriculturalists, but the native populations relied most heavily upon wild resources, although they did have access to and occasionally produced their own domestic products. The Metis during the early days of the Red River Settlement had been heavily involved in the bison hunts but as herds decreased they turned more and more to agricultural pursuits.

Social status was defined primarily on the basis of economic class. Within the Red River Settlement during the first half of the nineteenth century, a person's occupation was closely aligned with their social position and ethnic affiliation. The social structure of the society was that of a pyramidal hierarchy. In this sense the structure of the Hudson's Bay Company was of a type similar to the social structure of the Red River Settlement. Defining characteristics included ethnic identity, religion, and occupation. At the top of this structure was the Governor of Assiniboia, head of the Red River Settlement and the Hudson's Bay Company (Northern Territories). The next level of the

hierarchy was composed of Hudson's Bay Company officers, civic administrators, and functionaries. These people were primarily Scottish or English. Agriculturalists and skilled tradesmen made up the third tier of the hierarchy. Traditionally these roles were filled by Orkney men, Highlanders, and Englishmen, although by the mid-1800s English-speaking Metis were breaking into these ranks. At the bottom of the hierarchy were the servants, labourers, and seasonal employees. These roles were filled for the most part by natives and English and French-speaking Metis. The Sixth Regiment of Foot was directly associated with the upper echelons of the Hudson's Bay Company and therefore with the Red River Settlement.

As discussed in Chapter 1, food remains provide an excellent data base from which to study economic structuring. Diets are universally characteristic in that they are culture-specific and sometimes even specific to different members in a culture group. It was suggested that if food items are viewed as economic goods, they should reflect the socioeconomic status of their consumers. Thus people belonging to a higher socioeconomic level may be able to enjoy a diet which is more expensive to maintain given the local environment (Reitz and Cumbaa, 1983: 159). In the archaeological evidence, this may be expressed through observable differences in the cuts of meat represented, the species represented in the sample, and the age of the butchered animal.

The faunal material from the privies at Upper Fort Garry were identified to the smallest possible zoological taxon. Special note was made of any natural or cultural modifications (e.g. rodent/carnivore

gnawing, cut marks, heat exposure). Butchered bones were analyzed more closely and were assigned to a particular cut on the basis of the Parks Canada manual.

Research into the relative cost of cuts of meat and meat by-products was completed and the results are outlined in Chapter 4. Although little or no price differentiation was noted during the years in which the Sixth Regiment occupied the fort, the archival evidence clearly suggests differential access to the goods based on social position.

The faunal analysis of the two privies demonstrated a reliance by the consumers on domestic animals for subsistence. Ten percent of the total sample (Privies 1 and 2) were butchered. Butchering cuts were studied and their relative economic cost was assessed. The cuts were ranked from most to least expensive in terms of their monetary value, which was based primarily on the quantity and quality of the meat supplied by each cut. The Upper Fort Garry collections demonstrated a preference for expensive cuts: loin steaks, butt, rib roasts and prime rib wing.

In terms of species utilization, there does not appear to be a difference between UFG1 and UFG2. Mammalian elements dominate the UFG1 collection, whereas fish elements are most numerous in the UFG2 collection. The heavier preponderance of fish bone in Privy 2 may reflect a greater reliance on fish for food. Bird elements make up 15.8% of the Privy 1 sample, whereas they comprise only 5.5% of the UFG2 sample. This also suggests differences in selection and consumption of food items.

The comparison of the faunal assemblage for Delorme House and St. Peter's Church Dynevor suggest differences in terms of species utilization and meat cuts selected. The St. Peter's collection demonstrated a reliance on wild animals by the natives for subsistence. From the Delorme House assemblages it is obvious that domestic animals were of primary importance in the family's diet. The butchered Bovid bones from both St. Peter's and Delorme House are largely cheaper cuts: short ribs, chuck/pot roasts, soup bones, and shank cuts. This selection was interpreted as representing economic necessity as opposed to taste preferences.

Statistical analysis of the data was successful at a gross level. However, the smallness of the sample size of butchered bone from all four collections precluded any statistically significant testing. Thus, analysis of economic variability was conducted at a purely descriptive level. Minimum numbers of beef cuts were used as the unit of analysis because of the problems inherent in NISP values (deceptive frequencies and potential interdependence of counted bone specimens). The cost-efficiency of beef cuts was not utilized as the unit of analysis because too many uncontrollable variables were involved. Most importantly, "it is not possible to demonstrate empirically that cost-efficiency of beef purchases as reflected by meat yield is tightly correlated with purchasing power, income level, or economic class" (Lyman, 1987: 62).

This thesis examined the faunal material material from three sites in the Red River Valley: Upper Fort Garry, Delorme House, and St. Peter's

Church Dynevor. A thorough examination was conducted of the archival sources relating to the period in question (1812-1850). This extensive research provided an excellent understanding of the time period and society in question, thereby allowing a more accurate interpretation of the cultural context from which the faunal collection was derived. Although the historical data accumulated was regionally and temporally limited, a methodological framework for the economic analysis of faunal samples was successfully established. The results of this particular analysis indicate differing animal utilization in terms of species and body parts selected. The choice of food items reflect different social and economic contexts at each of the sites examined.

Thus, in conclusion, faunal material can be a vital tool in assessing the economic position of the consumers and aid greatly in the interpretation of Upper Fort Garry.

BIBLIOGRAPHY

Artibise, Alan F.J. and Edward H. Dahl. Winnipeg in Maps 1816-1972. Ottawa: National Map Collection, Public Archives of Canada, 1975.

Balcom, R.J. A Regional Approach to the Study of Diet During the First Century of the Hudson Bay Company Fur Trade in Rupert's Land. Winnipeg: M.A. Thesis, University of Manitoba, 1981.

Barth, Frederick (ed). Ethnic Groups and Boundaries. Oslo: Universitets Forlaget, 1969.

Bell, Charles Napier. The Old Forts at Winnipeg, 1738-1927. Winnipeg: Dawson Richardson Publications Ltd., 1927.

Binford, Lewis R. "Archaeology as Anthropology." American Antiquity, 28, 217-225, 1962.

Bowen, Joanne. "Probate Inventories: An Evaluation from the Perspective of Zoology and Agricultural History at Mott Farm." Historical Archaeology, 9, 11-24, 1975.

Brose, D.S. "The Custer Road Dumpsite: An Exercise in Victorian Archaeology." Michigan Archaeologist, 13, 1, 37-128, 1967.

Cardinal, Pierre. Archaeological Exploration in the South Latrine Sector of the St. Louis Bastion. Ottawa: Research Bulletin No. 232, Parks Canada, 1985.

Carillo, Richard F. "Archaeological Variability - Sociocultural Variability." In Research Strategies in Historical Archaeology (S. South, ed). New York: Academic Press, 1977, pp. 73-78.

Carter-Edwards, Dennis. The Fort Wellington Latrine. Cornwall: Unpublished manuscript, Environment Canada, Parks, 1986.

Chism, J.V. "Excavations at Lower Fort Garry, 1965-1967: A General Description of Excavations and Preliminary Discussions." Archaeology and History, 5, Ottawa, Parks Canada, 1972.

Clark, E. Leland. "The Place of the Metis Within the Agricultural Economy of the Red River." The Canadian Journal of Native Studies, 3, 1, 69-84, 1983.

Cleland, C.E. "Comparison of the Faunal Remains from French and English Pits at Fort Michilimackinac: A Study in Changing Subsistence Patterns." History and Archaeology, 3, 3-23, 1971.

Cowan, Anna M. "Memories of Fort Garry." The Beaver September Outfit, 266, 2, 25-30, 1935.

Daly, P. "Approaches to Faunal Analysis in Archaeology." American Antiquity, 34, 2, 146-153, 1969.

Deagen, K. "Avenues of Inquiry in Historical Archaeology." In Advances in Archaeological Method and Theory (M.B. Schiffer, ed). New York: Academic Press, 1982, pp. 151-177.

_____. Spanish St. Augustine: The Archaeology of a Colonial Creole Community. New York: Academic Press, 1983.

Deslauriers, Helene. The Dauphine Officer Latrines, Artillery Park, Quebec City: Summary of Findings. Ottawa: Research Bulletin No. 229, Parks Canada, 1984.

Douglas, William. "'The Forks' Becomes a City." In Papers Read Before the Historical and Scientific Society of Manitoba (C. WIlson, ed). Winnipeg: Advocate Printers Ltd, 1945, pp. 51-80.

Drucker, Lesley M. "Socioeconomic Patterning at an Undocumented Late 18th Century Low Country Site: Spiers Landing, South Carolina." Historical Archaeology, 15, 2, 58-69, 1981.

Ewen, Charles R. "Fur Trade Archaeology: A Study of Frontier Hierarchies." Historical Archaeology, 20, 15-28, 1986.

Fifik, Gail. Fatorics from Upper Fort Garry: Unusual Archaeological Evidence. Winnipeg: M.A. Thesis, University of Manitoba, 1986.

Friesen, Gerald. The Canadian Prairies. London: University of Toronto Press, 1984.

Gifford, Diane P. and Diane C. Crader. "A Computer Coding System for Archaeological Faunal Remains." American Antiquity, 42, 2, pp. 225-238, 1977.

Goldring, Philip. Papers on the Labour System of the Hudson's Bay Company 1821-1900: Volume 1. Ottawa: Manuscript Report No. 362, Parks Canada, 1979.

Gould, Julius and William Kolb (eds). A Dictionary of the Social Sciences. New York: The Free Press, 1964.

Grayson, D.K. "Minimum Numbers and Sample Size in Vertebrate Faunal Analysis." American Antiquity, 43, 1, 53-65, 1978.

Guilday, J.E. "Animal Remains from Archaeological Excavations at Ft. Ligonier." In Experimental Archaeology (D. Ingersoll, J. Yellen, W. MacDonald, eds). New York: Columbia University Press, 1977, pp. 121-132.

Guinn, Rodger. The Forts at the Junction of the Red and Assiniboine Rivers. Ottawa: Research Bulletin No. 128, Parks Canada, 1980.

_____. The Red-Assiniboine Junction: A Land Use and Structural History, 1770-1980. Ottawa: Manuscript Report No. 355, Parks Canada, 1980.

Hamilton, J. Scott. The Social Organization of the Hudson's Bay Company. Edmonton: M.A. Thesis, University of Alberta, 1985.

Hamilton, Scott. The Social Organization of the HBC: The Brandon House Case. Paper presented at the XVIth Annual Chacmool Conference, Calgary, 1985.

Hargrave, Joseph. Red River. Montreal: John Lovell, 1871.

Heizer, R.F. and S.F. Cook. "The Application of Quantitative Methods in Archaeology." Viking Fund Publications, Anthrop. No. 28. Chicago: Quadrangle Books, 1960.

Herskovitz, R. Fort Bowie Material Culture. Tucson: Anthropological Papers of the University of Arizona No. 31, University of Arizona Press, 1978.

Hesse, Brian and Paula Wapnish. Animal Bone Archaeology. Washington: Taraxacum Inc., 1985.

Hodder, Ian. "Economic and Social Stress and Material Culture." American Antiquity, 44, 446-54, 1979.

_____. "Theoretical Archaeology: A Reactionary View." In Symbolic and Structural Archaeology (Ian Hodder, ed). Cambridge: Cambridge University Press, 1982, pp. 1-16.

Hudson's Bay Company Archives. B. 235/d/99, 1846/47.

_____. B. 235/d/105, 1847/48.

_____. B. 235/d/106, 1847/48.

_____. B. 235/d/107.

_____. B. 235/3/108, 1848.

_____. B. 239/ee/52, 1847.

_____. B. 239/ee/53, 1847.

_____. B. 239/ee/55, 1848.

_____. B. 239/ee/56, 1848.

Hutton, W.H. "HBC Expedition from Fort Garry to Kentucky." The Beaver, 1, 9, 10-12, 1921.

Ingersoll, W.E. "Remnants at Fort Garry." The Beaver Outfit, 273, 3, 14-17, 1945.

Ingram, G. "Industrial and Agricultural Activities at Lower Fort Garry." History and Archaeology, 4, 93-164, 1970.

Innis, Harold A. The Fur Trade in Canada. Toronto: University of Toronto Press, 1956.

Jolley, R. "North American Historic Zites: Zooarchaeology." Historical Archaeology, 17, 64-79, 1983.

Judd, Carol. "Native Labour and Social Stratification in the HBC's Northern Department, 1770-1870." Canada Rev. and Anth. 17, 4, 305-314, 1980.

Kavanagh, M. The Assiniboine Basin. Winnipeg: The Public Press, 1946.

Kelly, Michael. Under the Wall: An Archaeological Consideration of the 1850 Government House Compound Palisade at Upper Fort Garry. Paper presented at the Plains Conference, Bismarck, North Dakota, 1981.

Larcombe, Linda. Ceramics as Indicators of Economic Variation in the Red River Settlement. M.A. Thesis, University of Manitoba, 1988.

Livermore, Carol. Lower Fort Garry, the Fur Trade, and the Settlement at Red River. Ottawa: Manuscript Report No. 202, Parks Canada, 1976.

Loewen, Brad and Gregory Monks. A History of the Structures at Upper Fort Garry, Winnipeg, 1835-1837. Ottawa: Parks Canada, Microfiche Report Series No. 330, 1986.

Loewen, Brad and Gregory Monks. "Visual Depictions of Upper Fort Garry." Prairie Forum, 1-24, 1988.

Losey, T.C. "The Relationship of Faunal Remains to Social Dynamics at Fort Enterprise, Northwest Territories." In Historical Archaeology in Northwestern North America (K. Fladmark, ed). Calgary: University of Calgary Press, 1973, pp. 133-143.

Lyman, R. Lee. "Analysis of Historic Faunal Remains." Historical Archaeology, 11, 67-73, 1977.

_____. "Available Meat from Faunal Remains: A Consideration of Techniques." American Antiquity, 44, 3, 536-546, 1979.

_____. "Archaeofaunas and Subsistence Studies." In Advances in Archaeological Method and Theory (M.B. Schiffer, ed). New York: Academic Press, 1982, pp. 331-393.

_____. "On Zooarchaeological Measures of Socioeconomic Position and Cost: Efficient Meat Purchases." Historical Archaeology, 21, 58-66, 1987.

Macbeth, Rev. R.G. "Farm Life in the Selkirk Colony." The Winnipeg Free Press, Winnipeg, 1897.

MacKay, D. "In Old Fort Garry Ninety Years Ago." The Beaver Outfit, 269, 3, 26-28, n.d.

MacLeod, Margaret Arnett. "Winnipeg and the Hudson's Bay Company." The Beaver Outfit, 280, 1, 3-7, 1949.

McGuire, Randall H. "The Stuidy of Ethnicity in Historical Archaeology." Journal of Anthropological Archaeology, 1, 159-178, 1982.

McLeod, K. David. Archaeological Investigations at the Delorme House (DKLg-18), 1981. Papers in Manitoba Archaeology. Final Report No. 13. Winnipeg: Department of Cultural Affairs and Historical Resources, 1982.

McLeod, K. David and Elisa J. Hart. "Excavations at St. Peter's Church Dynevor." Manitoba Archaeological Quarterly, 10, 4, 1-15, 1986.

Miller, George L. "Classification and Economic Scaling of 19th Century Ceramics." Historical Archaeology, 14, 1-40, 1980.

Miquelon, D. "A Brief History of Lower Fort Garry." Archaeology and History, 4, 9-41, 1970.

Monks, Gregory C. "Preliminary Report on Archaeological Investigations in Bonnycastle Park, 1981." Manitoba Archaeological Quarterly, 6, 3, 46-61, 1982.

_____. "Preliminary Report on Archaeological Investigations in Bonnycastle Park, 1982." Manitoba Archaeological Quarterly, 7, 4, 3-29, 1983a.

_____. Status and the Fur Trade in the Northern Department, 1821-1870. Paper presented at the XVIth Annual Chacmool Conference, Calgary, 1983b.

_____. "Preliminary Report on Archaeological Investigations in Bonnycastle Park (Upper Fort Garry), 1983. Manitoba Archaeological Quarterly, 8, 3-4, 30-50, 1984.

Moodie, D.W. and Barry Kaye. "Taming and Domesticating the Native Animals of Rupert's Land. The Beaver, Winter 1976, 10-19.

Morrison, W.R. "The Sixth Regiment of Foot at Lower Fort Garry." Archaeology and History, 4, 165-174, 1970.

Morton, W.L. Manitoba: A History. Toronto: University of Toronto Press, 1967.

_____. "The 1870 Outfit at Red River." The Beaver, 300, 4-11, 1970.

Murray, S. The Valley Comes of Age. Fargo: North Dakota Institute for Regional Studies, 1967.

Olsen, S.J. Zooarchaeology: Animal Bones in Archaeology and their Interpretation. Addison-Wesley, 1971.

Otto, J.S. "Artifacts and Status Differences: A Comparison of Ceramics from Planter, Overseer, and Slave Sites on an Antebellum Plantation." In Research Strategies in Historical Archaeology (S. South, ed). New York: Academic Press, 1979, pp. 91-118.

Parks Canada. Artifact Analysis Manual for Historical Archaeology (Dana-Mae Grainger, ed). Winnipeg: Parks Canada, 1982.

Priess, Peter J. Archaeological Investigations at Upper Fort Garry. Ottawa: Research Bulletin No. 125, Parks Canada, 1980.

Public Archives of Canada. James Anderson Papers, MG19 A19, Mackenzie River District Report, 1857, p. 127.

Pyszczyk, H.Z. The Fort Victoria Faunal Analysis: Considerations of Subsistence Change of the Fur Trade Era in North Central Alberta. Manitoba: M.A. Thesis, University of Manitoba, 1978.

Rathje, W.L. and M. McCarthy. "Regularity and Variability in Contemporary Garbage." In Research Strategies in Historical Archaeology (S. South, ed). New York: Academic Press, 1979.

Reitz, E. and S. Cumbaa. "Diet and Foodways of Eighteenth Century Spanish St. Augustine." In Spanish St. Augustine (K. Deagan, ed). New York: Academic Press, 1983, pp. 151-227.

Ross, Alexander. The Red River Settlement. London: Smith, Elder & Company, 1856.

Schiffer, M.B. "Archaeological Context and Systemic Context." American Antiquity, 37, 156-165, 1972.

Schulz, P. and S. Gust. "Faunal Remains and Social Status in 19th Century Sacramento." Historical Archaeology, 17, 1, 44-53, 1984.

Schuyler, Robert. "Historical and Historic Sites Archaeology as Anthropology: Basic Definitions and Relationships." In Historical Archaeology: A Guide to Substantive and Theoretical Contributions (R.L. Schuyler, ed). New York: Baywood Farmingdale, 1978a, pp. 27-31.

Shay, C. Thomas. Aspects of Ethnobotany in the Red River Settlement in the Late 19th Century. Paper presented at the XVIth Annual Chacmool Conference, Calgary, 1985.

South, S. Method and Theory in Historical Archaeology. New York: Academic Press, 1977a.

_____. Research Strategies in Historical Archaeology. New York: Academic Press, 1977b.

_____. "Pattern Recognition in Historical Archaeology." American Antiquity, 43, 223-251, 1978.

_____. "Historic Site Content, Structure, and Function." American Antiquity, 44, 213-237, 1979.

Sprague, D.N. and R.P. Frye. "Manitoba's Red River Settlement: Manuscript Sources for Economic and Demographic History." Archivia, 9 (Winter 1979-1980), 179-193, 1980.

_____. The Genealogy of the First Metis Nation. Winnipeg: Pemmican Publications, 1983.

Sprenger, G. Herman. "The Metis Nation: Buffalo versus Agriculture in the Red River Settlement (ca. 1810-1870). Western Canadian Journal of Anthropology, 3, 1, 1972.

Sussman, Lynne. "The Ceramics of Lower Fort Garry: Operation 1 to 31." History and Archaeology, 24, 1979.

Uerpmann, H.P. "Animal Bone Finds and Economic Archaeology: A Critical Study of 'Osteo-Archaeological' Method." World Archaeology, 4, 307-332, 1973.

The Nor'Wester, May 14, 1860, and November 17, 1866.

White, T.E. "A Method of Calculating the Dietary Percentage of Various Food Animals Utilized by Aboriginal Peoples." American Antiquity, 14, 396-398, 1953.

Wilson, J. and L.D. Southwood. "Ft. George on the Niagara: An Archaeological Perspective." History and Archaeology, 9, 1976.

Wing, E.S. and A.B. Brown. Paleo-Nutrition: Method and Theory in Prehistoric Foodways. New York: Academic Press, 1979.

Appendix A

CODING FORMAT

Column	Variable	Code
1-6	Site	DILg-21
7-10	North Unit	N 01-999
11-14	South Unit	S 01-999
15-16	Level	01-99
17-18	Stratum	01-99
19-22	Depth below stratum	1-9999
23-26	South provenience	1-9999
27-30	West provenience	1-9999
31-36	Catalogue number	1-99999
37-38	Class	Artifact analysis manual for historic archaeology, Parks Canada
39-48	Taxon	See Appendix
49-53	Anatomical Element	See Appendix
54-55	Portion of Element	See Appendix
56-57	Segment of Portion	See Appendix
58-60	Quantity	
61-66	Weight (grams)	000.00-999.99
67	Side	1=left; 2=right
68	Fusion	1=complete; 2=partial; 3=unfused; 4=one epiphysis fused, one missing

69	Eruption	0 or 1=complete eruption; 2=partial eruption; 3=unerupted
70-71	Burn	1=burn/charred; 2=calcined
72	Juvenile Cortex	1=present; 2=foetal
73	Break	1=present
74	Butchering	1=cut; 2=cut and sawn; 3=sawn; 4=split
75	Flake	1=a flake of bone; 2=a flaked object
76	Other	1=gnawed; 2=weathered, cortex flaking, or missing; 3=paint; 4=dental carie; 5=medullary bone; 6=drilled; 7=polished
77	Re-Examine	1=re-examine part; 2=re-examine taxon; 3=re-examine part and taxon
78-80	Bone Number	001-999

Appendix B

TAXONOMIC COMPUTER CODING SYSTEM

Class 01: Mammalian

ORDER	FAMILY	GENUS	SPECIES	DISCOVERER	COMMON NAME
Insectivora 01	Soricidae 01	Sorex 01	cinereus 01	Kerr	Masked Shrew
			vagrans 02	?	Wandering Shrew
			palustris 03	Richardson	American Watering Shrew
			arcticus 04	Kerr	Arctic Shrew
			*fumeus 05		Smoky Shrew
		Microsorex 02	hoyi 01	(Baird)	Pigmy Shrew
		Blarina 03	brevicauda 01	(Say)	Short-tailed shrew
	Talpidae 02	Condylura 01	cristata 01	(Linnaeus)	Star-nosed Mole
Chiroptera 02	Vespertilionidae 01	Myotis 01	lucifugus 01	(Le Conte)	Little-Brown Bat
			keenii 02	(Merriam)	Keen's Bat
		Lasionycteris 02	noctivagans 01	(Le Conte)	Silver-haired Bat
		Eptesicus 03	fuscus 01	(Palisot de Beavois)	Big Brown Bat
		Lasiurus 04	borealis 01	(Müller)	Red Bat
			cinereus 02	(Palisot de Beavois)	Hoary Bat
Primates 03	Hominidae 01	Homo 01	sapiens 01	Linnaeus	Man
Lagomorpha 04	Leporidae 01	Sylvilagus 01	floridanus 01	(J. A. Allen)	Eastern Cottontail
		Lepus 02	americanus 01	Erxleben	Snowshoe Hare
			townsendii 02	Bachman	White-tailed Jack Rabbit
			domestic 03	?	Domestic Rabbit
Rodentia 05	Sciuridae 01	Tamias 01	striatus 01	(Linnaeus)	Eastern Chipmunk
		Eutamias 02	minimus 01	(Bachman)	Least Chipmunk

Class 01: Mammalian continued

ORDER	FAMILY	GENUS	SPECIES	DISCOVERER	COMMON NAME
Rodentia 05	Sciuridae 01	Marmota 03	monax 01	(Linnaeus)	Woodchuck
		Citellus 04	richardsonii 01	(Sabine)	Richardon's ground squirrel
			tridecemlineatus02	(Mitchell)	13-lined ground squirrel
			franklinii 03	(Sabine)	Franklin's ground squirrel
		Sciurus 05	carolinensis 01	Gmelin	Grey/Black squirrel
			niger 02		Eastern Fox squirrel
		Tamiasciurus 06	hudsonicus 01	(Erxleben)	American Red-squirrel
		Glaucomys 07	sabrinus 01	(Shaw)	N. Flying squirrel
	Geomyidae 02	Thomomys 01	talpoides 01	(Richardson)	Northern Pocket Gopher
		Geomys 02	bursarius 01		Plains Pocket Gopher
	Heteromyidae 03	Perognathus 01	fasciatus 01		Olive-backed Pocket Mouse
	Castoridae 04	Castor 01	canadensis 01	Kuhl	Beaver
	Cricetidae 05	Peromyscus 01	maniculatus 01		Deer Mouse
			*leucopus 02		White-footed Mouse

Class 01: Mammalian Continued

ORDER	FAMILY	GENUS	SPECIES	DISCOVERER	COMMON NAME
Rodentia 05	Cricetidae 05	Reithrodontomys 02	*megalotis 01		Western Harvest Mouse
		Onychomys 03	leucogaster 01		Northern Grasshopper Mouse
		Clethrionomys 04	gapperi 01		Boreal Redback Vole
		Phenacomys 05	intermedius 01	Merriam	Heather Vole
		Microtus 06	ochrogaster 01 pennsylvanicus 02	(Wagner) (Ord)	Prairie Vole Meadow Vole
		Ondatra 07	zibethica 01	(Linnaeus)	Muskrat
		Synaptomys 08	borealis 01 cooperi 02	(Richardson)	Northern Bog Lemming Southern Bog Lemming
	Muridae 06	Rattus 01	**norvegicus 01	(Berkenhout)	Norway Rat
		Mus 02	**musculus 01	(Linnaeus)	House Mouse
	Zapodidae 07	Zapus 01	hudsonius 01 princeps 02	(Zimmerman)	Meadow Jumping Mouse Western Jumping Mouse

Class 01: Mammalian Continued

ORDER	FAMILY	GENUS	SPECIES	DISCOVERER	COMMON NAME
Rodentia 05	Zapodidae 07	Napaeozapus 02	insignis 01		Woodland Jumping Mouse
	Erethizontidae 08	Erethizon 01	dorsatum 01	(Linnaeus)	Porcupine
Carnivora 06	Canidae 01	Canis 01	latrans 01 lupus 02	Say Linnaeus	Coyote Wolf
		Vulpes 02	vulpes 01 fulva 02 velox 03	(Linnaeus)	Red Fox Coloured Fox Kit Fox
		Urocyon 03	cinereoargenteus 01	(Schreber)	Grey Fox
	Ursidae 02	Ursus 01	americanus 01 **horribilis 02	Pallas	Black Bear Grizzly Bear
	Procyonidae 03	Procyon 01	lotor 01	(Linnaeus)	Raccoon
	Mustelidae 04	Martes 01	americana 01 pennanti 02	(Turton) (Erxleben)	American Marten Fisher
		Mustela 02	erminea 01 frenata 02 rixosa 03 vison 04	Linnaeus Lichtenstein Schreber	Ermine Longtailed Weasel Least Weasel Mink

Class 01: Mammalian Continued

ORDER	FAMILY	GENUS	SPECIES	DISCOVERER	COMMON NAME
Carnivora 06	Mustelidae 04	Gulo 03	luscus 01		Wolverine
		Taxidea 04	taxus 01	(Schreber)	American Badger
		Mephitis 05	mephitis 01	(Schreber)	Striped Skunk
		Lontra 06	canadensis 01	(Schreber)	River Otter
	Felidae 05	Felis 01	concolor 01	Linnaeus	Mountain Lion
		Lynx 02	lynx 01 rufus 02	(Linnaeus) (Schreber)	Lynx Bobcat
Artiodactyla 07	Cervidae 01	Odocoileus 01	hemionus 01 virginianus 02	(Rafinesque) (Zimmerman)	Mule Dear White-tailed Deer
		Cervus 02	canadensis 01		Wapiti/Elk
		Alces 03	alces 01		Moose
		Rangifer 04	tarandus 01		Caribou
	Bovidae 02	Bison 01	bison 01	(Linneaus)	Bison

Class 01: Mammalian Continued

ORDER	FAMILY	GENUS	SPECIES	DISCOVERER	COMMON NAME
Artiodactyla 07	Bovidae 02	Bos 02	tauros 01		Domestic Cow
		Capra 03	hirca 01		Goat
		Ovis 04	aries 01		Sheep
	Suidae 03	Sus 01	scrofa 01		Pig
	Antilocapridae 04	Antilocapra 01	americana 01		Pronghorn
Perissodactyla 06	Equidae 01	Equus 01	caballus 01		Horse
Large 09					
Large-medium 10					
Medium 11					
Medium-small 12					
Small 13					

Class 03: Avian

ORDER	FAMILY	SUB-FAMILY	GENUS	SPECIES	DISCOVERER	COMMON NAME
Gaviiformes 01	Gaviidae 01		Gavia 01	immer 01	(Brunnich)	Common Loon
Podicipediformes 02	Podicipedidae 01		Podiceps 01	grisegena 01	(Boddaert)	Red-necked Grebe
			Podiceps 01	auritus 02	(Linnaeus)	Homed Grebe
			Podilymbus 02	podiceps 01	(Linnaeus)	Pied-Billed Grebe
Pelecaniformes 03	Pelecanidae 01		Pelecanus 01	erythrorhynchos 01	Gmelin	White Pelican
	Phalacrocoracidae 02		Phalacrocorax 01	auritus 01	(Lesson)	Double-crested cormorant
Ciconiiformes 04	Ardeidae 01		Ardea 01	herodias 01	Linnaeus	Great Blue Heron
			Casmerodius 02	albus 01	(Linnaeus)	Common Egret
			Nycticorax 03	nycticorax 01	(Linnaeus)	Blk-crowned night Heron
			Ixobrychus 04	exilis 01	(Gmelin)	Least Bittern
			Botaurus 05	lentiginosus 01	(Rackett)	American Bittern
Anseriformes 05	Anatidae 01	Cygninae 02	Olor 01	columbianus 01	(Ord)	Whistling Swan
			Olor 01	buccinator 02	(Richardson)	Trumpeter Swan (M)
		Anserinae 03	Branta 01	canadensis 01	(Linnaeus)	Canada Goose
			Anser 02	albifrons 01	(Scopoli)	White-fronted Goose (M)
			Anser 02	domesticus 02		Domestic Goose
			Chen 03	caerulescens 01	(Linnaeus)	Snow Goose (M)
			Chen 03	rossii 02	(Cassin)	Ross's Goose (M)

Class 03: Avian continued

ORDER	FAMILY	SUB-FAMILY	GENUS	SPECIES	DISCOVERER	COMMON NAME
Anseriformes 05	Anatidae 01	Anatinae 04	Anas 01	platyrhynchos 01	Linnaeus	Mallard
			Anas 01	rubripes 02	Brewster	Black Duck
			Anas 01	strepera 03	Linnaeus	Galdwell
			Anas 01	acuta 04	Linnaeus	Pintail
			Anas 01	carolinensis 05	Gmelin	Green-Winged Teal
			Anas 01	discors 06	Linnaeus	Blue-Winged Teal
			Anas 01	boschas domestica 07		Domestic Duck
			Mareca 02	americana 01	(Gmelin)	American Widgeon
			Spatula 03	clypeata 01	(Linnaeus)	Shoveler
			Aix 04	sponsa 01	(Linnaeus)	Wood Duck
		Aythyinae 05	Aythya 01	americana 01	(Eyton)	Redhead
			Aythya 01	collaris 02	(Donovan)	Ring-necked Duck
			Aythya 01	valisineria 03	(Wilson)	Canvasback
			Aythya 01	affinis 04	(Eyton)	Lesser Scaup
			Bucephala 02	clangula 01	(Linnaeus)	Common Golden Eye
			Bucephala 02	albeola 02	(Linnaeus)	Bufflehead
			Melanitta 03	deglandi 01	(Bonaparte)	White-winged Scoter
			Oidemia 04	nigra 01	(Linnaeus)	Common Scoter
		Oxyurinae 06	Oxyura 01	jamaicensis 01	(Gmelin)	Ruddy Duck
		Merginae 07	Lophodytes 01	cucullatus 01	(Linnaeus)	Hooded Merganser
			Mergus 02	merganser 01	Linnaeus	Common Merganser
			Mergus 02	serrator 02	Linnaeus	Red-breasted Merganser
Falconiformes 06	Cathartidae 01		Cathartes 01	aura 01	(Linnaeus)	Turkey Vulture
	Accipitridae 01		Accipiter 01	gentilis 01	(Linnaeus)	Goshawk
			Accipiter 01	striatus 02	Vieillot	Sharp-shinned Hawk

Class 03: Avian continued

ORDER	FAMILY	SUB-FAMILY	GENUS	SPECIES	DISCOVERER	COMMON NAME
Charadriiformes 09	Charadriidae 01		Charadrius 01	melodus 01	Ord	Piping Plover
			Charadrius 01	vociferus 02	Linnaeus	Killdear
	Scolopacidae 02		Scolopax 01	minor 01	(Gmelin)	American Woodcock
			Scolopax 01	rusticola 02	Linnaeus	European Woodcock
			Numenius 02	americanus 01	Bechstein	Long-billed Curlew
			Bartramia 03	longicauda 01	(Bechstein)	Upland Plover
			Actitis 04	macularia 01	(Linnaeus)	Spotted Sandpiper
			Limosa 05	fedoa 01	(Linnaeus)	Marbled Godwit
	Recurvirostridae 03		Recurvirostra 01	americana 01	Gmelin	American Avocet
	Phalaropodidae 04		Phalaropus 01	tricolor 01	(Vieillot)	Wilson's Phalarope
	Laridae 05		Larus 01	argentatus 01	Pontoppidan	Herring Gull
			Larus 01	californicus 02	Lawrence	California Gull
			Larus 01	delawarensis 03	Ord	Ring-billed Gull
			Larus 01	pipixcan 04	Wagler	Franklin's Gull
			Larus 01	philadelphia 05	(Ord)	Bonaparte's Gull
			Sterna 02	forsteri 01	Nuttall	Forester's Tern
			Sterna 02	hirundo 02	Linnaeus	Common Tern
			Chlidonias 03	niger 01	(Linnaeus)	Black Tern
Columbiformes 10	Columbidae 01		Columba 01	livia 01	Gmelin	**Rock Dove
			Zenaida 02	macroura 01	(Linnaeus)	Mourning Dove
			Ectopistes 03	migratorius 01	(Linnaeus)	Passenger Pigeon

Class 03: Avian continued

ORDER	FAMILY	SUB-FAMILY	GENUS	SPECIES	DISCOVERER	COMMON NAME
Cuculiformes 11	Cuculidae 01		Coccyzus 01	americanus 01	(Linnaeus)	Yellow-billed Cuckoo
			Coccyzus 01	erythropthalmus 02	(Wilson)	Black-billed Cuckoo
Strigiformes 12	Strigidae 01		Otus 01	asio 01	(Linnaeus)	Screech Owl
			Bubo 02	virginianus 01	(Gmelin)	Great Horned Owl
			Nyctea 03	scandiaca 01	(Linnaeus)	Snowy Owl
			Surnia 04	ulula 01	(Linnaeus)	Hawk Owl (N. Hawk Owl)
			Speotyto 05	cunicularia 01	(Molina)	Burrowing Owl
			Strix 06	varia 01	Barton	Barred Owl
			Strix 06	nebulosa 02	Forster	Great Gray Owl
			Asio 07	otus 01	(Linnaeus)	Long-eared Owl
			Asio 07	flammeus 02	(Pontoppidan)	Short-eared Owl
			Aegolius 08	funereus 01	(Linnaeus)	Boreal Owl
			Aegolius 08	acadicus 02	(Gmelin)	Saw-whet Owl
Caprimulgiformes 13	Caprimulgidae 01		Caprimulgus 01	vociferus 01	Wilson	Whip-poor-will
			Chordeiles 02	minor 01	(Forster)	Common Nighthawk
Apodiformes 14	Apodidae 01		Chaetura 01	pelagica 01	(Linnaeus)	Chimney Swift
	Trochilidae 02		Archilochus 01	colubris 01	(Linnaeus)	Ruby-Throated Hummingbird
Coraciiformes 15	Alcedinidae 01		Ceryle 01	alcyon 01	(Linnaeus)	Belted Kingfisher
Piciformes 16	Picidae		Colaptes 01	auratus 01	(Linnaeus)	Yellow-shafted Flicker
			Dryocopus 02	pileatus 01	(Linnaeus)	Pileated Woodpecker
			Melanerpes 03	erythrocephalus 01	(Linnaeus)	Red-headed Woodpecker
			Sphyrapicus 04	varius 01	(Linnaeus)	Yellow-billed Woodpecker
			Picoides 05	villosus 01	(Linnaeus)	Hairy Woodpecker
			Picoides 05	pubescens 02	(Linnaeus)	Down Woodpecker
			Picoides 05	arcticus 03	(Swainson)	Black-backed Woodpecker
			Picoides 05	tridactylus 04	(Linnaeus)	Three-toed Woodpecker

Class 03: Avian continued

ORDER	FAMILY	SUB-FAMILY	GENUS	SPECIES	DISCOVERER	COMMON NAME
Passeriformes 17	Tyrannidae 01		Tyrannus 01	tyrannus 01	(Linnaeus)	Eastern Kingbird
			Tyrannus 01	verticalis 02	Say	Western Kingbird
			Myiarchus 02	crinitus 01	(Linnaeus)	Great Crester Flycatcher
			Sayornis 03	phoebe 01	(Latham)	Eastern Phoebe
			Empidonax 04	traillii 01	(Audubon)	Willow Flycatcher
			Empidonax 04	minimus 02	(Baird & Baird)	Least Flycatcher
			Contopus 05	virens 01	(Linnaeus)	Eastern Wood Pewer
			Contopus 05	borealis 02	(Swainson)	Olive-sided Flycatcher
	Alaudidae 02		Eremophila 01	alpestris 01	(Linnaeus)	Horned Lark
	Hirundinidae 03		Iridoprocne 01	bicolor 01	(Vieillot)	Tree Swallow
			Riparia 02	riparia 01	(Linnaeus)	Bank Swallow
			Stelgidopteryx 03	serripennis 01	(Audubon)	Rough-Winged Swallow
			Hirundo 04	rustica 01	Linnaeus	Barn Swallow
			Hirundo 05	pyrrhonota 02	Vieillot	Cliff Swallow
			Progne 05	subis 01	(Linnaeus)	Purple Martin
	Corvidae 04		Perisoreus 01	canadensis 01	(Linnaeus)	Gray Jay
			Cyanocitta 02	cristata 01	(Linnaeus)	Blue Jay
			Pica 03	pica 01	(Linnaeus)	Black-billed Magpie
			Corvus 04	corax 01	Linnaeus	Common Raven
			Corvus 04	brachyrhynchos 02	Brehm	American Crow
	Paridae 05		Parus 01	atricapillus 01	Linnaeus	Black-capped Chickadee
			Parus 01	hudsonicus 02	Forster	Boreal Chickadee
	Sittidae 06		Sitta 01	carolinensis 01	Latham	White-breasted Nuthatch
			Sitta 01	canadensis 02	Linnaeus	Red-breasted Nuthatch

Class 03: Avian continued

ORDER	FAMILY	SUB-FAMILY	GENUS	SPECIES	DISCOVERER	COMMON NAME
Passeriformes 17	Certhiidae 07		Certhiia 01	americana 01	Linnaeus	Brown Creeper
	Troglodytidae 08		Troglodytes 01	aedon 01	Vieillot	House Wren
			Troglodytes 01	troglodytes 02	(Linnaeus)	Winter Wren
			Cistothurus 02	palustris 01	(Wilson)	Marsh Wren
			Cistothorus 02	platensis 02	(Latham)	Sedge Wren
	Mimidae 09		Mimus 01	polyglottos 01	(Linnaeus)	Northern Mockingbird
			Dumetella 02	carolinensis 01	(Linnaeus)	Catbird
			Toxostoma 03	rufum 01	(Linnaeus)	Brown Thrasher
	Turdidae 10		Turdus 01	migratorius 01	Linnaeus	American Robin
			Catharus 02	guttata 01	(Pallas)	Hermit Thrush
			Catharus 02	ustulata 02	(Nuttall)	Swainson's Thrush
			Catharus 02	fuscescens 03	(Stephens)	Veery
			Sialia 03	sialis 01	(Linnaeus)	Eastern Bluebird
			Sialia 03	currucoides 02	(Bechstein)	Mountain Bluebird
	Sylviidae 11		Regulus 01	satrapa 01	Lichtenstein	Golden-Crowned Kinglet
			Regulus 01	calendula 02	(Linnaeus)	Ruby-Crowned Kinglet
	Motacillidae 12		Anthus 01	spragueii 01	(Audubon)	Sprague's Pipit
	Bombycillidae 13		Bombycilla 01	cedrorum 01	Vieillot	Cedar Waxwing
	Laniidae 14		Lanius 01	ludovicianus 01	Linnaeus	Loggerhead Shrike

Class 03: Avian continued

ORDER	FAMILY	SUB-FAMILY	GENUS	SPECIES	DISCOVERER	COMMON NAME
Passeriformes 17	Sturnidae 15		Sturnus ol	vulgaris 01	Linnaeus	**Comon Starling
	Vireonidae 16		Vireo 01	flavifrons 01	Vieillot	Yellow-throated Vineo
			Vireo 01	solitarius 02	(Wilson)	Solitary Vireo
			Vireo 01	olivaceus 03	(Linnaeus)	Red-eyed Vireo
			Vireo 01	philadelphicus 04	(Cassin)	Philadelphia Vireo
			Vireo 01	gilvus 05	(Vieillot)	Warbling Vireo
	Parulidae 17		Mniotilta 01	varia 01	(Linnaeus)	Black & White Warbler
			Vermivora 02	chrysoptera 01	(Linnaeus)	Golden-winger Warbler
			Vermivora 02	peregrina 02	(Wilson)	Tennessee Warbler
			Vermivora 02	celata 03	(Say)	Orange-crowned Warbler
			Vermivora 02	ruticapilla 04	(Wilson)	Nashville Warbler
			Parula 03	americana 01	(Linnaeus)	Pauila Warbler
			Dendrocia 04	petechia 01	(Linnaeus)	Yellow Warbler
			Dendroica 04	magnolia 02	(Wilson)	Magnolia Warbler
			Dendroica 04	tigrina 03	(Gmelin)	Cape May Warbler
			Dendroica 04	coronata 04	(Linnaeus)	Yellow Rumped Warbler
			Dendroica 04	virens 05	(Gmelin)	Blk-throated Grn. Warbler
			Dendroica 04	fusca 06	(Müller)	Blackburnian Warbler
			Dendroica 04	pensylvanica 07	(Linnaeus)	Chestnut-sided Warbler
			Dendroica 04	castanea 08	(Wilson)	Bay-Breasted Warbler
			Dendroica 04	palmarum 09	(Gmelin)	Palm Warbler
			Seiurus 05	aurocapillus 01	(Linnaeus)	Ovenbird
			Seiurus 05	novaboracensis 02	(Gmelin)	Northern Waterthrush
			Oporonis 06	agilis 01	(Wilson)	Connecticut Warbler
			Oporonis 06	philadelphia 02	(Wilson)	Mourning Warbler
			Geothlypis 07	trichas 01	(Linnaeus)	Common Yellowthroat
			Wilsonia 08	pusilla 01	(Wilson)	Wilson's Warbler
			Wilsonis 08	canadensis 02	(Linnaeus)	Canada Warbler
			Setophagia 09	ruticilla 01	(Linnaeus)	American Redstart
	Icteridae 18		Dolichonyx 01	oryzivorous 01	(Linnaeus)	Bobolink
			Sturnella 02	neglecta 01	Audubon	Western Meadowlark
			Xanthocephalus 03	xanthocephalus 01	(Bonaparte)	Yellow-headed Blackbird

Class 03: Avian continued

ORDER	FAMILY	SUB-FAMILY	GENUS	SPECIES	DISCOVERER	COMMON NAME
Passeriformes 17	Icteridae 18		Agelaius 04	phseniceus 01	(Linnaeus)	Red-winged Blackbird
			Icterus 05	galbula 01	(Linnaeus)	Northern Oriole
			Euphagus 06	carolinus 01	(Müller)	Rusty Blackbird
			Euphagus 06	cyanocephalus 02	(Wagler)	Brewer's Blackbird
			Quiscalus 07	quiscula 01	(Linnaeus)	Common Grackle
			Molothrus 08	ater 01	(Boddaert)	Brown-headed Cowbrid
	Frigillidae 19		Cardinalis 01	cardinalis 01	(Linneaus)	Cardinal
			Pheucticus 02	ludovicianus 01	(Linneaus)	Rose-breasted Grosbeak
			Passerina 03	cyanea 01	(Linneaus)	Indigo Bunting
			Spiza 04	americana 01	(Gmelin)	Dickcissel
			Coccothraustes 05	vespertinus 01	(Cooper)	Evening Grosbeak
			Carpodacus 06	purpureus 01	(Gmelin)	Pruple Finch
			Spinus 07	pinus 01	(Wilson)	Pine Siskin
			Spinus 07	tristis 02	(Linnaeus)	American Goldfinsh
			Loxia 08	curvirostra 01	(Linnaeus)	Red Crossbill
			Pipilo 09	erythrophthalmus 01	(Linnaeus)	Rufous-sided Towhee
			Passerculus 10	sandwichensis 01	(Gmelin)	Savannah Sparrow
			Ammodramus 11	savannarum	(Gmelin)	Grasshapper Sparrow
			Ammodramus 11	bairdii 02	(Audubon)	Baird's Sparrow
			Passerherbulus 12	caudacutus 01	(Latham)	Le Conte's Sparrow
			Ammodramus 13	caudacutus 01	(Gmelin)	Sharp-tailed Sparrow
			Pooecetes 14	gramineus 01	(Gmelin)	Vesper Sparrow
			Chondestes 15	grammacus 01	(Say)	Lark Sparrow
			Junco 16	hyemalis 01	(Linnaeus)	Slate-Colored Junco
			Spizella 17	passerina 01	(Bechstein)	Chippling Sparrow
			Spizella 17	pallida 02	(Swainson)	Clay-colored Sparrow
			Spizella 17	pusilla 03	(Wilson)	Field Sparrow
			Zonotrichia 18	albicollis 01	(Gmelin)	White-throated Sparrow
			Melospiza 19	lincolnii 01	(Audubon)	Lincoln's Sparrow
			Melospiza 19	georgiano 01	(Latham)	Swamp Sparrow
			Melospiza 19	Melodia 01	(Wilson)	Song Sparrow

TAXON CODES - OSTEICHTHYES (CLASS 04)

ORDER	FAMILY	GENUS	SPECIES	DISCOVERER	COMMON NAME
Petromyzontiformes 01	Petromyzontidae 01	Ichthyomyzon 01	castaneus 01	Girard	Chestnut Lamprey
			unicuspis 02	Hubbs & Trautman	Silver Lamprey
Acipenseriformes 02 (Chondrostei)	Acipenseridae 01	Acipenser 01	fulvescens 01	Rafinseque	Lake Sturgeon
Clupeiformes 03	Salmonidae 01	Salmo 01	gairdneri 01	Richardson	Rainbow Trout
		Salvelinus 02	namaycush 01	(Walbaum)	Lake Trout
		Coregonus 03	artedii 01	Leseur	Cisco, Lake Herring
			nigripinnis 02	(Gill)	Blackfin Cisco
			zenithicus 03	(Jordan & Evermann)	Shortjaw Cisco
			clupeaformis 04	(Mitchell)	Lake Whitefish
	Hiodontidae 02	Hiodon 01	alosoides 01	(Rafinesque)	Goldeye
			tergisus 02	Lesueur	Mooneye
	Umbridae 03	Umbra 01	limi 01	(Kirtland)	Central Mudminnow
	Esocidae 04	Esox 01	lucius 01	(Linnaeus)	Northern Pike
Cypriniformes 04	Cyprinidae 01	Couesius 01	plumbeus 01	(Agassiz)	Lake Chub
		**Cyprinus 02	carpio 01	Linneaus	Carp
		Hybopsis 03	storeriana 01	(Kirtland)	Silver Chub
		Nocomis 04	biguttatus 01	(Kirtland)	Hornyhead Chub
		Notemigonus 05	crysoleucas 01	(Mitchell)	Golden Shiner
		Notropis 06	antherinoides 01	Rafinesque	Emerald Shiner
			blennius 02	(Girard)	River Shiner
			cornutus 03	(Mitchill)	Common Shiner
			heterolepis 04	Eigenmann & Eigenmann	Blacknose Shiner
			hudsonius 05	(Clinton)	Spottail Shiner
			rubellus 06	(Agassiz)	Rosyface Shiner

TAXON CODES = OSTEICHTHYES (CLASS 04) CONTINUED

ORDER	FAMILY	GENUS	SPECIES	DISCOVERER	COMMON NAME
Cypriniformes 04	Cyprinidae 01	Notropis 06	stramineus 07	(Cope)	Sand Shiner
			volucellus 08	(Cope)	Mimic Shiner
		Pimephales 07	notatus 01	(Rafinesque)	Bluntnose Minnow
			promelas 02	(Rafinesque)	Fathead Minnow
		Platygobio 08	gracilis 01	(Richardson)	Flathead Chub (Rare)
		Rhinichthys 09	atratulus 01	(Hermann)	Blacknose Dace
			cataractae 02	(Valenciennes)	Longnose Dace
		Semotilus 10	atromaculatus 01	(Mitchill)	Creek Chub
			margarita 02	(Cope)	Pearl Dace
	Catostomidae 02	Carpiodes 01	cyprinus 01	(Lesueur)	Quillback
		Catostomus 02	catostomus 01	(Forster)	Longnose Sucker
			commersoni 02	(Lacépède)	White Sucker
		Ictiobus 03	cyprinellus 01	(Valenciennes)	Bigmouth Buffalo (rare)
		Moxostoma 04	anisurum 01	(Rafinesque)	Silver Redhorse
			macrolepidotum 02	(Lesueur)	Shorthead Redhorse
	Ictaluridae 03	Ictalurus 01	melas 01	(Rafinesque)	Black Bullhead
			nebulosus 02	(Lesueur)	Brown Bullhead
			punctatus 03	(Rafinesque)	Channel Catfish
		Noturus 02	flavus 01	(Rafinesque)	Stonecat
			gyrinus 02	(Mitchell)	Tadpole Madtom
Cyprinodontiformes 05	Cyprinodontidae 01	Fundulus 01	diaphanus 01	(Lesueur)	Banded Killifish
Gadiformes 06	Gadidae 01	Lota 01	lota 10	(Linnaeus)	Burbot
Gasterosteiformes 07	Gasterosteidae 01	Culaea 01	inconstans 01	(Kirtland)	Brook Stickleback
		Pungitius 02	pungitius 01	(Linnaeus)	Ninespine Stickleback

TAXON CODES = OSTEICHTHYES (LCASS 04) CONTINUED

ORDER	FAMILY	GENUS	SPECIES	DISCOVERER	COMMON NAME
Percopsiformes 08	Percopsidae 01	Percopsis 01	omiscomaycus 01	(Walbaum)	Trout-perch
Perciformes 09	Percichthyidae 01	Morone 01	chrysops 01	(Rafinesque)	White Bass (First reported in 1963)
	Centrarchidae 01	Ambloplites 01	rupestris 01	(Rafinesque)	Rock Bass
		Lepomis 02	gibbosus 01	(Linnaeus)	Pumpkinseed
			macrochirus	Raphinesque	Bluegill (In Red River-USA)
		Micropterus 03	dolomieui	Lacepede	Smallmouth bass
			salmoides	(Lacepede)	Largemouth bass
		Pomoxis 04	nigromaculatus 01	(Lesueur)	Black Crappie
	Percidae 02	Perca 01	flavescens 01	(Mitchell)	Yellow Perch
		Stizostedion 02	canadense 01	(Smith)	Sauger
			vitreum 02	(Mitchill)	Walleye
		Etheostoma 03	exile 01	(Girard)	Iowa Darter
			nigrum 02	Rafinesque	Johnny Darter
		Percina 04	caprodes 01	(Rafinesque)	Logperch
			maculata 02	(Girard)	Blackside Darter
			shumardi 03	(Girard)	River Darter
	Sciaenidae 03	Aplodinotus 01	grunniens 01	Rafinesque	Freshwater Drum
	Cottidae 04	Cottus 01	bairdi 01	Girard	Mottled Sculpin
			cognatus 02	Ricahrdson	Slimy Sculpin
			ricei 03	(Nelson)	Spoonhead Sculpin
		Myoxocephalus 02	quadricornis 01	(Linnaeus)	Deepwater Sculpin

Appendix C

ANATOMICAL ELEMENTS COMPUTER CODING SYSTEM

FIELD		BODY PART
10000		ZONE HEAD
10001		TEMPORAL CONDYLE
10002		TONGUE BONE

11000	CRA	CRANIAL INDET OR CRANIUM COMPLETE
11001	BCS	BRAINCASE
11002	PMX	PREMAXILLA
11003	PMXT	PREMAXILLA WITH TEETH
11004	MAX	MAXILLA
11005	MAXT	MAXILLA WITH TEETH
11006	PAL	PALATINE
11007	VOM	VOMER
11008	NAS	NASAL
11009	SPH	SPHENOID
11010	ETH	ETHMOID
11011	LAC	LACRIMAL
11012	FRN	FRONTAL
11013	HCO	HORNCORE
11014	HSH	HORN SHEATH
11015	JUG	JUGAL = MALAR
11016	ZYG	ZYGOMATIC ARCH
11017	ORB	ORBITAL REGION
11018	TEM	TEMPORAL
11019	SQA	SQUAMOSAL
11020	PAR	PARIETAL
11021	OCC	OCCIPITAL
11022	BOC	BASIOCCIPITAL
11023	PCM	OCCIPITAL CONDYLE
11024	MAS	MASTOID PROCESS OR REGION
11025	PET	PETROSAL
11026	BUL	BULLA=PETROUS TYMPANIC OR AUDITORY BULLA
11027	PAS	PARASHENOID
11028	ALS	ALISHENOID
11029	DET	DERMETHMOID

(Source: Gifford and Crader, 1977: 225-238)

11030	LET	LATERAL ETHMOID
11031	PRT	PARETHMOID
11032	PFR	PREFRONTAL
11033	SPO	SPHENOTIC
11034	PRO	PROOTIC
11035	PTO	PTEROTIC
11036	EPO	EPIOTIC
11037	SOC	SUPRAOCCIPITAL
11038	XOC	EXOCCIPITAL
11039	COB	CIRCUMORBITAL
11040	HYQ	UNIT HYM SYP MPT QUA
11041	HYM	HYOMANDIBULAR
11042	SYP	SYMPLECTIC
11043	MPT	METAPTERYGOID
11044	QUA	QUADRATE
11045	PTG	PTERYGOID
11046	EPT	ENTOPTERYGOID
11047	SMX	SUPRAMAXILLA
11048	OPS	UNIT OPR POP IOP SOP
11049	OPR	OPERCULUM
11050	POP	PREOPERCULUM
11051	IOP	INTERIPERCULUM
11052	SUP	SUBOPERCULUM
11053	HYA	UNIT BHY CHY EHY
11054	BHY	BASIHYAL
11055	CHY	CERATOHYAL
11056	EHY	EPIHYAL
11057	UHY	UROHYAL
11058	BRN	BRANCHIOSTEGAL
11059	QJU	QUADRATOJUGAL
11060	LAC	LACRIMAL
11061	SOR	SUPRAORBITAL
11062	OTO	OTOLITH
11063	PST	POST TEMPORAL
11064	PSF	UNIT PARIETAL SPHENOTIC FRONTAL
11065	OTP	UNIT OCCIPITAL L. & R. PARIETAL
11066	PET	PETROUS PORTION OF THE TEMPORAL BONE
11067	MTP	MASTOID PROCESS, BULLAE AND ZYGOMA
11068	SOP	SUPRAOCCIPITAL AND R. PARIETAL
11069	PTP	UNIT PTEROTIC AND PERIETAL
11070	CTE	UNIT CERATIHYAL AND EPIHYAL

12000	MAN	MANDIBLE INDET OR COMPLETE
12001	MANT	MANDIBLE WITH TEETH
12002	SYM	SYMPHSIS
12003	SYMT	SYMPHYSIS WITH TEETH
12004	DEN	DENTARY OR CORPUS
12005	DENT	DENTARY WITH TEETH
12006	ANG	ANGLE OR ANGULAR
12007	SAN	SURANGULAR
12008	RAM	RAMUS
12009	CRN	CORONOID PROCESS
12010	ART	ARTICULAR CONDYLE OR ARTICULAR
12011	PRT	PREARTICULAR
12012	ALV	ALVEOLUS UPPER OR LOWER INDET

13000	TTH	TOOTH INDET
13001	ROT	ROOT INDET
13010	I	INCISOR INDET UPPER OR LOWER INDET
13011	DI	DECIDUOUS INCISOR INDET UPPER OR LOWER INDET
13020	C	CANINE UPPER OR LOWER INDET
13021	DC	DECIDUOUS CANINE UPPER OR LOWER INDET
13030	P	PREMOLAR INDET UPPER OR LOWER INDET
13040	DP	DECIDUOUS PREMOLAR INDET UPPER OR LOWER INDET
13043	DPM	DECIDUOUS THIRD PREMOLAR UPPER OR LOWER INDET

13050	M	MOLAR INDET UPPER OR LOWER INDET
13051	MI	FIRST MOLAR UPPER OR LOWER INDET
13053	MT	THIRD MOLAR UPPER OR LOWER INDET
13060	CTH	CHEEKTOOTH INDET UPPER ORLOWER INDET
13070	THR	TOOTHROW UPPER OR LOWER INDET
13071	DTHR	DECIDUOUS TOOTHROW UPPER OR LOWER INDET
13110	UIO	UPPER INCISOR INDET
13111	UII	UPPER INCISOR 1
13112	UI2	UPPER INCISOR 2
13113	UI3	UPPER INCISOR 3
13114	UI4	UPPER INCISOR 4
13115	DUIO	DECIDUOUS UPPER INCISOR INDET
13116	DUI1	DECIDUOUS UPPER INCISOR 1
13117	DUI2	DECIDUOUS UPPER INCISOR 2
13118	DUI3	DECIDUOUS UPPER INCISOR 3
13119	DUI4	DECIDUOUS UPPER INCISOR 4
13120	UC	UPPER CANINE
13121	DUC	DECIDUOUS UPPER CANINE
13130	UPO	UPPER PREMOLAR INDET
13131	UP1	UPPER PREMOLAR 1
13132	UP2	UPPER PREMOLAR 2
13133	UP3	UPPER PREMOLAR 3
13134	UP4	UPPER PREMOLAR 4
13135	UP34	UPPER PREMOLAR 3 OR 4
13140	DUPO	DECIDUOUS UPPER PREMOLAR INDET
13141	DUP1	DECIDUOUS UPPER PREMOLAR 1
13142	DUP2	DECIDUOUS UPPER PREMOLAR 2
13143	DUP3	DECIDUOUS UPPER PREMOLAR 3
13144	DUP4	DECIDUOUS UPPER PREMOLAR 4

13150	UMO	UPPER MOLAR INDET
13151	UM1	UPPER MOLAR 1
13152	UM2	UPPER MOLAR 2
13153	UM3	UPPER MOLAR 3
13154	UM12	UPPER MOLAR 1 OR 2
13155	UM23	UPPER MOLAR 2 OR 3
13160	UCH	UPPER CHEEKTOOTH INDET
13170	UTHR	UPPER TOOTHROW
13171	DUTR	DECIDUOUS UPPER TOOTHROW
13210	LIO	LOWER INCISOR INDET
13211	LI1	LOWER INCISOR 1
13212	LI2	LOWER INCISOR 2
13213	LI3	LOWER INCISOR 3
13214	LI4	LOWER INCISOR 4
13215	DLIO	DECIDUOUS LOWER INCISOR INDET
13216	DLI1	DECIDUOUS LOWER INCISOR 1
13217	DLI2	DECIDUOUS LOWER INCISOR 2
13218	DLI3	DECIDUOUS LOWER INDISOR 3
13219	DLI4	DECIDUOUS LOWER INCISOR 4
12220	LC	LOWER CANINE
13221	DLC	DECIDUOUS LOWER CANINE
13230	LPO	LOWER PREMOLAR INDET
13231	LP1	LOWER PREMOLAR 1
13232	LP2	LOWER PREMOLAR 2
13233	LP3	LOWER PREMOLAR 3
13234	LP4	LOWER PREMOLAR 4
13235	LP34	LOWER PREMOLAR 3 OR 4
13240	DLPO	DECIDUOUS LOWER PREMOLAR INDET
13241	DLP1	DECIDUOUS LOWER PREMOLAR 1
13242	DLP2	DECIDUOUS LOWER PREMOLAR 2
13243	DLP3	DECIDUOUS LOWER PREMOLAR 3
13244	DLP4	DECIDUOUS LOWER PREMOLAR 4

13250	LMO	LOWER MOLAR INDET
13251	LM1	LOWER MOLAR 1
13252	LM2	LOWER MOLAR 2
13253	LM3	LOWER MOLAR 3
13254	LM12	LOWER MOLAR 1 OR 2
13255	LM23	LOWER MOLAR 2 OR 3
13260	LCH	LOWER CHEEKTOOTH INDET
13270	LTHR	LOWER TOOTHROW
13271	DLTR	DECIDUOUS LOWER TOOTHROW
14000	HYO	HYOID
20000	AXL	AXIAL INDET
21000	VRT	VERTEBRA INDET
21001	VRTR	VERTEBRAL ROW ARTICULATER INDET OR MIXED
21002	CEN	CENTRUM INDET
21003	CENE	CENTRUM EPIPHYSIS INDET
21100	CER	CERVICAL VERTEBRA INDET
21101	ATL	ATLAS CERVICAL VERTEBRA 1
21102	AXI	AXIS CERVICAL VERTEBRA 2
21103	CER3	CERVICAL VERTEBRA 3
21104	CER4	CERVICAL VERTEBRA 4
21105	CER5	CERVICAL VERTEBRA 5
21106	CER6	CERVICAL VERTEBRA 6
21107	CER7	CERVICAL VERTEBRA 7
21108	CERR	CERRVICAL ROW ARTICULATED
21109	CERC	CERVICAL CENTRUM
21110	CERE	CERVICAL CENTRUM EPIPHYSIS

21200	THORACIC VERTEBRA INDET	
21201	THO1	THORACIC VERTEBRA 1
21202	THO2	THORACIC VERTEBRA 2
21203	THO3	THORACIC VERTEBRA 3
21204	THO4	THORACIC VERTEBRA 4
21205	THO5	THORACIC VERTEBRA 5
21206	THO6	THORACIC VERTEBRA 6
21207	THO7	THORACIC VERTEBRA 7
21208	THO8	THORACIC VERTEBRA 8
21209	THO9	THORACIC VERTEBRA 9
21210	THO10	THORACIC VERTEBRA 10
21211	THO11	THORACIC VERTEBRA 11
21212	THO12	THORACIC VERTEBRA 12
21213	THO13	THORACIC VERTEBRA 13
21214	THO14	THORACIC VERTEBRA 14
21215	THO15	THORACIC VERTEBRA 15
21216	THO16	THORACIC VERTEBRA 16
21217	THO17	THORACIC VERTEBRA 17
21218	THO18	THORACIC VERTEBRA 18
21219	THOL	LAST THORACIC VERTEBRA
21220	THOR	THORACIC ROW ARTICULATED
21221	THOC	THORACIC CENTRUM
21222	THEC	THORACIC CENTRUM EPIPHYSIS
21223	TVS	THORACIC VERTEBRAL SPINE
21224	TTP	THORACIC TRANSVERSE PROCESS
21225	TRK	TRUNK VERTEBRA
21226		

21300	LUM	LUMBAR VERTEBRA INDET
21301	LUM1	LUMBAR VERTEBRA 1
21302	LUM2	LUMBAR VERTEBRA 2
21303	LUM3	LUMBAR VERTEBRA 3
21304	LUM4	LUMBAR VERTEBRA 4
21305	LUM5	LUMBAR VERTEBRA 5
21306	LUM6	LUMBAR VERTEBRA 6
21307	LUM7	LUMBAR VERTEBRA 7
21308	LUML	LAST LUMBAR VERTEBRA
21309	LUMR	LUMBAR ROW ARTICULATED
21310	LUMC	LUMBAR CENTRUM
21311	LUME	LUMBAR CENTRUM EPIPHYSIS
21312	LTP	LUMBAR TRANSVERSE PROCESS
21313	LUMA	LUMBAR VERTEBRA ANTERIOR
21314	LUMP	LUMBAR VERTEBRA POSTERIOR
21315		

21400	SAC	SACRUM COMPLETE OR SACRAL VERTEBRA INDET
21401	SAC1	SACRAL VERTEBRA 1
21402	SAC2	SACRAL VERTEBRA 2
21403	SAC3	SACRAL VERTEBRA 3
21404	SAC4	SACRAL VERTEBRA 4
21405	SAC5	SACRAL VERTEBRA 5
21406	SACL	LAST SACRAL VERTEBRA
21407	SACC	SACRAL CENTRUM
21408	SACE	SACRAL CENTRUM EPIPHYSIS
21409	SACR	SACRAL VERTEBRA 4 AND 5

21500	CAU	CAUDAL VERTEBRA
21501	CAUR	CAUDAL ROW ARTICULATED
21502	CAUE	CAUDAL VERTEBRA EPIPHYSIS
21503	WEB	WEBERIAN APPARATUS
21504	CAS	CAUDAL VERTEBRA AND ONE SPINE
21505	VEF	VERTEBRAL FACET
21506	CAUC	CAUDAL VERTEBRAL CENTRUM
21507	SPI	SPINE INDET
21508	VER	RIB FACET ON A VERTEBRA
21509	CVN	CAUDAL VERTEBRA WITH EXPANDED NEURAL SPINE

22000	RIB	RIB INDET
22001	RIE	RIB EPIPHYSIS

22100	RIBA	ANTERTIOR RIB
22101	RIB1	FIRST RIB

22200	RIBP	POSTERIOR RIB
22201	STR	STERNAL RIB
22202	VTR	VERTEBRAL RIB

22300	COS	COSTAL CARTILEGE

23000	STE	STERNUM OR STERNABRAE

24000	MNB	MANUBRIUM
25000	FUR	FURCULUM
26000	BAC	BACULUM
30000	GIR	GIRDLE BONE INDET
31000	PEC	PECTORAL GIRDLE BONE INDET
31010	SCP	SCAPULA INDET OR COMPLETE
31011	SCPG	GLENOID OF SCAPULA
31012	SCPA	ACROMION OF SCAPULA
31013	SCPS	SPINE OF SCAPULA
31014	SCPB	BLADE OF SCAPULA
31020	CLV	CLAVICLE
31030	COR	CORACOID
31040	ICL	INTERCLAVICAL
31050	ACR	ACROMION BONE
31060	CLE	CLEITHRUM
31070	SCL	SUPRACLEITHRUM
31080	PCL	POSTCLEITHRUM
31090	ACO	ANTERIOR CORACOID
32000	PEL	PELVIS INDET OR COMPLETE
32010	ILI	ILIUM
32020	ISC	ISCHIUM
32030	PUB	PUBIS
32040	ILIS	ILIUM PLUS ISCHIUM
32050	ILPB	ILIUM PLUS PUBIS
32060	ISBP	ISCHIUM PLUS PUBIS

32070	ACE	ACETABULUM
32071	AILI	ACETABULUM ILIUM ONLY
32072	AISC	ACETABULUM ISCHIUM ONLY
32073	APUB	ACETABULUM PUBIS ONLY
32074	AISI	ACETABULUM ISCHIUM AND ILIUM ONLY
32075	APIL	ACETABULUM PUBIS AND ILIUM ONLY
32076	APIS	ACETABULUM PUBIS AND ISCHIUM ONLY
32077	APII	ACETABULUM PUBIS ILIUM AND ISCHIUM
32078	IC	ILIAC CREST
32080	PPUB	PREPUBIS
40000	LBN	LONGBONE INDET
41000	FLB	FORELIMB INDET OR ARTICULATED UNIT
41100	HUM	HUMERUS
41200	RAD	RADIUS
41300	ULN	ULNA
41301	ULC	ULNA OLECRANON WITH SIGMOID NOTCH
41302	ULS	ULNA SIGMOID NOTCH ONLY
41402	RUL	RADIO ULNA
40500	MET	METAPODIAL INDET
41500	MCO	METACARPAL DIGIT INDET
41601	MC1	METACARPAL FIRST DIGIT
41502	MC2	METACARPAL SECOND DIGIT
41503	MC3	METACARPAL THIRD DIGIT
41504	MC4	METACARPAL FOURTH DIGIT
41505	MC5	METACARPAL FIFTH DIGIT
41506	MCM	MAIN METACARPAL
41507	MCA	ACCESSORY METACARPAL
41508	CMC	CARPOMETACARPUS
42000	HLB	HINDLIMB INDET OR ARTICULATED UNIT
42100	FEM	FEMUR
42101	FEE	FEMUR EPIPHYSIS
42200	TIB	TIBIA
42201	TIE	TIBIA EPIPHYSIS

42300	FIB	FIBULA OR LATERAL MALLEOLUS
42400	TBT	TIBIOTARSUS
42500	MTO	METATARSAL DIGIT INDET
42501	MT1	METATARSAL FIRST DIGIT
42502	MT2	METATARSAL SECOND DIGIT
42503	MT3	METATARSAL THIRD DIGIT
42504	MT4	METATARSAL FOURTH DIGIT
42505	MT5	METATARSAL FIFTH DIGIT
42506	MTM	MAIN METATARSAL CANNON BONE
42507	MTA	ACCESSORY METATARSAL
42508	TMT	TARSOMETATARSUS
42600	PAT	PATELLA
50000	POD	PODIAL INDET
51000	CAR	CARPAL OR MANUS BONE INDET
51001	SCA	SCAPHOID
51002	LUN	LUNATE
51003	CUN	CUNEIFORM
51004	MAG	MAGNUM
51005		
51006	PIS	PISIFORM
51007	TZD	TRAPEZOID
51008	TZM	TRAPEZIUM
51009	SCL	SCAPHOLUNAR
51010	RDL	RADIALE
51011	INTC	INTERMEIUM CARPAL
51012	ULR	ULNARE
51013	CNC1	CENTRALE CARPAL 1
51014	CNC2	CENTRALE CARPAL 2
51015	DC1	DISTAL CARPAL 1
51016	DC2	DISTAL CARPAL 2
51017	DC3	DISTAL CARPAL 3
51018	DC4	DISTAL CARPAL 4
51019	NAVI	NAVICULAR OF THE CARPUS
51020	TRI	TRIQUETAL
51021	CAP	CAPITATE
51022	HAM	HAMATE
51023	GMLT	GREATER MULTANGLE
51024	LMLT	LESSER MULTANGLE

50100	PHA	PHALANX INDET
50110	PHA1	FIRST PHALANX DIGIT INDET FRONT OR HIND INDET
50111	PH11	FIRST PHALANX FIRST DIGIT FRONT OR HIND INDET
50112	PH12	FIRST PHALANX SECOND DIGIT FRONT OR HIND INDET
50113	PH13	FIRST PHALANX THIRD DIGIT FRONT OR HIND INDET
50114	PH14	FIRST PHALANX FOURTH DIGIT FRONT OR HIND INDET
50115	PH15	FIRST PHALANX FIRTH FRONT OR HIND INDET
50120	PHA2	SECOND PHALANX DIGIT INDET
50121	PH21	SECOND PHALANX FIRST DIGIT FRONT OR HIND INDET
50122	PH22	SECOND PHALANX SECOND DIGIT FRONT OR HIND INDET
50123	PH23	SECOND PHALANX THIRD DIGIT FRONT OR HIND INDET
50124	PH24	SECOND PHALANX FOURTH DIGIT FRONT OR HIND INDET
50125	PH25	SECOND PHALANX FIFTH DIGIT FRONT OR HIND INDET
50130	PHA3	THIRD PHALANX DIGIT INDET
50132	PH32	THIRD PHALANX SECOND DIGIT FRONT OR HIND INDET
50133	PH33	THIRD PHALANX THIRD DIGIT FRONT OR HIND INDET
50134	PH34	THIRD PHALANX FOURTH DIGIT FRONT OR HIND INDET
50135	PH35	THIRD PHALANX FIFTH DIGIT FRONT OR HIND INDET
50136		
50140	PHA4	FOURTH PHALANX DIGIT INDET FRONT OR HIND INDET
50143	PHA3	FOURTH PHALANX THIRD DIGIT FRONT OR HIND INDET
50144	PHA4	FOURTH PHALANX FOURTH DIGIT FRONT OR HIND INDET
50154	PHA5	FIFTH PHALANX FOURTH DIGIT FRONT OR HIND INDET
51110	FP10	FRONT FIRST PHALANX DIGIT INDET
51111	FP11	FRONT FIRST PHALANX FIRST DIGIT
51112	FP12	FRONT FIRST PHALANX SECOND DIGIT
51113	FP13	FRONT FIRST PHALANX THIRD DIGIT
51114	FP14	FRONT FIRST PHALANX FOURTH DIGIT
51115	FP15	FRONT FIRST PHALANX FIFTH DIGIT
51120	FP20	FRONT SECOND PHALANX DIGIT INDET
51121	FP21	FRONT SECOND PHALANX FIRST DIGIT
51122	FP22	FRONT SECOND PHALANX SECOND DIGIT
51123	FP23	FRONT SECOND PHALANX THIRD DIGIT
51124	FP24	FRONT SECOND PHALANX FOURTH DIGIT
51125	FP25	FRONT SECOND PHALANX FIFTH DIGIT

51130	FP30	FRONT THIRD PHALANX DIGIT INDET
51132	FP32	FRONT THIRD PHALANX SECOND DIGIT
51133	FP33	FRONT THRID PHALANX THIRD DIGIT
51134	FP34	FRONT THIRD PHALANX FOURTH DIGIT
51135	FP35	FRONT THIRD PHALANX FIFTH DIGIT
51140	FP40	FRONT FOURTH PHALANX DIGIT INDET
51143	FP43	FRONT FOURTH PHALANX THIRD DIGIT
51144	FP44	FRONT FOURTH PHALANX FOURTH DIGIT
51154	FP54	FRONT FIFTH PHALANX FOURTH DIGIT
52110	HP10	HIND FIRST PHALANX DIGIT INDET
52111	HP11	HIND FIRST PHALANX FIRST DIGIT
52112	HP12	HIND FIRST PHALANX SECOND DIGIT
52113	HP13	HIND FIRST PHALANX THIRD DIGIT
52114	HP14	HIND FIRST PHALANX FOURTH DIGIT
52115	HP15	HIND FIRST PHALANX FIFTH DIGIT
52120	HP20	SECOND PHALANX DIGIT INDET
52121	HP21	SECOND PHALANX FIRST DIGIT
52122	HP22	SECOND PHALANX SECOND DIGIT
52123	HP23	SECOND PHALANX THRID DIGIT
52124	HP24	SECOND PHALANX FOURTH DIGIT
52125	HP25	SECOND PHALANX FIFTH DIGIT
52130	HP30	HIND THIRD PHALANX DIGIT INDET
52132	HP32	HIND THIRD PHALANX SECOND DIGIT
52133	HP33	HIND THIRD PHALANX THIRD DIGIT
52134	HP34	HIND THIRD PHALANX FOURTH DIGIT
52135	HP35	HIND THIRD PHALANX FIFTH DIGIT
52140	HP40	HIND FOURTH PHALANX DIGIT INDET
52143	HP43	HIND FOURTH PHALANX THIRD DIGIT
52144	HP44	HIND FOURTH PHALANX FOURTH DIGIT
52145	HP45	HIND FOURTH PHALANX FIFTH DIGIT
52150	HP50	HIND FIFTH PHALANX DIGIT INDET
52151	HP51	HIND FIFTH PHALANX FIRST DIGIT
52152	HP52	HIND FIFTH PHALANX SECOND DIGIT
52153	HP53	HIND FIFTH PHALANX THIRD DIGIT
52154	HP54	HIND FIFTH PHALANX FOURTH DIGIT
52155	PEP	PROXIMAL EPIPHYSIS OF PHALANX INDET

52000	TAR	TARSAL OR PES BONE INDET
52001	AST	ASTRAGALUS
52001	CAL	CALCANEUM
52003	NAV	NAVICULAR OF THE TARSUS
52004	CUB	CUBOID
52005	NVC	NAVICULOCUBOID (TARSAL CENTRALE AND FOURTH FUSED)
52006	CU1	MEDIAL CUNEIFORM
52007	CU2	INTERMEDIATE CUNEIFORM
52008	CU3	LATERAL CUNEIFORM
52009	TBL	TIBIALE
52010	INTT	INTERMEDIUM TARSAL
52011	FBR	FIBULARE
52012	CNT	CENTRALE TARSAL
52013	DT1	DISTAL TARSAL 1
52014	DT2	DISTAL TARSAL 2
52015	DT3	DISTAL TARSAL 3
52016	DT4	DISTAL TARSAL 4
52017	TAL	TALUS OF PRIMATES
52018		
50200	SES	SESAMOID INDET
50210	PSS	PROXIMAL SESAMOID MEDIAL LATERAL FRONT HIND INDET
50211	PSM	PROXIMAL SESAMOID MEDIAL FRONT OR HIND INDET
50212	PSL	PROXIMAL SESAMOID LATERAL FRONT OR HIND INDET
50220	DSS	DISTAL SESAMOIDMEDIAL OR LATERAL FRONT OR HIND INDET
50221	DSM	DISTAL SESAMOID MEDIAL FRONT OR HIND INDET
50222	DLS	DISTAL SESAMOID LATERAL FRONT OR HIND INDET
51210	FPSS	FRONT PROXIMAL SESAMOID MEDIAL OR LATERAL INDET
51211	FPSM	FRONT PROXIMAL SESAMOID MEDIAL
51212	FPSL	FRONT PROXIMAL SESAMOID LATERAL
51220	FDSS	FRONT DISTAL SESAMOID MEDIAL OR LATERAL INDET
51221	FDSM	FRONT DISTAL SESAMOID MEDIAL
51222	FDSL	FRONT DISTAL SESAMOID LATERAL
52210	HPSS	HIND PROXIMAL SESAMOID MEDIAL OR LATERAL INDET
52211	HPSM	HIND PROXIMAL SESAMOID MEDIAL
52212	HPSL	HIND PROXIMAL SESAMOID LATERAL
52220	HDSS	HIND DISTAL SESAMOID MEDIAL OR LATERAL INDET
52221	HDSM	HIND DISTAL SESAMOID MEDIAL
52222	HDSL	HIND DISTAL SESAMOID LATERAL

50160	HOOF	HOOF COVER
61000	DER	DERMAL BONES
61001	RAY	FIN RAY
61002	SCU	SCUTE
61003	CRP	CARAPACE
61004	PLA	PLASTRON
61005	SKIN	SKIN
61006	SCL	SCALE
61100	SPI	PECTORAL SPINE
90000	NID	TOTALLY NONIDENTIFIABLE
80000	OSC	OSSIFIED CARTILAGE
80001	ASF	ARTICULAR SURFACE FRAGMENT
80002		
80003	ANT	ANTLER
80004	CAB	CANCELLOUS BONE

FIELD .2 PORTION

01	CO	COMPLETE BONE
10	FR	FRAGMENT NOT OTHERWISE SPECIFIED
11	PX	PROXIMAL ARTICULATION OR END
12	PSH	PROXIMAL ARTICUALTION PLUS SHAFT
13	SH	SHAFT
14	DS	DISTAL ARTICULATION OR END
15	DSH	DISTAL ARTICULATION PLUS SHAFT
16	ANT	ANTERIOR
17	PLS	POSTERIOR
18	HFL	ENTIRE BONE SPLIT LONGITUDINALLY IN HALF
19	MID	MIDDLE OR CENTRAL PORTION
20	AMI	ANTERIOR PLUS MIDDLE PORTION
21	PMI	POSTERIOR PLUS MIDDLE PORTION
22	VP	VENTRAL PORTION
23	DP	DORSAL PORTION
24	EI	END INDETERMINATE
25	COT	CROWN OF TOOTH

FIELD 3 SEGMENT

01	LT	LATERAL SEGMENT OF PORTION
02	MD	MEDIAL SECTION OF PORTION
03	AN	ANTERIOR SEGMENT OF PORTION
04	PO	POSTERIOR SEGMENT OF PORTION
05	AL	ANTEROLATERAL SEGMENT OF PORTION
06	PL	POSTEROLATERAL SEGMENT OF PORTION
07	AM	ANTEROMEDIAL SEGMENT OF PORTION
08	PO	POSTEROMEDIAL SEGMENT OF PORTION
09	HF	HALF SEGMENT LATERAL MEDIAL ANTERIOR POSTERIOR INDET
10	FR	UNSPECIFIED FRAGMENT OF PORTION
11	CS	COMPLETE SHAFT TUBULAR
12	DT	DISTAL SEGMENT
13	PX	PROXIMAL SEGMENT

Appendix D

FAUNAL ELEMENT IDENTIFICATIONS

OBS	SITE	UNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
1	DLLG21	061	192	16	1	232.13			4346	10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0	1	500
2	DLLG21	061	188	19	1	231.97			4401	10	0	90000	10	10	26	8.00	.	.	.	.	.	.	.	.	0	0	660
3	DLLG21	061	188	17	1	232.07			4176	10	0	90000	10	10	28	9.00	.	.	.	.	.	.	.	.	0	0	740
4	DLLG21	061	188	18	1	232.03			4200	10	0	90000	10	10	24	5.00	.	.	.	.	.	.	.	.	0	0	880
5	DLLG21	061	188	18	1	232.03			4204	10	0	50100	1	0	1	0.70	.	3	.	.	.	.	.	.	0	0	980
6	DLLG21	061	188	17	1	232.07			4147	10	0	50100	11	.	1	0.20	.	.	.	.	.	.	.	.	0	0	1010
7	DLLG21	061	188	18	1	232.03			4205	10	0	90000	10	10	1	0.20	.	.	.	.	.	.	.	.	0	0	1080
8	DLLG21	061	188	17	1	232.07			4169	10	0	21400	19	0	1	0.90	.	.	.	.	.	.	.	.	0	1	110
9	DLLG21	061	188	19	1	231.97			4400	10	0	40000	24	0	1	0.20	.	.	.	1	.	.	.	.	0	1	120
10	DLLG21	061	188	18	1	232.03			4206	10	0	90000	10	10	1	0.40	.	.	.	.	.	.	.	.	0	1	300
11	DLLG21	061	188	20	1	231.93			4382	10	0	90000	10	10	1	0.30	.	.	.	.	.	.	.	.	0	1	310
12	DLLG21	061	192	17	1	232.07			4151	10	0	90000	10	10	15	6.90	.	.	.	.	.	.	0	.	0	0	40
13	DLLG21	061	192	17	1	232.07			4151	10	0	90000	10	10	10	5.50	.	.	.	1	.	.	.	.	0	0	60
14	DLLG21	061	192	21	.	231.86	060.40	190.08	4241	10	0	90000	10	10	1	0.20	.	.	.	.	.	.	.	.	0	0	120
15	DLLG21	061	192	21	2	231.87			5017	10	0	90000	10	10	18	4.70	.	.	.	.	.	.	.	.	0	0	150
16	DLLG21	061	192	16	1	232.13			4348	10	0	90000	10	10	31	11.10	.	.	.	0	.	.	.	.	0	0	200
17	DLLG21	061	192	19	1	231.97			4782	10	0	90000	10	10	51	22.50	.	.	.	1	.	.	.	.	0	0	220
18	DLLG21	061	192	18	1	232.03			4371	10	0	90000	10	10	58	29.00	.	.	.	.	.	.	.	.	0	0	290
19	DLLG21	061	192	18	1	232.03			4371	10	0	90000	10	10	16	7.00	.	.	.	1	.	.	.	.	0	0	300
20	DLLG21	061	192	18	1	232.03			4371	10	0	90000	10	10	1	1.00	.	.	.	.	.	.	.	.	0	0	380
21	DLLG21	061	192	19	1	231.98			4781	10	0	51122	1	.	1	0.25	1	.	.	.	.	.	.	.	0	1	540
22	DLLG21	061	192	20	1	231.93			4792	10	0	90000	10	10	3	4.80	.	.	.	1	.	.	3	.	0	1	570
23	DLLG21	061	192	20	1	231.93			4792	10	0	90000	10	10	21	14.50	.	.	.	1	.	.	.	.	0	1	580
24	DLLG21	061	192	20	1	231.93			4792	10	0	90000	10	10	4	1.90	.	.	.	2	.	.	.	.	0	1	590
25	DLLG21	061	192	20	1	231.93			4792	10	0	90000	10	10	13	4.30	.	.	.	.	.	.	.	.	0	1	660
26	DLLG21	078	194	27	16	231.56	077.22	192.07	5075	10	0	90000	10	10	1	0.10	.	.	.	2	.	.	.	.	0	1	750
27	DLLG21	078	194	32	3	231.34	077.27	193.57	3338	10	0	90000	10	10	1	1.00	.	.	.	.	.	.	.	.	0	1	760
28	DLLG21	078	194	35	5	231.15	077.74	193.10	3380	10	0	90000	10	10	1	0.50	.	.	.	.	.	.	.	.	0	1	770
29	DLLG21	078	194	33	.	231.29	077.63	193.27	2898	10	0	90000	10	10	1	0.50	.	.	.	.	.	.	.	.	0	1	780
30	DLLG21	078	195	22	.	.			1996	10	0	90000	10	10	1	0.80	.	.	.	.	.	.	.	.	0	1	7590
31	DLLG21	078	196	22	.	231.80	077.23	194.05	4443	10	0	90000	10	10	1	0.20	.	.	.	.	.	.	.	.	0	1	1010
32	DLLG21	078	196	16	.	232.13			4103	10	0	90000	10	10	1	0.10	.	.	.	1	.	.	.	.	0	1	1060
33	DLLG21	086	194	14	.	232.23			4404	10	0	90000	10	10	1	0.10	.	.	.	1	.	.	.	.	0	1	940
34	DLLG21	086	194	14	.	232.23			4404	10	0	90000	10	10	1	0.20	.	.	.	2	.	.	.	.	0	1	950
35	DLLG21	090	177	42	.	230.83	089.85	176.30	7040	10	0	90000	10	10	1	0.05	.	.	.	.	.	.	.	.	0	1	9550
36	DLLG21	090	177	32	.	231.35	088.88	176.30	8000	10	0	90000	10	10	6	0.10	.	.	.	.	.	.	.	.	0	1	9580
37	DLLG21	090	177	32	.	231.35	088.88	176.30	8000	10	0	90000	10	10	1	0.30	.	.	.	.	.	.	.	.	0	1	9590
38	DLLG21	091	177	43	.	230.77			7117	10	0	90000	10	10	2	0.20	.	.	.	.	.	.	.	.	0	0	5420
39	DLLG21	091	177	41	18	230.87	090.90	176.95	6490	10	0	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	0	5820
40	DLLG21	091	177	42	18	230.77			6464	10	0	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	0	6150
41	DLLG21	091	177	34	.	231.23			3468	10	0	90000	10	10	1	1.00	.	.	.	.	.	.	.	.	0	1	2280
42	DLLG21	091	177	42	.	230.85	090.60	176.80	7021	10	0	90000	10	10	3	0.20	.	.	.	.	.	.	.	.	0	1	9450
43	DLLG21	091	177	43	.	231.79	090.10	176.90	7181	10	0	0	10	10	2	0.30	.	.	.	.	.	.	.	.	0	1	9530
44	DLLG21	091	177	44	.	230.75	090.85	176.30	7036	10	0	90000	10	10	7	0.70	.	.	.	.	.	.	.	.	0	1	9650
45	DLLG21	091	177	46	.	230.75	090.85	176.30	7157	10	0	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	9850
46	DLLG21	091	177	46	.	230.75	090.85	176.30	7157	10	0	90000	10	10	1	0.05	.	.	.	.	.	.	.	.	0	1	9870
47	DLLG21	091	177	45	.	230.70	090.85	176.30	7159	10	0	50160	1	0	1	0.10	.	.	.	.	.	.	.	.	0	1	9880
48	DLLG21	092	177	35	.	.			1833	10	0	40000	10	10	2	0.20	.	.	.	.	.	.	.	.	0	0	2220
49	DLLG21	092	177	13	.	232.25			1539	10	0	90000	10	10	1	0.70	.	.	.	.	.	.	.	.	0	0	2230

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	JUVBURRN	JUVCORNT	BREAK	BUTCH	FLAKE	OTHER	REX	BONEUM
50	DLLG21	092	177	48	12	230.52	091.28	176.47	6466	10	0	90000	10	10	3	0.10	.	.	.	.	.	.	.	.	0	0	6250
51	DLLG21	092	177	49	12	.			7116	10	0	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	0	9710
52	DLLG21	092	177	46	12	230.63			2664	10	0	90000	13	10	1	1.50	.	.	.	2	.	.	.	.	0	1	730
53	DLLG21	092	177	48	12	230.50	091.12	176.56	3533	10	0	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	5780
54	DLLG21	092	177	33	15	231.28			1797	10	0	90000	10	10	3	0.60	.	.	.	.	.	.	.	.	0	1	6820
55	DLLG21	092	177	54	.	230.25	091.85	176.30	8004	10	0	90000	10	10	5	0.10	.	.	.	.	.	.	.	.	0	1	9380
56	DLLG21	092	177	49	.	230.50			7025	10	0	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	9610
57	DLLG21	092	177	49	.	230.50			7025	10	0	90000	10	10	47	0.20	.	.	.	.	.	.	.	.	0	1	9620
58	DLLG21	092	177	55	.	230.20	091.85	176.30	8001	10	0	90000	10	10	6	0.10	.	.	.	.	.	.	.	.	0	1	9700
59	DLLG21	092	177	59	.	230.00	091.85	176.30	7004	10	0	90000	10	10	8	0.10	.	.	.	.	.	.	.	.	0	1	9990
60	DLLG21	092	177	59	.	230.00	091.85	176.30	7004	10	0	90000	10	10	31	0.60	.	.	.	.	.	.	.	.	0	2	0
61	DLLG21	092	177	57	.	230.10	091.85	176.30	7003	10	0	90000	10	10	35	1.30	.	.	.	.	.	.	.	.	0	2	70
62	DLLG21	092	177	39	.	.			1875	10	0	90000	10	10	1	0.05	.	.	.	.	.	.	.	.	0	2	80
63	DLLG21	093	172	31	.	231.38			1424	10	0	90000	10	10	1	0.20	.	.	.	2	.	.	.	.	0	1	700
64	DILG21	093	177	.	12	.			6699	10	0	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	0	3850
65	DILG21	093	177	.	.	.			6718	10	0	90000	10	10	1	0.90	.	.	.	.	.	.	.	.	0	0	3980
66	DLLG21	093	177	16	6	230.73	092.12	176.82	3727	10	0	90000	10	10	2	0.80	.	.	.	.	.	.	.	.	0	1	1470
67	DLLG21	093	177	.	.	.			1978	10	0	90000	10	10	1	1.00	.	.	.	2	.	.	.	.	0	1	2970
68	DLLG21	093	177	.	.	.			1978	10	0	90000	10	10	2	0.20	.	.	.	.	.	.	.	.	0	1	2990
69	DLLG21	093	177	19	.	230.47	092.50	176.72	2209	10	0	90000	10	10	2	0.05	.	.	.	.	.	.	.	.	0	1	3670
70	DLLG21	093	177	.	.	.			7063	10	0	90000	10	10	2	0.10	.	.	.	.	.	.	.	.	0	1	8970
71	DLLG21	093	179	25	8	.			6174	10	0	90000	10	10	7	0.10	.	.	.	.	.	.	.	.	0	1	1920
72	DLLG21	093	182	34	.	231.23			1427	10	0	90000	10	10	1	0.10	.	.	.	2	.	.	.	.	0	1	690
73	DLLG21	094	174	39	.	230.99	093.62	173.52	3708	10	0	90000	10	10	2	0.70	.	.	.	.	.	.	.	.	0	1	6140
74	DLLG21	094	175	36	.	231.13	093.44	174.08	6477	10	0	90000	10	10	4	0.40	.	.	.	.	.	.	.	.	0	0	5850
75	DLLG21	094	189	28	16	.			4843	10	0	11000	10	10	1	1.80	.	.	.	.	.	.	.	.	0	1	1680
76	DLLG21	096	174	36	.	231.15	094.09	173.65	7023	10	0	90000	10	10	9	0.20	.	.	.	.	.	.	.	.	0	1	9720
77	DLLG21	096	174	32	.	231.35	094.50	173.60	7007	10	0	90000	10	10	18	0.10	.	.	.	.	.	.	.	.	0	1	9770
78	DLLG21	096	174	32	.	231.35	094.10	173.63	7007	10	0	90000	10	10	3	0.05	.	.	.	.	.	.	.	.	0	1	9950
79	DLLG21	096	174	32	.	231.35	094.10	173.63	7007	10	0	90000	10	10	2	0.05	.	.	.	.	.	.	.	.	0	2	20
80	DLLG21	096	174	35	.	231.20	094.10	173.63	7006	10	0	90000	10	10	1	0.02	.	.	.	.	.	.	.	.	0	2	50
81	DLLG21	096	174	35	.	231.20	094.10	173.30	7006	10	0	90000	10	10	32	0.10	.	.	.	.	.	.	.	.	0	2	140
82		999	999	.	6	.			6448	10	0	90000	10	10	2	0.15	.	.	.	.	.	.	.	.	0	0	5090
83	DLLG21	086	194	26	.	231.63			2220	10	1	.	.	.	.	.	.	.	.	.	.	.	.	.	0	1	980
84	DLLG21	061	188	19	1	231.97			4401	10	100000000	90000	10	10	1	0.60	.	.	.	.	.	.	3	.	0	0	630
85	DLLG21	061	188	19	1	231.97			4401	10	100000000	90000	10	10	20	17.40	.	.	.	1	.	.	.	.	0	0	640
86	DLLG21	061	188	19	1	231.97			4401	10	100000000	90000	10	10	8	4.80	.	.	.	2	.	.	.	.	0	0	650
87	DLLG21	061	188	19	1	231.97			4401	10	100000000	90000	10	10	36	34.20	.	.	.	.	.	.	.	.	0	0	670
88	DLLG21	061	188	19	1	231.97			4401	10	100000000	90000	10	10	4	3.70	.	.	.	.	.	.	3	.	0	0	680
89	DLLG21	061	188	17	1	232.07			4176	10	100000000	40000	10	10	1	0.80	.	.	.	2	.	3	.	.	0	0	690
90	DLLG21	061	188	17	1	232.07			4176	10	100000000	90000	10	10	6	4.90	.	.	.	2	.	.	.	.	0	0	700
91	DLLG21	061	188	17	1	232.07			4176	10	100000000	90000	10	10	14	7.40	.	.	.	1	.	.	.	.	0	0	710
92	DLLG21	061	188	17	1	232.07			4176	10	100000000	40000	10	10	1	0.30	.	.	.	1	.	.	.	.	0	0	720
93	DLLG21	061	188	18	1	232.03			4200	10	100000000	90000	10	10	14	8.90	.	.	.	.	.	.	3	.	0	0	810
94	DLLG21	061	188	18	1	232.03			4200	10	100000000	90000	10	10	88	58.10	.	.	.	.	.	.	.	.	0	0	820
95	DLLG21	061	188	18	1	232.03			4200	10	100000000	90000	10	10	25	24.50	.	.	.	1	.	.	.	.	0	0	840
96	DLLG21	061	188	20	1	231.93			4383	10	100000000	90000	10	10	52	25.00	.	.	.	.	.	.	.	.	0	0	1040
97	DLLG21	061	188	20	1	231.93			4383	10	100000000	90000	10	10	12	6.70	.	.	.	1	.	.	.	.	0	0	1060
98	DLLG21	061	188	20	1	231.93			4383	10	100000000	90000	10	10	9	4.20	.	.	.	2	.	.	.	.	0	0	1070

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
99	DLLG21	061	188	20	1	231.90			4378	10	100000000	90000	10	10	1	0.40	.	.	.	.	2	.	.	.	0	1	8880
100	DLLG21	061	189	21	2	231.87			4491	10	100000000	90000	10	10	4	2.00	.	.	.	.	.	.	.	.	0	0	900
101	DLLG21	061	189	21	2	231.87			4491	10	100000000	90000	10	10	1	0.80	.	.	.	1	.	.	.	.	0	0	910
102	DLLG21	061	189	31	16	231.33			2685	10	100000000	90000	10	10	1	0.40	.	.	.	.	.	.	.	.	0	0	1160
103	DLLG21	061	190	27	2	231.57			4980	10	100000000	90000	10	10	1	4.40	.	.	.	.	.	.	.	.	0	0	430
104	DLLG21	061	190	22	.	231.83			3601	10	100000000	90000	10	10	2	1.70	.	.	.	.	.	.	.	.	0	0	890
105	DLLG21	061	191	19	1	231.97			4782	10	100000000	90000	10	10	9	9.80	.	.	.	.	.	.	.	.	0	0	240
106	DLLG21	061	192	17	1	232.07			4151	10	100000000	90000	10	10	21	26.00	.	.	.	.	.	.	0	.	0	0	20
107	DLLG21	061	192	17	1	232.07			4151	10	100000000	90000	10	10	2	2.00	.	.	.	.	.	.	.	.	0	0	80
108	DLLG21	061	192	21	2	231.87			5017	10	100000000	90000	10	10	12	13.00	.	.	.	.	.	.	.	.	0	0	130
109	DLLG21	061	192	21	2	231.87			5017	10	100000000	90000	10	10	1	1.00	.	.	.	1	.	.	3	.	0	0	140
110	DLLG21	061	192	16	1	232.13			4348	10	100000000	90000	10	10	12	20.50	.	.	.	.	.	.	.	.	0	0	190
111	DLLG21	061	192	19	1	231.97			4782	10	100000000	21003	18	.	1	1.00	.	.	.	.	.	.	.	.	0	0	210
112	DLLG21	061	192	19	1	231.97			4782	10	100000000	90000	10	10	19	16.10	.	.	.	1	.	.	.	.	0	0	270
113	DLLG21	061	192	18	1	232.03			4371	10	100000000	90000	10	10	20	24.00	.	.	.	.	0	2	.	.	0	0	310
114	DLLG21	061	192	18	1	232.03			4371	10	100000000	90000	10	10	7	9.50	.	.	.	1	.	.	.	.	0	0	320
115	DLLG21	061	192	20	1	231.93			4790	10	100000000	90000	10	10	1	3.30	.	.	.	.	.	.	.	.	0	0	450
116	DLLG21	061	192	20	1	231.93			4790	10	100000000	90000	10	10	.	.	.	.	.	.	.	.	2	.	0	1	520
117	DLLG21	061	192	20	1	231.93			4792	10	100000000	90000	10	10	2	0.20	.	.	.	.	.	.	.	.	0	1	8590
118	DLLG21	061	192	17	1	232.07			4151	10	100000000	90000	10	10	5	2.00	.	.	.	.	.	.	3	.	0	1	8630
119	DLLG21	061	192	21	2	231.87			5017	10	100000000	90000	10	10	2	1.00	.	.	.	1	.	.	.	.	0	1	8640
120	DLLG21	078	194	26	16	231.63			4760	10	100000000	13000	10	10	1	0.20	.	.	.	.	.	.	.	.	0	1	790
121	DLLG21	078	194	27	16	231.58			5074	10	100000000	90000	10	10	3	3.20	.	.	.	.	.	.	.	.	0	1	830
122	DLLG21	078	196	30	3	231.44			3744	10	100000000	90000	10	10	1	0.80	.	.	.	2	.	.	.	.	0	1	1000
123	DLLG21	078	196	15	.	232.18			4031	10	100000000	90000	10	10	1	0.20	.	.	.	0	.	.	3	.	0	1	1040
124	DLLG21	078	196	16	.	232.13			4103	10	100000000	90000	10	10	1	1.00	.	.	.	1	.	.	.	.	0	1	1050
125	DLLG21	078	196	16	.	232.13			4103	10	100000000	90000	10	10	4	1.90	.	.	.	.	.	.	.	.	0	1	1080
126	DLLG21	078	196	16	.	232.13			4103	10	100000000	90000	0	0	1	0.20	.	.	.	.	2	.	.	.	0	1	8930
127	DLLG21	085	192	27	.	231.57			6629	10	100000000	90000	10	10	4	1.00	.	.	.	.	.	.	.	.	0	1	4530
128	DLLG21	086	194	14	.	232.23			4252	10	100000000	90000	10	10	2	1.00	.	.	.	.	.	.	.	.	0	1	890
129	DLLG21	086	194	27	16	231.58			2483	10	100000000	90000	10	10	1	1.00	.	.	.	.	.	.	.	.	0	1	900
130	DLLG21	086	194	14	.	232.22	085.14	192.06	4254	10	100000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	910
131	DLLG21	086	194	14	.	232.22	085.15	192.06	4253	10	100000000	90000	10	10	1	1.00	.	.	.	.	.	.	.	.	0	1	920
132	DLLG21	086	194	14	.	232.23			4404	10	100000000	90000	10	10	8	3.80	.	.	.	.	.	.	.	.	0	1	930
133	DLLG21	090	177	42	.	230.83			6461	10	100000000	90000	10	10	2	0.30	.	.	.	.	.	.	.	.	0	0	5010
134	DLLG21	090	177	33	15	231.28			7059	10	100000000	90000	10	10	1	0.80	.	.	.	2	.	.	.	.	0	1	1700
135	DLLG21	090	177	36	.	.			3786	10	100000000	90000	10	10	1	1.10	0	.	.	2	.	.	.	.	0	1	1710
136	DLLG21	090	177	28	.	231.53			3982	10	100000000	90000	10	10	1	1.10	.	.	.	.	.	.	.	.	0	1	1730
137	DLLG21	090	177	32	.	231.33			3983	10	100000000	90000	10	10	1	0.90	.	.	.	.	.	.	.	.	0	1	1740
138	DLLG21	090	177	31	.	231.38			3980	10	100000000	90000	10	10	2	2.80	.	.	.	.	.	.	.	.	0	1	1770
139	DLLG21	090	177	42	.	230.83	089.85	176.30	7040	10	100000000	80004	10	10	4	0.05	.	.	.	.	.	.	.	.	0	1	9540
140	DLLG21	091	177	42	.	230.83			3788	10	100000000	90000	10	10	1	1.20	.	.	.	.	.	.	.	.	0	0	1810
141	DLLG21	091	177	42	.	230.83			3788	10	100000000	90000	10	10	1	1.80	.	.	.	.	.	.	.	.	0	0	1850
142	DLLG21	091	177	43	.	231.75	090.20	176.48	6471	10	100000000	90000	10	10	4	0.60	.	.	.	.	.	.	.	.	0	0	6410
143	DLLG21	091	177	28	3	231.53			2717	10	100000000	90000	10	10	1	1.10	.	.	.	.	.	.	.	.	0	1	2140
144	DLLG21	091	177	35	.	231.18			5843	10	100000000	90000	10	10	6	9.10	.	.	.	.	.	.	.	.	0	1	2310
145	DLLG21	091	177	44	.	230.75	090.85	176.30	7036	10	100000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	9630
146	DLLG21	092	177	31	.	231.37			1698	10	100000000	90000	10	10	1	0.50	.	.	.	.	.	.	.	.	0	0	2170
147	DLLG21	092	177	46	12	230.61	091.08	176.56	2935	10	100000000	90000	13	10	1	2.20	.	.	.	.	.	.	.	.	0	1	710

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
148	DLLG21	092	177	47	12	230.58	091.99	176.78	2971	10	100000000	90000	13	10	1	4.10	.	.	.	.	.	.	.	.	0	1	720
149	DLLG21	092	177	45	5	230.69	091.22	176.58	2761	10	100000000	90000	10	10	2	0.90	.	.	.	2	.	.	.	.	0	1	4000
150	DLLG21	092	177	33	15	231.28			1797	10	100000000	90000	10	10	4	3.00	.	.	.	.	.	.	.	.	0	1	6810
151	DLLG21	092	177	49	.	230.50			7025	10	100000000	90000	10	10	1	0.30	.	.	.	.	.	.	.	.	0	1	9600
152	DLLG21	092	177	55	.	230.20	091.85	176.30	8001	10	100000000	90000	10	10	6	0.40	.	.	.	.	.	.	.	.	0	1	9680
153	DLLG21	092	177	55	.	230.20	091.85	176.30	8001	10	100000000	80004	10	10	1	0.05	.	.	.	.	.	.	.	.	0	1	9710
154	DLLG21	092	177	54	.	230.25	091.29	176.50	7015	10	100000000	80004	10	10	1	0.05	.	.	.	.	.	.	.	.	0	2	10
155	DLLG21	092	177	57	.	230.10	091.85	176.30	7003	10	100000000	90000	10	10	8	0.50	.	.	.	.	.	.	.	.	0	2	60
156	DLLG21	093	174	22	.	231.83			3271	10	100000000	90000	10	10	1	0.20	.	.	.	2	.	.	.	.	0	0	2970
157	DLLG21	093	174	36	18	231.13	092.69	173.13	3690	10	100000000	40000	10	10	2	0.30	.	.	.	.	2	.	.	.	0	1	9160
158	DLLG21	093	174	33	18	231.26	092.88	173.49	3697	10	100000000	40000	1	0	1	0.20	.	.	.	.	2	.	.	.	0	1	9190
159	DLLG21	093	174	32	18	231.32	092.74	173.53	3685	10	100000000	40000	1	0	5	1.50	.	.	.	.	2	.	.	.	0	1	9200
160	DLLG21	093	174	32	18	231.32	092.74	173.53	3685	10	100000000	22000	10	0	5	0.10	.	.	.	.	2	.	.	.	0	1	9210
161	DLLG21	093	177	12	.	.			1288	10	100000000	90000	10	10	3	3.50	.	.	.	1	.	.	.	.	0	0	1480
162	DLLG21	093	177	20	12	230.33			7061	10	100000000	90000	10	10	1	1.00	.	.	.	.	.	.	.	.	0	0	3770
163	DILG21	093	177	.	12	.			6699	10	100000000	90000	10	10	1	1.00	.	.	.	2	.	.	.	.	0	0	3820
164	DILG21	093	177	.	12	.			6699	10	100000000	90000	10	10	1	0.20	.	.	.	.	.	.	.	.	0	0	3840
165	DILG21	093	177	20	.	230.33			7064	10	100000000	90000	10	10	1	0.20	.	.	.	.	.	.	.	.	0	0	4060
166	DILG21	093	177	.	12	.			6699	10	100000000	90000	10	10	1	2.00	.	.	.	2	.	.	.	.	0	0	4190
167	DILG21	093	177	.	12	.			6699	10	100000000	90000	10	10	1	0.50	.	.	.	2	.	.	.	.	0	0	4210
168	DLLG21	093	177	18	.	230.53			7164	10	100000000	90000	10	10	2	5.10	.	.	.	.	.	.	.	.	0	0	7230
169	DLLG21	093	177	.	.	.			6699	10	100000000	80004	10	10	1	0.90	.	.	.	.	.	.	.	.	0	1	250
170	DLLG21	093	177	13	.	230.93			1398	10	100000000	80000	10	10	2	1.50	.	.	.	.	.	.	.	.	0	1	1380
171	DLLG21	093	177	13	.	230.93			1398	10	100000000	90000	10	10	1	2.60	.	.	.	.	.	.	1	.	0	1	1420
172	DLLG21	093	177	13	.	230.93			1398	10	100000000	90000	10	10	2	5.10	.	.	.	.	.	.	.	.	0	1	1430
173	DLLG21	093	177	16	.	230.63			3566	10	100000000	90000	10	10	4	3.10	.	.	.	.	.	.	.	.	0	1	1510
174	DLLG21	093	177	17	.	230.63	092.50	176.72	2917	10	100000000	90000	10	10	1	1.20	.	.	.	.	.	.	1	.	0	1	3200
175	DLLG21	093	177	19	.	.			2203	10	100000000	90000	10	10	3	2.00	.	.	.	2	.	.	.	.	0	1	3300
176	DLLG21	093	177	19	.	.			2203	10	100000000	90000	10	10	1	0.50	.	.	.	.	.	.	.	.	0	1	3310
177	DLLG21	093	177	17	.	230.63			6639	10	100000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	4200
178	DLLG21	093	177	23	.	.			6432	10	100000000	90000	10	10	2	2.10	.	.	.	.	.	.	.	.	0	1	5540
179	DLLG21	093	177	18	.	230.48			7164	10	100000000	40000	1	0	1	0.10	.	.	.	.	2	.	.	.	0	1	9180
180	DLLG21	093	179	12	.	.	092.75	177.78	1284	10	100000000	90000	10	10	1	0.90	.	.	.	.	.	.	.	.	0	1	3180
181	DLLG21	093	179	12	.	.	092.75	177.78	1284	10	100000000	90000	10	10	1	0.20	.	.	.	.	.	.	.	.	0	1	3190
182	DLLG21	093	182	31	4	231.38	092.49	181.47	1424	10	100000000	90000	10	10	1	0.20	.	.	.	2	.	.	.	.	0	1	9330
183	DLLG21	094	174	35	18	.			2831	10	100000000	90000	10	10	1	0.50	.	.	.	.	.	.	.	.	0	0	2290
184	DLLG21	094	174	38	18	231.03	093.66	173.01	3244	10	100000000	90000	10	10	6	5.00	.	.	.	.	.	.	.	.	0	0	2350
185	DLLG21	094	174	40	18	230.92	093.97	173.26	3703	10	100000000	90000	10	10	1	1.10	.	.	.	.	.	.	.	.	0	1	2490
186	DLLG21	094	174	27	16	231.58	093.37	173.28	2425	10	100000000	90000	10	10	1	0.20	.	.	.	.	.	.	.	.	0	1	2680
187	DLLG21	094	174	27	16	231.58	093.37	173.28	2425	10	100000000	90000	10	10	1	0.20	.	.	.	.	.	.	.	.	0	1	2830
188	DLLG21	094	174	34	18	231.36	093.09	173.11	2597	10	100000000	40000	1	0	11	1.80	.	.	.	.	2	.	.	.	0	1	9220
189	DLLG21	094	174	34	18	231.36	093.09	173.11	2597	10	100000000	41100	1	0	4	1.40	.	.	.	.	2	.	.	.	0	1	9230
190	DLLG21	094	174	34	18	231.36	093.09	173.11	2597	10	100000000	41300	1	0	6	1.10	.	.	.	.	2	.	.	.	0	1	9240
191	DLLG21	094	174	34	18	231.36	093.09	173.11	2597	10	100000000	31010	1	0	2	0.30	.	.	.	.	2	.	.	.	0	1	9250
192	DLLG21	094	174	34	18	231.36	093.09	173.11	2597	10	100000000	11000	10	10	29	3.00	.	.	.	.	2	.	.	.	0	1	9260
193	DLLG21	094	174	34	18	231.36	093.09	173.11	2597	10	100000000	22000	10	10	56	1.90	.	.	.	.	2	.	.	.	0	1	9270
194	DLLG21	094	174	34	18	231.36	093.09	173.11	2597	10	100000000	90000	1	0	2	0.20	.	.	.	.	2	.	.	.	0	1	9280
195	DLLG21	094	192	23	.	231.78			4508	10	100000000	90000	10	10	1	1.80	.	.	.	.	.	.	.	.	0	1	1820
196	DLLG21	094	192	.	3	.			2244	10	100000000	90000	10	10	1	2.00	.	.	.	.	.	.	.	.	0	1	1850

OBS	SITE	UNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	EUPT	BURN	JUVCOUNT	BREAK	BUTCH	FLAKE	OTHER	REX	BONEUM
197	DLLG21	096	174	32	.	231.32	095.56	173.53	7118	10	100000000	90000	10	10	1	1.50	.	.	.	.	.	.	.	.	0	0	8840
198	DLLG21	096	174	26	.	231.63			3752	10	100000000	90000	10	10	7	16.20	.	.	.	.	.	.	.	.	0	1	2900
199	DLLG21	096	174	26	.	231.63			3752	10	100000000	90000	10	10	1	0.10	.	.	.	.	.	0	.	.	0	1	2920
200	DLLG21	096	174	35	.	231.20	094.50	173.60	7006	10	100000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	9780
201	DLLG21	096	174	35	.	231.20	094.10	173.63	7006	10	100000000	90000	10	10	1	0.07	.	.	.	.	.	.	.	.	0	1	9980
202	DLLG21	096	174	35	.	231.20	094.10	173.63	7006	10	100000000	90000	10	10	2	0.10	.	.	.	.	.	.	.	.	0	2	30
203	DLLG21	096	174	35	.	231.20	094.10	173.30	7006	10	100000000	90000	10	10	8	0.20	.	.	.	.	.	.	.	.	0	2	100
204	DLLG21	061	192	18	1	232.03			4371	10	101000000	21500	1	0	1	0.90	.	.	.	.	.	.	.	.	0	0	330
205	DLLG21	093	182	25	2	231.68			1416	10	101000000	90000	10	10	1	1.00	.	.	.	.	.	.	.	.	0	1	670
206	DLLG21	093	182	34	.	231.23			1428	10	101000000	90000	10	10	1	1.00	.	.	.	.	.	.	.	.	0	1	680
207	DLLG21	061	192	31	16	231.30	060.20	191.64	2294	10	101010500	13050	1	.	2	50.10	.	.	.	.	.	.	.	.	0	1	480
208	DLLG21	061	192	33	16	231.27	060.10	191.52	2689	10	101010500	51000	1	.	1	21.00	.	.	.	.	.	.	.	.	0	1	490
209	DLLG21	091	177	42	.	230.80	090.10	176.70	5476	10	103010101	13153	1	0	1	1.40	1	1	.	.	.	.	.	.	0	0	2180
210	DLLG21	094	175	37	18	231.07	093.57	174.09	6194	10	103010101	13253	1	0	1	2.00	1	1	.	.	.	.	.	.	0	0	3750
211	DLLG21	092	177	48	15	230.53	091.88	176.52	3549	10	104010000	22000	12	.	1	0.10	.	.	.	.	.	.	.	.	0	1	5710
212	DLLG21	092	177	48	12	230.50	091.12	176.56	3533	10	104010000	50100	1	.	4	0.20	.	.	.	.	.	.	.	.	0	1	5790
213	DLLG21	092	177	48	12	230.50	091.12	176.56	3533	10	104010000	41502	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	5800
214	DLLG21	092	177	48	12	230.50	091.12	176.56	3533	10	104010000	41503	1	.	2	0.20	.	.	.	.	.	.	.	.	0	1	5810
215	DLLG21	092	177	49	12	.			7116	10	104010000	41200	15	0	1	0.60	1	.	.	.	.	.	.	.	0	1	9310
216	DLLG21	092	177	49	12	.			7116	10	104010000	50100	1	0	1	0.10	.	.	.	.	.	.	.	.	0	1	9320
217	DLLG21	093	177	34	.	.			6958	10	104010000	50100	1	0	1	0.20	.	.	.	.	.	.	.	.	0	0	7470
218	DLLG21	096	174	31	.	231.40			7070	10	104010000	41505	1	0	1	0.10	2	.	.	.	.	.	.	.	0	0	8190
219	DLLG21	092	177	48	15	230.53	091.88	176.52	3549	10	104010101	42202	12	.	1	2.30	2	3	.	.	1	.	.	.	0	1	5700
220	DLLG21	093	177	12	.	.			6775	10	104010101	31010	1	.	1	0.90	2	.	.	.	.	.	1	.	0	1	5840
221	DLLG21	093	177	12	.	.			6775	10	104010101	31010	11	13	1	0.50	1	.	.	.	.	.	.	.	0	1	5850
222	DLLG21	091	177	45	.	230.70	090.85	176.30	7159	10	104010200	40500	1	0	3	0.70	.	.	.	.	.	.	.	.	0	2	150
223	DLLG21	091	177	45	.	230.70	090.85	176.30	7159	10	104010200	52001	1	0	1	0.30	.	.	.	.	.	.	.	.	0	2	160
224	DLLG21	091	177	45	.	230.70	090.85	176.30	7159	10	104010200	50000	1	0	3	0.20	.	.	.	.	.	.	.	.	0	2	170
225	DLLG21	093	177	16	.	230.78	092.60	176.70	2207	10	104010200	52002	1	.	1	0.80	1	.	.	.	.	.	.	.	0	1	3690
226	DLLG21	091	177	42	.	230.83			3788	10	104010201	42100	1	0	1	3.40	2	1	.	.	.	.	.	.	0	0	7690
227	DLLG21	091	177	42	.	230.83			3788	10	104010201	42200	12	0	1	1.30	2	1	.	.	.	.	.	.	0	0	7700
228	DLLG21	091	177	43	.	230.77			7117	10	104010201	42200	15	0	1	1.00	1	.	.	.	.	.	.	.	0	0	8070
229	DLLG21	091	177	37	.	231.10			5845	10	104010201	41300	12	.	1	0.60	1	.	.	.	.	.	.	.	0	1	6460
230	DLLG21	092	177	47	12	230.57	091.82	176.53	2970	10	104010201	41100	1	0	1	2.00	2	.	.	.	.	.	.	.	0	0	7330
231	DLLG21	092	177	47	12	230.57	091.82	176.53	2970	10	104010201	41200	15	0	1	0.60	2	.	.	.	.	1	.	.	0	0	7340
232	DLLG21	092	177	47	12	230.57	091.82	176.53	2970	10	104010201	50000	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	7350
233	DLLG21	092	177	49	.	230.47			7116	10	104010201	42200	12	0	1	2.10	1	3	.	.	.	.	.	.	0	0	7380
234	DLLG21	092	177	49	.	230.47			7116	10	104010201	42100	1	0	1	3.10	2	.	.	.	.	.	.	.	0	0	7390
235	DLLG21	092	177	49	.	230.47			7116	10	104010201	41100	1	.	1	1.70	1	.	.	.	.	.	.	.	0	0	7400
236	DLLG21	092	177	49	.	230.47			7116	10	104010201	32077	1	.	1	2.00	1	.	.	.	.	1	.	.	0	0	7410
237	DLLG21	092	177	47	.	230.55	091.05	176.21	2977	10	104010201	42202	1	0	1	2.90	2	4	.	.	.	.	.	.	0	0	7520
238	DLLG21	092	177	50	12	230.40	091.01	176.46	6481	10	104010201	12001	21	0	1	2.50	2	.	.	.	.	.	.	.	0	0	7750
239	DLLG21	092	177	45	6	230.68	091.95	176.78	2753	10	104010201	42100	12	0	1	2.20	1	1	.	.	.	.	.	.	0	0	7820
240	DLLG21	092	177	44	.	230.70	091.95	176.89	2575	10	104010201	42100	15	0	1	1.40	1	.	.	.	.	.	.	.	0	1	390
241	DLLG21	092	177	49	12	.			7116	10	104010201	12000	1	.	1	2.00	2	.	.	.	.	.	.	.	0	1	4700
242	DLLG21	092	177	49	12	.			7116	10	104010201	13211	1	.	1	0.10	2	.	.	.	.	.	.	.	0	1	4710
243	DLLG21	092	177	49	12	.			7116	10	104010201	13233	1	.	1	0.10	2	.	.	.	.	.	.	.	0	1	4720
244	DLLG21	092	177	49	12	.			7116	10	104010201	13251	1	.	1	0.10	2	.	.	.	.	.	.	.	0	1	4730
245	DLLG21	092	177	49	12	.			7116	10	104010201	13252	1	.	1	0.10	2	.	.	.	.	.	.	.	0	1	4740

OBS	SITE	UNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	EUPT	BURN	JUVCOUNT	BREAK	BUTCH	FLAKE	OTHER	REX	BONEUM
246	DLLG21	092	177	48	15	230.53	091.88	176.52	3549	10	104010201	42100	1	.	1	3.7	2	.	.	.	.	.	.	.	0	1	5670
247	DLLG21	092	177	48	15	230.53	091.88	176.52	3549	10	104010201	41300	1	.	1	0.8	2	.	.	.	.	.	.	.	0	1	5680
248	DLLG21	092	177	48	15	230.53	091.88	176.52	3549	10	104010201	41200	1	.	1	0.8	1	.	.	.	.	.	.	.	0	1	5690
249	DLLG21	092	177	47	12	.			2981	10	104010201	42100	1	.	1	4.0	2	2	.	.	.	.	.	.	0	1	6180
250	DLLG21	092	177	48	.	230.52	091.12	176.57	3542	10	104010201	41200	1	.	1	0.7	2	.	.	.	.	.	.	.	0	1	6290
251	DLLG21	092	177	48	12	230.52	091.16	176.53	3543	10	104010201	42100	1	.	1	2.4	1	3	.	.	1	.	.	.	0	1	6670
252	DLLG21	092	177	48	12	230.90	091.13	176.65	3531	10	104010201	42202	1	.	1	2.7	2	3	.	.	1	.	1	.	0	1	7040
253	DLLG21	092	177	48	.	230.51	091.18	176.60	3550	10	104010201	41300	1	.	1	0.5	2	.	.	.	.	.	.	.	0	1	7220
254	DLLG21	092	177	48	.	230.51	091.18	176.60	3550	10	104010201	32077	1	.	1	1.7	1	.	.	.	.	.	.	.	0	1	7230
255	DLLG21	093	174	41	15	230.88	092.72	173.04	6479	10	104010201	41100	1	0	2	1.9	2	.	.	.	.	.	.	.	0	0	7550
256	DLLG21	093	174	39	18	230.99	092.94	173.10	3688	10	104010201	12001	1	.	1	2.3	2	.	.	.	.	.	.	.	0	1	2640
257	DLLG21	093	174	39	18	230.96	092.93	173.09	3747	10	104010201	12001	1	.	1	1.8	2	.	.	.	.	.	.	.	0	1	6830
258	DLLG21	093	174	39	18	230.96	092.93	173.09	3747	10	104010201	13231	1	.	1	0.1	.	.	.	.	.	.	.	.	0	1	6840
259	DLLG21	093	174	40	15	230.90	092.72	173.07	3691	10	104010201	32074	10	.	1	2.0	2	.	.	.	.	.	.	.	0	1	6850
260	DLLG21	093	177	34	.	.			6958	10	104010201	42501	1	0	1	0.4	1	.	.	.	.	.	.	.	0	0	7440
261	DLLG21	093	177	34	.	.			6958	10	104010201	42503	1	0	1	0.4	1	.	.	.	.	.	.	.	0	0	7450
262	DLLG21	093	177	34	.	.			6958	10	104010201	42504	1	0	1	0.3	1	.	.	.	.	.	.	.	0	0	7460
263	DLLG21	093	177	18	.	230.53			7164	10	104010201	42100	1	0	1	3.4	2	.	.	.	.	.	.	.	0	0	7740
264	DLLG21	093	177	16	.	230.78	092.60	176.70	2907	10	104010201	21300	1	0	4	3.3	.	4	.	.	.	.	.	.	0	0	7790
265	DLLG21	093	177	.	.	.			6698	10	104010201	21300	1	0	1	1.7	.	4	.	.	.	.	.	.	0	0	7800
266	DLLG21	093	177	18	18	230.53			7066	10	104010201	42100	12	.	1	2.4	1	.	.	.	.	.	.	.	0	1	5730
267	DLLG21	093	177	18	18	231.75			7066	10	104010201	32077	1	.	1	2.3	2	.	.	.	.	.	.	.	0	1	5740
268	DLLG21	093	177	12	.	.			6775	10	104010201	41200	12	.	1	0.3	2	.	.	.	.	.	.	.	0	1	5830
269	DLLG21	093	177	.	12	.			6699	10	104010201	52001	1	.	1	0.6	2	.	.	.	.	.	.	.	0	1	6500
270	DLLG21	093	177	36	18	231.13	092.69	176.13	3690	10	104010201	50100	1	.	1	0.1	.	.	.	.	.	.	.	.	0	1	6660
271	DLLG21	094	174	38	18	231.01	093.14	173.02	3235	10	104010201	12001	17	0	2	1.8	1	.	.	.	.	.	.	.	0	0	2280
272	DLLG21	094	175	35	18	231.15	093.53	174.07	6467	10	104010201	32071	16	.	1	1.0	.	.	.	.	.	.	.	.	0	1	8560
273	DLLG21	096	174	32	.	231.32	095.56	173.53	7118	10	104010201	21300	1	0	1	0.6	.	3	.	.	.	.	.	.	0	0	8830
274	DLLG21	096	174	31	.	231.36	094.97	173.90	3756	10	104010201	12001	1	.	1	2.0	2	.	.	.	.	.	.	.	0	1	2940
275	DLLG21	096	174	31	.	231.36	094.97	173.90	3756	10	104010201	12001	17	10	1	1.1	1	.	.	.	.	.	.	.	0	1	2950
276	DLLG21	096	174	32	18	.			7072	10	104010201	42100	12	11	1	1.3	1	.	.	.	.	.	.	.	0	1	6740
277	DLLG21	096	174	32	18	.			7072	10	104010201	41100	1	.	1	1.4	2	.	.	.	.	.	.	.	0	1	6750
278	DLLG21	061	192	21	2	231.87			5017	10	105000000	21003	18	.	1	4.2	.	3	.	.	.	.	.	3	0	0	160
279	DLLG21	061	192	21	2	231.87			5017	10	105000000	52155	1	.	1	1.0	.	3	.	.	.	.	.	.	0	0	170
280	DLLG21	061	192	18	1	232.03			4368	10	106000000	90000	10	10	1	2.8	.	.	.	.	.	.	3	.	0	0	110
281	DLLG21	093	177	17	.	230.63	092.50	176.72	2917	10	106010100	22200	19	11	1	5.0	.	.	.	.	.	.	1	.	0	1	3220
282	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13251	1	0	1	0.8	1	1	1	.	.	.	.	.	0	0	2440
283	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	12000	1	0	1	7.5	1	.	.	.	.	.	.	.	0	0	2450
284	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	12000	1	0	1	7.4	2	.	.	.	.	.	.	.	0	0	2460
285	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13251	1	0	1	0.9	2	1	1	.	.	.	.	.	0	0	2470
286	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	11005	17	1	1	3.5	1	.	.	.	.	.	.	.	0	0	2480
287	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	11005	17	1	1	4.5	2	.	.	.	.	.	.	.	0	0	2490
288	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13134	1	0	1	0.9	1	1	1	.	.	.	.	.	0	0	2500
289	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13252	1	0	1	0.2	1	1	1	.	.	.	.	.	0	0	2510
290	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13252	1	0	1	0.2	2	1	1	.	.	.	.	.	0	0	2520
291	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13020	1	0	1	0.8	1	1	1	.	.	.	.	.	0	0	2530
292	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13020	1	0	1	0.7	1	1	1	.	.	.	.	.	0	0	2540
293	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13020	1	0	1	0.8	2	1	1	.	.	.	.	.	0	0	2550
294	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13020	25	0	1	0.5	2	.	.	.	.	.	.	.	0	0	2560

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SBG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
295	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13133	1	0	1	0.20	1	1	1	.	.	.	.	.	0	0	2570
296	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13132	1	0	1	0.10	1	1	1	.	.	.	.	.	0	0	2580
297	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13131	1	0	1	0.10	1	1	1	.	.	.	.	.	0	0	2590
298	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13133	1	0	1	0.20	2	1	1	.	.	.	.	.	0	0	2600
299	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13132	1	0	1	0.10	2	1	1	.	.	.	.	.	0	0	2610
300	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13010	1	0	8	0.70	.	1	1	.	.	.	.	.	0	0	2620
301	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13253	1	0	1	0.05	2	1	1	.	.	.	.	.	0	0	2630
302	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13234	1	0	1	0.20	1	1	1	.	.	.	.	.	0	0	2640
303	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13234	1	0	1	0.20	2	1	1	.	.	.	.	.	0	0	2650
304	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13233	1	0	1	0.10	1	1	.	.	.	.	.	.	0	0	2660
305	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13233	1	0	1	0.10	2	1	1	.	.	.	.	.	0	0	2670
306	DLLG21	093	177	16	.	230.72	032.62	175.60	1970	10	106010201	13232	1	0	1	0.10	1	1	1	.	.	.	.	.	0	0	2680
307	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13232	1	0	1	0.10	2	1	1	.	.	.	.	.	0	0	2690
308	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	11002	1	0	1	0.40	2	.	.	.	.	.	.	.	0	0	2700
309	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	13131	1	0	1	0.10	2	1	1	.	.	.	.	.	0	0	2710
310	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	21101	1	0	1	2.10	.	.	.	.	.	.	.	.	0	0	2730
311	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	21102	1	0	1	2.40	.	2	.	.	.	.	.	.	0	0	2740
312	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	21107	1	0	1	1.20	.	1	.	.	.	.	.	.	0	0	2750
313	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	21106	1	0	1	1.80	.	2	.	.	.	.	.	.	0	0	2760
314	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	21100	1	0	1	1.80	.	4	.	.	.	.	.	.	0	0	2770
315	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	21100	1	0	1	1.90	.	4	.	.	.	.	.	.	0	0	2780
316	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	11016	1	0	1	0.90	1	.	.	.	.	.	.	.	0	0	2790
317	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	11002	16	0	1	0.20	1	.	.	.	.	.	.	.	0	0	2800
318	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	11023	1	0	2	1.00	1	.	.	.	.	.	.	.	0	0	2810
319	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	11012	1	0	1	1.40	2	.	.	.	.	.	.	.	0	0	2820
320	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	106010201	11065	17	0	1	1.30	.	.	.	.	.	.	.	.	0	0	2830
321	DLLG21	093	177	.	.	230.72	092.62	175.60	1970	10	106010201	11008	1	0	1	0.40	1	.	.	.	.	.	.	.	0	0	2840
322	DLLG21	093	177	.	.	230.72	092.62	175.60	1970	10	106010201	11008	1	0	1	0.40	2	.	.	.	.	.	.	.	0	0	2850
323	DLLG21	093	177	.	.	230.72	092.62	175.60	1970	10	106010201	11006	1	0	1	0.10	1	.	.	.	.	.	.	.	0	0	2860
324	DLLG21	093	177	.	.	230.72	092.62	175.60	1970	10	106010201	11006	1	0	1	0.10	2	.	.	.	.	.	.	.	0	0	2870
325	DLLG21	093	177	.	.	230.72	092.62	175.60	1970	10	106010201	11066	1	0	1	0.80	.	.	.	.	.	.	.	.	0	0	2880
326	DLLG21	093	177	.	.	230.72	092.62	175.60	1970	10	106010201	11012	17	8	2	1.30	1	.	.	.	.	.	.	.	0	0	2890
327	DLLG21	093	177	.	.	230.72	092.62	175.60	1970	10	106010201	11020	17	8	1	0.90	1	.	.	.	.	.	.	.	0	0	2900
328	DLLG21	093	177	.	.	230.72	092.62	175.60	1970	10	106010201	11067	1	0	1	3.20	1	.	.	.	.	.	.	.	0	0	2910
329	DLLG21	093	177	.	.	230.72	092.62	175.60	1970	10	106010201	11024	1	0	1	1.00	2	.	.	.	.	.	.	.	0	0	2920
330	DLLG21	093	177	.	.	230.72	092.62	175.60	1970	10	106010201	11009	19	0	1	0.20	.	.	.	.	.	.	.	.	0	0	2930
331	DLLG21	093	177	.	.	230.72	092.62	175.60	1970	10	106010201	11026	19	10	1	0.10	.	.	.	.	.	.	.	.	0	0	2940
332	DLLG21	093	177	.	.	230.72	092.62	175.60	1970	10	106010201	11001	10	10	10	1.60	.	.	.	.	.	.	.	.	0	0	2950
333	DLLG21	194	190	29	.	231.48	193.86	189.16	2259	10	106020101	13152	1	.	1	3.20	1	.	.	.	.	.	.	.	0	1	4060
334	DLLG21	094	189	22	.	231.84	093.84	188.15	4552	10	106050201	41100	1	0	1	3.60	2	4	.	.	.	.	.	.	0	0	7590
335	DLLG21	194	190	19	.	231.95	193.58	189.00	2110	10	106050201	11005	17	0	1	0.50	.	.	.	.	.	.	.	.	0	0	7600
336	DLLG21	194	190	19	.	231.95	193.58	189.00	2110	10	106050201	11000	10	10	4	1.10	.	.	.	.	.	.	.	.	0	0	7610
337	DLLG21	194	190	19	.	231.95	193.58	189.00	2110	10	106050201	11026	10	0	2	1.10	.	.	.	.	.	.	.	.	0	0	7620
338	DLLG21	194	190	19	.	231.95	193.58	189.00	2110	10	106050201	11016	1	0	1	0.20	2	.	.	.	.	.	.	.	0	0	7630
339	DLLG21	194	190	19	.	231.95	193.58	189.00	2110	10	106050201	12001	1	0	1	1.80	1	.	.	.	.	.	.	.	0	0	7640
340	DLLG21	194	190	19	.	231.95	193.58	189.00	2110	10	106050201	12001	19	0	1	1.30	2	.	.	.	.	.	.	.	0	0	7650
341	DLLG21	194	190	19	.	231.95	193.58	189.00	2110	10	106050201	.	1	0	2	0.10	.	.	.	.	.	.	.	.	0	0	7660
342	DLLG21	194	190	19	.	231.95	193.58	189.00	2110	10	106050201	40500	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	7670
343	DLLG21	194	190	19	.	231.95	193.58	189.00	2110	10	106050201	11000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	0	7680

OBS	SITE	NUNIT	BUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BRBAK	BUTCH	FLAKE	OTHER	REX	BONENUM
344	DLLG21	061	188	17	1	232.07			4168	10	107000000	50100	11	0	1	1.30	.	3	.	.	.	.	.	.	0	0	9210
345	DLLG21	074	187	29	.	.			6230	10	107000000	13050	19	0	1	3.80	.	.	.	.	.	.	.	.	0	0	1520
346	DLLG21	078	194	26	3	231.63			4761	10	107000000	13001	1	.	2	0.90	.	1	.	.	.	.	.	.	0	1	800
347	DLLG21	078	194	26	3	231.63			4761	10	107000000	13000	10	10	3	5.00	.	.	.	.	.	.	1	.	0	1	810
348	DLLG21	078	194	27	16	231.58			5074	10	107000000	13000	10	10	1	3.90	.	.	.	.	.	.	.	.	0	1	840
349	DLLG21	078	195	29	.	231.40	077.99	194.16	2539	10	107000000	13050	19	0	1	3.00	.	.	.	.	.	.	.	.	0	0	1510
350	DLLG21	078	196	14	.	232.21	077.22	194.05	4021	10	107000000	52001	.	.	1	1.30	.	.	.	.	.	.	.	.	0	1	1020
351	DLLG21	092	177	43	6	230.75	091.05	176.66	2168	10	107000000	41200	13	10	1	23.10	.	.	.	.	.	.	.	.	0	1	4050
352	DLLG21	092	177	45	.	230.69	091.19	176.90	2756	10	107000000	42300	12	0	1	5.00	1	.	.	.	.	.	.	.	0	1	8790
353	DLLG21	093	177	18	.	230.53			7062	10	107000000	23000	1	0	1	5.00	.	.	.	.	.	.	.	.	0	0	4700
354	DLLG21	093	177	23	12	230.03			6455	10	107000000	32076	1	0	1	322.60	2	.	.	.	.	.	3	.	0	0	8610
355	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107000000	21300	1	.	2	53.50	.	.	.	.	.	.	3	.	0	0	9090
356	DLLG21	093	177	18	12	230.54	092.11	176.35	3758	10	107000000	22000	12	0	1	3.20	.	3	.	.	.	.	1	.	0	0	9420
357	DLLG21	093	177	17	.	230.63			6639	10	107000000	21500	14	4	1	2.90	.	.	.	.	.	.	.	.	0	1	4150
358	DLLG21	094	174	35	18	231.03	093.46	173.68	2803	10	107000000	22000	19	0	1	127.10	.	.	.	.	.	.	1	.	0	0	2390
359	DLLG21	094	174	35	18	231.03	093.06	172.26	2808	10	107000000	22000	19	0	1	52.30	.	.	.	.	.	.	2	.	0	0	2400
360	DLLG21	094	174	38	18	.			3256	10	107000000	21200	19	6	1	4.50	.	.	.	.	.	.	.	.	0	1	2850
361	DLLG21	093	177	.	.	.			2930	10	107010000	52018	11	0	1	1.00	.	3	.	.	.	.	.	.	0	0	9260
362	DLLG21	061	192	32	16	231.30	060.20	191.64	2294	10	107010201	13251	1	0	1	49.70	.	1	.	.	.	.	.	.	0	0	8060
363	DLLG21	061	188	20	1	231.93	060.39	186.12	4381	10	107020000	21100	16	1	1	11.00	.	.	.	.	.	.	1	.	0	0	8990
364	DLLG21	061	192	33	16	231.27	060.10	191.52	2689	10	107020000	51025	1	0	1	21.10	1	.	.	.	.	.	.	.	0	0	8480
365	DLLG21	075	185	30	15	231.43			3749	10	107020000	21500	1	0	1	12.00	.	.	.	1	.	.	.	.	0	1	400
366	DLLG21	086	191	23	.	231.79	085.14	189.10	4614	10	107020000	21107	21	9	1	26.90	1	3	.	.	.	.	.	.	0	1	3270
367	DLLG21	091	176	41	.	230.87			3787	10	107020000	21312	1	.	.	13.70	.	.	.	.	.	.	.	.	0	0	480
368	DLLG21	091	176	41	.	230.87			3787	10	107020000	80000	12	.	1	13.80	.	.	.	.	.	.	.	.	0	1	5970
369	DLLG21	091	176	41	.	230.87			3787	10	107020000	22000	19	4	1	6.30	.	.	.	.	.	.	.	.	0	1	5980
370	DLLG21	091	177	34	17	231.21	090.40	176.02	3463	10	107020000	21223	19	0	1	53.30	.	.	.	.	.	.	3	.	0	0	1540
371	DLLG21	091	177	34	17	231.21	090.40	176.02	3463	10	107020000	22100	12	0	1	93.10	.	.	.	.	.	.	0	.	0	0	1550
372	DLLG21	091	177	34	.	231.22	090.77	175.02	3462	10	107020000	21314	17	8	2	61.90	.	3	.	.	.	.	3	.	0	0	1560
373	DLLG21	091	177	35	.	231.16	090.12	176.50	5841	10	107020000	42200	12	1	1	38.30	1	1	.	.	.	.	1	.	0	0	1590
374	DLLG21	091	177	35	.	231.15	091.00	176.40	5844	10	107020000	21204	22	1	1	38.80	1	3	.	.	.	.	3	.	0	0	1610
375	DLLG21	091	177	42	18	230.80	090.12	176.90	3806	10	107020000	32010	1	0	1	270.80	1	3	.	.	.	.	.	.	0	0	1660
376	DLLG21	091	177	41	18	230.85	090.45	176.60	3792	10	107020000	22000	12	3	1	47.10	2	.	.	.	.	.	1	.	0	0	1670
377	DLLG21	091	177	41	18	230.86	090.70	176.80	3793	10	107020000	22000	12	3	1	34.00	2	.	.	.	.	.	1	.	0	0	1680
378	DLLG21	091	177	41	18	230.88	090.55	176.70	3809	10	107020000	21200	17	1	1	36.50	1	2	.	.	.	.	3	.	0	0	1690
379	DLLG21	091	177	42	.	230.83			3788	10	107020000	22000	12	0	1	51.80	2	2	.	.	.	.	.	.	0	0	1710
380	DLLG21	091	177	32	.	231.33			3455	10	107020000	22200	12	0	1	27.10	1	.	.	.	.	.	3	.	0	0	4390
381	DLLG21	091	177	44	.	230.73			6459	10	107020000	21221	18	0	1	40.81	.	1	.	.	.	.	2	.	0	0	4950
382	DLLG21	091	177	43	.	230.77			7117	10	107020000	22000	12	0	1	57.00	.	.	.	.	.	.	1	.	0	0	5510
383	DLLG21	091	177	43	.	230.77			7117	10	107020000	22000	11	1	1	34.90	.	.	.	.	.	.	1	1	0	0	8090
384	DLLG21	091	177	43	.	231.75	090.20	176.48	6471	10	107020000	31014	14	0	1	310.50	2	.	.	.	.	.	2	.	0	0	8360
385	DLLG21	091	177	42	.	230.83			3788	10	107020000	52005	1	0	1	112.50	1	.	.	.	.	.	.	.	0	0	8550
386	DLLG21	091	177	36	.	231.12	090.15	176.88	3491	10	107020000	22001	1	.	1	1.20	1	.	.	.	.	.	.	.	0	1	2130
387	DLLG21	092	177	23	.	230.65	091.34	176.72	2751	10	107020000	32075	1	0	1	425.02	0	.	.	.	.	.	3	.	0	0	1530
388	DLLG21	092	177	44	6	230.70	091.71	176.60	2184	10	107020000	41100	11	8	1	49.10	2	1	.	.	.	.	3	.	0	0	1570
389	DLLG21	092	177	42	6	230.82	091.79	176.86	2569	10	107020000	51001	1	0	1	31.20	1	.	.	.	.	.	.	.	0	0	1580
390	DLLG21	092	177	44	6	230.74	091.90	176.89	2583	10	107020000	21500	1	0	1	3.90	.	1	.	.	.	.	.	.	0	0	1960
391	DLLG21	092	177	47	12	230.55	091.67	175.91	3832	10	107020000	21200	18	1	1	55.00	.	.	.	.	.	.	3	.	0	0	2060
392	DLLG21	092	177	49	12	230.45	091.88	176.49	3833	10	107020000	42200	19	0	1	138.90	1	.	.	.	.	.	1	.	0	0	2110

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DED	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
393	DLLG21	092	177	48	12	230.54	091.86	176.53	3544	10	107020000	21500	1	0	1	6.3	.	3	.	.	.	.	.	.	0	0	3140
394	DLLG21	092	177	48	12	230.51	091.73	175.91	3540	10	107020000	22000	12	0	1	27.3	.	.	.	.	.	.	.	.	0	0	3190
395	DLLG21	092	177	47	12	230.55	091.03	176.95	2967	10	107020000	21300	19	0	1	48.3	.	.	.	.	.	.	3	.	0	0	3230
396	DLLG21	092	177	46	6	230.61	091.89	176.61	2932	10	107020000	21500	1	0	1	4.9	.	3	.	.	.	.	.	.	0	0	3290
397	DLLG21	092	177	46	12	230.62	091.12	176.87	2931	10	107020000	21312	19	0	1	66.2	1	.	.	.	.	.	1	.	0	0	3330
398	DLLG21	092	177	48	12	230.54	091.10	176.14	3440	10	107020000	22000	12	0	1	89.9	2	.	.	.	.	.	1	.	0	0	3350
399	DLLG21	092	177	47	12	230.55	091.99	176.55	2983	10	107020000	51018	1	0	1	21.4	1	.	.	.	.	.	.	.	0	0	3360
400	DLLG21	092	177	47	12	230.55	091.13	176.95	2969	10	107020000	21300	19	6	1	44.0	1	.	.	.	.	.	.	.	0	0	3380
401	DILG21	092	177	.	12	.			6755	10	107020000	50200	1	0	1	7.1	.	.	.	.	.	.	.	.	0	0	3880
402	DLLG21	092	177	34	17	231.20	091.38	176.08	1817	10	107020000	32010	19	0	1	112.8	1	.	.	.	.	.	2	.	0	0	4440
403	DLLG21	092	177	47	12	230.57	091.90	175.90	2979	10	107020000	52001	1	0	1	169.5	1	.	.	.	.	.	1	.	0	0	4480
404	DLLG21	092	177	45	6	230.68	091.95	176.78	2753	10	107020000	21500	1	0	2	15.1	.	3	.	.	.	.	.	.	0	0	4620
405	DLLG21	092	177	47	12	230.57	091.60	176.47	2975	10	107020000	31013	19	0	1	108.4	2	.	.	.	.	.	.	.	0	0	4640
406	DLLG21	092	177	46	6	230.60	091.66	175.83	2943	10	107020000	50160	1	0	2	17.2	.	.	.	.	.	.	.	.	0	0	6890
407	DLLG21	092	177	46	.	230.60	091.72	175.78	2944	10	107020000	50160	10	10	4	16.6	.	.	.	.	.	.	.	.	0	0	6900
408	DLLG21	092	177	36	.	231.10	091.47	176.46	1856	10	107020000	42100	11	13	1	24.7	.	.	.	.	.	.	2	.	0	0	7060
409	DLLG21	092	177	45	12	230.65	091.05	176.86	2767	10	107020000	31011	11	0	1	85.7	1	.	.	.	.	.	2	.	0	0	8370
410	DLLG21	092	177	44	6	230.70	091.20	176.04	2577	10	107020000	41200	13	12	1	171.7	1	.	.	.	.	.	3	.	0	0	8430
411	DLLG21	092	177	42	6	230.80	091.73	176.86	2568	10	107020000	51011	1	0	1	24.9	1	.	.	.	.	.	.	.	0	0	8500
412	DLLG21	092	177	42	6	230.77	091.92	175.67	2142	10	107020000	22000	12	0	1	51.0	2	.	.	.	.	.	3	.	0	0	8570
413	DLLG21	092	177	42	6	230.77	091.92	175.67	2412	10	107020000	22000	12	0	1	22.1	2	.	.	.	.	.	1	.	0	0	8580
414	DLLG21	092	177	47	12	230.59	091.99	176.45	2978	10	107020000	41300	13	0	1	70.3	2	3	.	.	1	.	.	.	0	0	8730
415	DLLG21	092	177	38	6	231.04	091.30	175.65	3740	10	107020000	50101	1	0	1	63.4	.	.	.	.	.	.	1	.	0	0	8740
416	DLLG21	092	177	48	12	230.54	091.77	176.40	3546	10	107020000	50102	15	0	1	22.9	.	.	.	.	.	.	3	.	0	0	8790
417	DLLG21	092	177	47	12	230.55	091.15	176.89	2973	10	107020000	32020	1	0	1	280.1	2	.	.	.	.	.	2	.	0	0	8860
418	DLLG21	092	177	50	12	230.40	091.04	176.75	6460	10	107020000	32020	16	1	1	69.0	1	.	.	.	.	.	1	.	0	0	9010
419	DLLG21	092	177	48	12	230.52	091.27	176.25	3439	10	107020000	31014	14	1	1	56.8	2	.	.	.	.	.	1	.	0	0	9340
420	DLLG21	092	177	49	12	230.45	091.91	176.65	3839	10	107020000	32010	17	0	1	303.3	1	.	.	.	.	.	3	.	0	0	9360
421	DLLG21	092	177	49	12	230.45	091.91	176.65	3839	10	107020000	21400	18	1	1	70.1	0	.	.	.	.	.	2	.	0	0	9370
422	DLLG21	092	177	47	12	230.55	091.70	175.90	2968	10	107020000	21200	23	2	1	67.7	.	.	.	.	.	.	1	.	0	0	9380
423	DLLG21	092	177	44	.	230.70	091.95	176.89	2575	10	107020000	21500	1	0	3	71.0	.	2	.	.	.	.	.	.	0	1	360
424	DLLG21	092	177	44	.	230.70	091.95	176.89	2575	10	107020000	21500	1	0	1	11.9	.	4	.	.	.	.	.	.	0	1	370
425	DLLG21	092	177	44	.	230.70	091.95	176.89	2575	10	107020000	21500	17	0	1	8.5	.	2	.	.	.	.	1	.	0	1	380
426	DLLG21	092	177	47	12	230.56	091.82	176.53	2972	10	107020000	21500	24	0	1	10.0	.	.	.	.	.	.	.	.	0	1	420
427	DLLG21	092	177	45	12	230.66	091.08	176.28	2765	10	107020000	41100	14	8	1	35.1	2	.	.	.	.	.	1	.	0	1	3940
428	DLLG21	092	177	32	3	231.30	091.88	175.60	1755	10	107020000	22000	12	13	1	16.8	1	.	.	.	.	.	.	.	0	1	4040
429	DLLG21	092	177	50	12	230.40	091.05	175.89	3837	10	107020000	21300	17	.	1	41.8	1	3	.	.	.	.	.	.	0	1	5330
430	DLLG21	092	177	50	12	230.40	091.05	175.89	3837	10	107020000	21300	18	.	1	67.6	1	3	.	.	.	.	.	.	0	1	5340
431	DLLG21	092	177	50	12	230.40	091.05	175.89	3837	10	107020000	21003	18	.	2	10.8	.	.	.	.	.	.	.	.	0	1	5350
432	DLLG21	092	177	51	12	230.38			3741	10	107020000	21300	17	8	1	6.8	1	.	.	.	.	.	.	.	0	1	7690
433	DLLG21	093	177	.	.	.			2930	10	107020000	21223	17	0	1	19.0	.	.	.	.	.	.	.	.	0	0	1410
434	DLLG21	093	177	17	.	230.61	091.90	176.05	2918	10	107020000	41301	19	0	1	82.9	1	.	.	.	.	.	3	.	0	0	1420
435	DLLG21	093	177	17	6	230.59	092.00	176.66	3427	10	107020000	21500	1	0	1	17.2	.	.	.	.	.	.	.	.	0	0	2960
436	DLLG21	093	177	17	6	230.65	092.03	176.80	3722	10	107020000	21304	23	6	1	21.0	.	.	.	.	.	.	3	.	0	0	3080
437	DLLG21	093	177	18	.	230.53			7066	10	107020000	41100	14	7	1	52.5	2	.	.	.	.	.	.	.	0	0	3470
438	DLLG21	093	177	.	.	230.17	092.56	176.71	7065	10	107020000	50160	1	0	1	33.0	.	.	.	.	.	.	3	.	0	0	3490
439	DLLG21	093	177	20	12	230.33			7061	10	107020000	42200	13	1	2	104.3	2	.	.	.	.	.	.	.	0	0	3760
440	DLLG21	093	177	.	12	.			6775	10	107020000	11000	17	8	1	51.2	2	.	.	.	.	.	.	.	0	0	4120
441	DLLG21	093	177	.	12	.			6775	10	107020000	42201	11	3	1	16.7	1	.	.	.	.	.	3	.	0	0	4140

OBS	SITE	NUNIT	BUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCOUNT	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
442	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107020000	42600	1	0	1	86.4	.	.	.	.	.	.	3	.	0	0	4730
443	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107020000	52002	14	0	1	69.8	1	.	.	.	.	.	1	.	0	0	4780
444	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107020000	21100	18	0	1	44.2	.	3	.	.	.	.	.	.	0	0	4800
445	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107020000	41100	13	12	1	249.5	.	.	.	.	.	.	3	.	0	0	4810
446	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107020000	42102	19	12	1	33.3	.	.	.	.	.	.	3	.	0	0	4820
447	DLLG21	093	177	23	.	230.03			6455	10	107020000	22000	12	0	1	80.2	1	.	.	.	.	.	1	.	0	0	5590
448	DLLG21	093	177	22	12	230.11	092.79	175.99	6429	10	107020000	21201	18	0	2	101.4	.	3	.	.	.	.	3	.	0	0	5950
449	DLLG21	093	177	22	12	230.11	092.79	175.99	6472	10	107020000	41101	13	19	1	217.9	2	.	.	.	.	.	1	.	0	0	6450
450	DLLG21	093	177	19	.	230.43			6272	10	107020000	41100	14	8	1	61.9	.	.	.	.	.	.	3	.	0	0	6860
451	DLLG21	093	177	19	.	230.43			6272	10	107020000	21300	18	0	2	90.9	.	.	.	.	.	.	3	.	0	0	6880
452	DLLG21	093	177	23	.	.			6432	10	107020000	21100	18	0	2	109.3	.	3	.	.	.	.	2	.	0	0	6990
453	DLLG21	093	177	21	12	230.19	092.88	176.48	6444	10	107020000	21100	18	0	2	104.0	.	.	.	.	.	.	3	.	0	0	7120
454	DLLG21	093	177	.	.	.			7063	10	107020000	21315	18	0	1	20.7	.	0	.	.	.	.	3	.	0	0	7500
455	DLLG21	093	177	18	.	230.53			7164	10	107020000	21312	1	0	1	36.3	.	.	.	.	.	.	.	.	0	0	7760
456	DLLG21	093	177	18	.	230.53			7164	10	107020000	21221	18	3	1	32.6	.	.	.	.	.	0	2	.	0	0	7770
457	DLLG21	093	177	4	.	.			1978	10	107020000	21223	11	3	1	34.5	.	.	.	.	.	.	.	.	0	0	7910
458	DLLG21	093	177	4	.	.			1978	10	107020000	22000	11	0	1	14.5	.	1	.	.	.	.	2	.	0	0	7970
459	DLLG21	093	177	18	.	230.54			1950	10	107020000	41200	11	0	1	87.2	2	1	.	.	.	.	3	.	0	0	8330
460	DLLG21	093	177	18	.	230.54			1950	10	107020000	41300	11	2	1	53.0	2	.	.	.	.	.	2	.	0	0	8340
461	DLLG21	093	177	23	12	230.00	092.40	176.74	6591	10	107020000	41300	11	0	1	111.1	2	.	.	.	.	.	.	.	0	0	8380
462	DLLG21	093	177	18	.	230.56	092.15	176.52	1955	10	107020000	51011	1	0	1	26.2	2	.	.	.	.	.	.	.	0	0	8390
463	DLLG21	093	177	18	.	230.56	092.15	176.52	1955	10	107020000	51013	1	0	1	26.5	2	.	.	.	.	.	.	.	0	0	8400
464	DLLG21	093	177	18	.	230.56	092.15	176.52	1955	10	107020000	51018	1	0	1	23.4	2	.	.	.	.	.	.	.	0	0	8410
465	DLLG21	093	177	18	12	230.55	092.02	176.83	3715	10	107020000	51011	1	0	1	25.7	1	.	.	.	.	.	.	.	0	0	8420
466	DLLG21	093	177	18	.	230.49	092.20	176.48	1956	10	107020000	22000	12	0	2	122.7	1	3	.	.	.	.	2	.	0	0	8440
467	DLLG21	093	177	15	.	230.80	092.45	176.78	3728	10	107020000	51006	1	0	1	16.7	.	.	.	.	.	.	.	.	0	0	8450
468	DLLG21	093	177	11	.	231.21	092.45	176.80	1357	10	107020000	51011	1	0	1	30.8	2	.	.	.	.	.	.	.	0	0	8470
469	DLLG21	093	177	17	6	230.63	092.23	176.79	3714	10	107020000	51025	1	0	1	32.3	2	.	.	.	.	.	.	.	0	0	8490
470	DLLG21	093	177	17	.	230.63	092.50	176.72	2917	10	107020000	51018	1	0	1	18.0	2	.	.	.	.	.	.	.	0	0	8510
471	DLLG21	093	177	18	.	230.55	092.24	176.07	1954	10	107020000	51025	1	0	1	29.1	2	.	.	.	.	.	.	.	0	0	8520
472	DLLG21	093	177	19	.	230.40	092.25	176.15	2207	10	107020000	51010	1	0	1	31.2	2	.	.	.	.	.	.	.	0	0	8530
473	DLLG21	093	177	19	.	230.40	092.25	176.15	2207	10	107020000	21310	18	3	1	26.7	.	.	.	.	.	.	2	.	0	0	8540
474	DLLG21	093	177	19	.	230.40	092.25	176.15	2206	10	107020000	50101	1	0	1	63.4	.	.	.	.	.	.	.	.	0	0	8750
475	DLLG21	093	177	17	.	230.65	092.80	176.24	2200	10	107020000	50101	1	0	1	56.8	.	.	.	.	.	.	1	.	0	0	8800
476	DLLG21	093	177	17	.	230.65	092.80	176.24	2200	10	107020000	50102	1	0	1	32.5	.	.	.	.	.	.	.	.	0	0	8810
477	DLLG21	093	177	22	12	230.11	092.79	175.99	6472	10	107020000	41301	1	0	1	190.0	2	.	.	.	.	.	1	.	0	0	8870
478	DLLG21	093	177	22	12	230.11	092.79	175.99	6472	10	107020000	42100	14	3	1	287.5	2	.	.	.	.	.	1	.	0	0	8880
479	DLLG21	093	177	22	12	230.11	092.79	175.99	6472	10	107020000	32073	1	0	1	287.7	1	.	.	.	.	.	3	.	0	0	8890
480	DLLG21	093	177	22	12	230.11	092.79	175.99	6472	10	107020000	21109	1	0	1	72.9	.	4	.	.	.	.	.	.	0	0	8900
481	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107020000	41100	14	2	1	151.2	2	.	.	.	.	1	0	.	0	0	9040
482	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107020000	42100	11	2	1	141.9	1	.	.	.	.	1	1	.	0	0	9050
483	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107020000	22000	12	0	2	143.8	1	.	.	.	.	.	1	.	0	0	9100
484	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107020000	22000	15	0	1	105.6	.	.	.	.	.	.	0	.	0	0	9140
485	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107020000	21221	18	0	1	65.3	.	3	.	.	.	.	2	.	0	0	9170
486	DLLG21	093	177	20	12	230.35	092.25	176.94	7115	10	107020000	32010	19	0	1	339.7	1	.	.	.	.	.	2	.	0	0	9180
487	DLLG21	093	177	16	6	230.71	092.20	176.80	3723	10	107020000	51012	1	0	1	34.4	2	.	.	.	.	.	.	.	0	0	9450
488	DLLG21	093	177	11	.	231.20	092.06	176.75	3725	10	107020000	51012	1	0	1	34.5	2	.	.	.	.	.	.	.	0	0	9460
489	DLLG21	093	177	17	.	.			2198	10	107020000	52011	1	0	1	14.3	2	.	.	.	.	.	.	.	0	0	9470
490	DLLG21	093	177	17	.	.			2198	10	107020000	41302	1	0	1	18.6	2	.	.	.	.	.	.	.	0	0	9490

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUAN	WEIGH	SIDE	FUSE	EUPT	BURN	JUVCOR	BRACK	BULTK	FLAKE	OTHER	REX	BONEUM
491	DLLG21	093	177	21	.	230.13			6566	10	107020000	31011	1	0	1	112.0	2	.	.	.	.	.	1	.	0	0	9520
492	DLLG21	093	177	18	.	230.53			7164	10	107020000	51012	1	0	1	28.2	2	.	.	.	.	.	.	.	0	1	40
493	DLLG21	093	177	17	6	230.63	092.12	176.74	3721	10	107020000	21500	1	0	1	9.1	.	3	.	.	.	.	.	.	0	1	410
494	DLLG21	093	177	.	.	.			7060	10	107020000	21500	1	0	1	5.0	.	.	.	.	.	.	.	.	0	1	430
495	DLLG21	093	177	.	.	.			7060	10	107020000	21500	24	0	1	4.3	.	.	.	.	.	.	.	.	0	1	440
496	DLLG21	093	177	.	.	.			1978	10	107020000	21204	18	9	1	49.1	.	2	.	.	.	.	.	.	0	1	3010
497	DLLG21	093	177	.	.	.	092.50	176.70	3726	10	107020000	21302	18	9	1	69.8	.	3	.	.	.	.	3	.	0	1	3240
498	DLLG21	093	177	15	6	230.86	092.45	176.78	3766	10	107020000	21302	18	9	1	60.5	.	3	.	.	.	.	3	.	0	1	3250
499	DLLG21	093	177	.	12	230.01	092.63	176.78	6589	10	107020000	41100	11	1	1	96.3	1	.	.	.	.	.	.	.	0	1	4300
500	DLLG21	093	177	12	.	.			6775	10	107020000	90000	10	.	1	0.8	1	.	.	.	.	.	.	.	0	1	5890
501	DLLG21	093	177	.	.	.			7060	10	107020000	51013	1	.	1	30.8	2	.	.	.	.	.	1	.	0	1	7420
502	DLLG21	093	177	.	.	.	.		7060	10	107020000	51011	1	.	1	34.5	2	.	.	.	.	.	1	.	0	1	7430
503	DLLG21	093	177	14	.	.			1503	10	107020000	22001	11	.	1	1.5	.	3	.	.	.	.	.	.	0	1	7670
504	DLLG21	094	174	38	18	231.03	093.84	173.42	3238	10	107020000	21223	19	0	1	34.9	.	.	.	.	.	.	.	.	0	0	2370
505	DLLG21	094	174	35	.	231.01	093.67	173.85	2812	10	107020000	22200	12	0	1	24.0	1	3	.	.	.	.	3	.	0	0	4420
506	DLLG21	094	174	39	.	230.97	093.93	173.38	3705	10	107020000	21500	1	0	1	11.2	.	3	.	.	.	.	.	.	0	0	4430
507	DLLG21	094	174	28	16	231.52	093.86	173.13	2434	10	107020000	51006	1	0	1	16.8	2	.	.	.	.	.	.	.	0	0	8460
508	DLLG21	094	174	40	18	230.93	093.35	173.88	3706	10	107020000	31014	19	0	1	254.6	2	.	.	.	.	.	3	.	0	0	8720
509	DLLG21	094	174	40	18	230.94	093.94	173.43	3704	10	107020000	21311	17	10	1	9.1	.	.	.	.	.	.	1	.	0	1	2800
510	DLLG21	094	174	39	18	230.96	093.87	173.27	3700	10	107020000	21400	21	6	1	12.2	.	.	.	.	.	.	3	.	0	1	2810
511	DLLG21	094	174	27	16	231.58	093.37	173.28	2425	10	107020000	21223	14	10	1	7.5	.	.	.	.	.	.	.	.	0	1	2820
512	DLLG21	094	174	34	18	.			6675	10	107020000	21200	17	.	1	5.2	1	.	.	.	.	.	.	.	0	1	4640
513	DLLG21	094	183	21	.	231.87	093.35	182.25	4299	10	107020000	21300	16	1	1	6.2	.	.	.	.	.	.	2	.	0	0	9280
514	DLLG21	096	174	31	.	231.40			7070	10	107020000	22000	11	0	1	25.0	.	.	.	.	.	.	.	.	0	0	8140
515	DLLG21	096	174	32	18	.			7072	10	107020000	21200	19	4	1	11.1	1	.	.	.	.	.	.	.	0	1	5280
516	DLLG21	096	174	32	18	.			7072	10	107020000	21510	10	10	1	1.8	1	.	.	.	.	.	.	.	0	1	5290
517	DLLG21	096	174	26	.	231.63			3752	10	107020000	21000	10	10	1	5.5	.	3	.	.	.	.	.	.	0	1	7650
518	DLLG21	061	192	32	16	231.31	060.31	191.73	2293	10	107020101	13155	25	0	2	35.4	.	.	.	.	.	.	.	.	0	0	8780
519	DLLG21	092	177	47	.	230.99	091.28	176.72	3586	10	107020101	42100	11	0	.	375.8	2	1	.	.	.	.	3	.	0	0	1640
520	DLLG21	092	177	46	12	230.60	091.07	176.94	2939	10	107020101	21300	1	0	1	185.7	.	.	.	.	.	.	2	.	0	0	3370
521	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107020101	41100	11	0	1	343.6	1	.	.	.	.	.	2	.	0	0	9030
522	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107020101	21223	14	0	1	23.1	.	.	.	.	.	.	.	.	0	0	9150
523	DLLG21	093	177	18	12	230.57	092.10	176.13	3720	10	107020101	41200	13	11	1	111.1	1	.	.	.	.	.	1	.	0	1	1560
524	DLLG21	093	177	.	12	.			6699	10	107020101	32010	16	5	1	67.4	2	3	.	.	1	.	.	.	0	1	6630
525	DLLG21	094	174	38	.	231.03	093.23	173.65	3237	10	107020101	21223	15	9	1	48.9	.	.	.	.	.	.	3	.	0	0	2380
526	DLLG21	094	174	39	.	230.45	093.91	173.49	3947	10	107020101	32010	1	.	1	225.8	1	.	.	.	.	.	.	.	0	1	2690
527	DLLG21	061	192	17	1	232.07			4149	10	107020201	21500	24	0	1	3.0	.	.	.	.	.	.	1	.	0	0	8110
528	DLLG21	091	177	43	.	230.77			7117	10	107020201	21200	18	1	1	56.6	.	.	.	.	.	.	.	.	0	0	5560
529	DLLG21	091	177	43	.	230.77			7117	10	107020201	21224	1	0	1	29.0	.	.	.	.	.	.	.	.	0	0	5670
530	DLLG21	092	177	48	12	231.51	091.63	176.36	3441	10	107020201	21409	18	9	1	59.9	2	.	.	.	.	.	2	.	0	0	3240
531	DLLG21	092	177	48	12	231.51	091.63	176.36	3441	10	107020201	21500	19	1	1	11.3	.	.	.	.	.	.	2	.	0	0	3250
532	DLLG21	092	177	47	.	230.56	091.68	175.72	2965	10	107020201	41506	1	0	1	341.6	2	1	.	.	.	.	3	.	0	0	7830
533	DLLG21	092	177	39	6	230.95	091.38	176.79	1878	10	107020201	22000	13	0	1	138.2	.	.	.	.	.	.	3	.	0	0	9390
534	DLLG21	092	177	36	15	231.10	091.24	176.26	1858	10	107020201	42200	15	11	1	594.0	.	1	.	.	.	.	2	.	0	1	2440
535	DLLG21	092	177	47	12	230.56	091.82	176.53	2972	10	107020201	52001	1	.	1	107.5	2	.	.	.	.	.	.	.	0	1	4110
536	DLLG21	092	177	47	12	230.56	091.00	176.28	2966	10	107020201	41100	14	4	1	204.8	1	.	.	.	.	.	3	.	0	1	4120
537	DLLG21	092	177	.	.	.			7067	10	107020201	52001	11	1	1	26.3	1	.	.	.	.	.	.	.	0	1	7300
538	DLLG21	093	174	31	.	231.40			7070	10	107020201	41300	13	2	1	22.8	.	.	.	.	.	.	2	.	0	0	8130
539	DLLG21	093	174	40	18	230.91	092.87	173.68	3684	10	107020201	21300	18	0	2	156.2	.	3	.	.	.	.	3	.	0	0	8690

OBS	SITE	NUNIT	BUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANBL	PORT	SBG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BREAK	BUTCH	FLAKE	OTHBR	REX	BONENUM
540	DLLG21	093	177	18	12	230.52	092.10	176.37	3711	10	107020201	42100	19	10	1	88.0	1	.	.	.	.	.	3	.	0	0	1940
541	DLLG21	093	177	12	.	231.08	092.40	176.30	1327	10	107020201	22000	12	0	1	73.8	1	.	.	1	.	.	.	.	0	0	4570
542	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107020201	21100	1	0	2	86.0	.	3	.	.	.	.	2	.	0	0	4710
543	DLLG21	093	177	22	12	230.11	092.79	175.99	6429	10	107020201	41100	12	1	1	973.2	1	1	.	.	.	.	3	.	0	0	5930
544	DLLG21	093	177	22	12	230.11	092.79	175.99	6429	10	107020201	21107	18	0	2	116.0	.	.	.	.	.	.	3	.	0	0	5940
545	DLLG21	093	177	23	.	230.03			6455	10	107020201	41100	12	0	1	799.8	2	.	.	.	.	.	2	.	0	0	6050
546	DLLG21	093	177	19	.	230.43			6272	10	107020201	21300	18	0	1	162.9	.	.	.	.	.	.	3	.	0	0	6870
547	DLLG21	093	177	18	12	230.53	092.05	176.30	3767	10	107020201	41200	12	1	1	205.2	1	.	.	.	.	.	2	.	0	0	8250
548	DLLG21	093	177	18	12	230.53	092.05	176.30	3767	10	107020201	41300	12	1	1	47.8	1	.	.	.	.	.	1	.	0	0	8260
549	DLLG21	093	177	18	.	230.55			1954	10	107020201	41506	1	0	1	405.0	1	1	.	.	.	.	3	.	0	0	8300
550	DLLG21	093	177	18	.	230.55			1954	10	107020201	52001	1	0	1	123.0	1	1	.	.	.	.	.	.	0	0	8310
551	DLLG21	093	177	17	6	230.64			3565	10	107020201	41200	14	0	2	261.8	2	3	.	.	.	.	.	.	0	0	8320
552	DLLG21	093	177	17	6	230.65	092.03	176.80	3722	10	107020201	21315	22	1	1	21.2	.	.	.	.	.	.	2	.	0	0	9000
553	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107020201	42100	14	0	1	162.1	2	.	.	.	.	.	2	.	0	0	9060
554	DLLG21	093	177	23	12	230.01	092.73	176.59	6055	10	107020201	11014	1	0	1	766.8	.	.	.	.	.	.	2	.	0	1	460
555	DLLG21	093	177	24	.	229.94	092.50	176.75	6056	10	107020201	11014	1	0	1	605.0	.	.	.	.	.	.	2	.	0	1	470
556	DLLG21	093	177	12	.	231.10			1329	10	107020201	42200	13	11	1	163.2	.	.	.	.	.	.	3	.	0	1	1550
557	DLLG21	094	174	35	18	231.00	093.68	173.89	2804	10	107020201	22200	12	0	1	22.3	.	3	.	.	.	.	2	.	0	0	4460
558	DLLG21	094	174	38	18	231.01	093.21	173.28	3241	10	107020201	31014	19	0	1	271.1	1	.	.	.	.	.	3	.	0	0	8710
559	DLLG21	093	177	11	.	231.18	092.43	176.16	1126	10	107020300	31010	12	0	1	31.0	2	.	.	.	.	.	1	.	0	1	8810
560	DLLG21	092	177	47	12	230.55	091.05	176.21	2977	10	107020301	31010	1	0	1	54.6	2	.	.	.	.	.	1	.	0	0	4520
561	DLLG21	092	177	47	12	230.55	091.05	176.21	2977	10	107020301	22000	12	0	1	8.9	2	3	.	.	.	.	1	.	0	0	4530
562	DLLG21	092	177	48	.	230.51	091.11	176.74	3532	10	107020301	22000	12	0	1	3.8	1	.	.	.	.	.	1	.	0	0	4670
563	DLLG21	093	177	.	12	.			6775	10	107020301	32010	1	0	1	23.0	2	.	.	.	.	.	1	.	0	0	4600
564	DLLG21	093	177	.	.	.			1978	10	107020301	42200	11	0	1	16.0	.	1	.	.	.	.	2	.	0	0	4630
565	DLLG21	093	177	48	.	230.52	092.27	176.25	3439	10	107020301	22000	1	0	1	8.9	2	3	.	.	.	.	.	.	0	0	4650
566	DLLG21	093	177	18	12	230.58	092.17	176.35	3713	10	107020301	21300	18	0	1	10.0	.	.	.	.	.	.	0	.	0	0	4680
567	DLLG21	093	177	18	12	230.58	092.17	176.35	3713	10	107020301	21311	18	1	3	2.2	.	.	.	.	.	.	0	.	0	0	4690
568	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107020301	52001	1	0	1	11.4	1	.	.	.	.	.	.	.	0	0	4740
569	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107020301	52002	1	0	1	15.0	1	.	.	.	.	.	.	.	0	0	4750
570	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107020301	42100	15	0	1	94.6	2	1	.	.	.	1	.	.	0	0	4760
571	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107020301	42200	12	0	1	60.2	2	1	.	.	.	.	.	.	0	0	4770
572	DLLG21	093	177	18	.	230.48			7164	10	107020301	42200	14	0	1	9.4	2	.	.	2	.	.	.	.	0	1	8760
573	DLLG21	093	177	22	12	230.11	092.79	174.83	6454	10	107020301	41100	12	0	1	52.1	2	.	.	.	.	1	1	.	0	1	8780
574	DLLG21	093	177	11	.	231.15	092.20	176.44	1200	10	107020400	21100	18	0	1	13.8	.	2	.	.	.	.	3	.	0	1	9170
575	DLLG21	061	189	23	2	.			7091	10	107020401	22000	13	10	1	4.8	2	.	.	.	.	.	.	.	0	1	2630
576	DLLG21	090	177	42	.	230.83			6461	10	107020401	22000	12	0	1	6.2	.	.	.	.	.	.	.	.	0	0	8280
577	DLLG21	090	177	42	.	230.83			6461	10	107020401	21312	1	0	2	2.5	.	.	.	.	.	.	.	.	0	0	8290
578	DLLG21	091	177	42	.	230.81	090.90	176.77	3734	10	107020401	41200	12	0	1	34.5	2	1	.	.	.	.	.	.	0	0	1930
579	DLLG21	091	177	42	.	230.83			3788	10	107020401	22000	13	0	1	5.5	.	.	.	.	.	.	.	.	0	0	7730
580	DLLG21	091	177	42	18	230.81	090.90	176.77	3734	10	107020401	41300	15	0	1	2.3	.	.	.	.	.	.	.	.	0	0	7980
581	DLLG21	092	177	50	12	230.43			3838	10	107020401	21221	18	0	1	5.0	.	3	.	.	.	.	2	.	0	0	8020
582	DLLG21	092	177	36	17	231.11	091.07	176.50	1857	10	107020401	22000	12	0	1	5.0	.	1	.	.	.	.	1	.	0	0	8650
583	DLLG21	092	177	49	12	.			7116	10	107020401	21223	1	0	1	2.8	.	.	.	.	.	.	1	.	0	0	8670
584	DLLG21	092	177	48	12	230.50	091.46	176.65	3538	10	107020401	22000	1	0	1	11.5	2	2	.	.	.	.	.	.	0	0	8700
585	DLLG21	092	177	48	.	230.51	091.18	176.60	3550	10	107020401	22000	12	13	1	3.2	.	3	.	.	.	.	1	.	0	1	7240
586	DLLG21	092	177	.	.	.			7067	10	107020401	22000	19	13	1	6.8	.	.	.	.	.	.	.	.	0	1	7310
587	DLLG21	092	177	32	15	231.33			1757	10	107020401	21200	18	9	1	3.8	1	.	.	.	.	.	.	.	0	1	7460
588	DLLG21	093	174	39	18	230.97	092.98	173.27	3687	10	107020401	22000	12	13	1	6.0	.	3	.	.	.	.	.	.	0	1	7290

OBS	SITE	NUNIT	BUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BREAK	BUTCH	FLAKE	OTHER	RBX	BONENUM
589	DLLG21	093	177	18	12	230.54	092.11	176.35	3758	10	107020401	21300	18	0	2	31.0	.	3	.	.	.	.	3	.	0	0	4370
590	DLLG21	093	177	17	.	230.63	092.50	176.72	2917	10	107020401	22100	12	0	1	9.1	2	.	.	.	.	.	1	.	0	0	4410
591	DLLG21	093	177	17	6	230.66	092.53	176.79	3724	10	107020401	22000	12	0	1	12.3	2	1	.	.	.	.	1	.	0	0	4470
592	DLLG21	093	177	16	6	230.73	092.52	176.80	3716	10	107020401	32072	1	0	1	34.0	2	.	.	.	.	.	3	.	0	0	4490
593	DLLG21	093	177	19	.	.			2202	10	107020401	21410	19	0	1	12.9	.	.	.	.	.	.	2	.	0	0	4590
594	DLLG21	093	177	.	.	.			7063	10	107020401	21200	1	0	1	9.5	.	3	.	.	.	.	1	.	0	0	7490
595	DLLG21	093	177	21	.	230.13			6565	10	107020401	31010	1	0	1	72.0	1	.	.	.	.	.	.	.	0	0	7810
596	DLLG21	093	177	23	.	.			6432	10	107020401	21200	1	0	1	10.9	.	3	.	.	.	.	2	.	0	0	8050
597	DLLG21	093	177	15	6	230.86	092.45	176.78	3766	10	107020401	22000	12	0	1	9.2	2	.	.	.	.	.	1	.	0	0	8590
598	DLLG21	093	177	23	12	230.03			6455	10	107020401	32076	1	0	1	41.7	1	.	.	.	.	.	3	.	0	0	8600
599	DLLG21	093	177	12	12	.			6775	10	107020401	22000	1	0	1	6.0	.	.	.	.	.	.	.	.	0	0	8630
600	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107020401	13201	1	0	1	29.1	.	.	.	.	.	.	1	.	0	0	9120
601	DLLG21	093	177	.	12	.			6699	10	107020401	21223	10	10	1	3.5	.	.	.	.	.	.	.	.	0	1	6620
602	DLLG21	093	177	22	12	230.15	092.76	176.65	6439	10	107020401	21200	10	10	1	9.1	.	2	.	.	.	.	1	.	0	1	6720
603	DLLG21	093	177	19	.	230.33			2203	10	107020401	22000	12	13	1	6.6	.	.	.	.	.	.	1	.	0	1	7340
604	DLLG21	093	177	.	.	.			7060	10	107020401	21300	17	9	1	2.1	.	.	.	.	.	.	3	.	0	1	7410
605	DLLG21	096	174	32	.	231.32	095.56	173.53	7118	10	107020401	22000	12	0	1	6.9	1	3	.	.	.	.	1	.	0	0	4400
606	DLLG21	096	174	32	18	.			7072	10	107020401	22000	12	.	2	4.8	.	.	.	.	.	.	.	.	0	1	6760
607	DLLG21	061	188	20	1	231.93			4383	10	107030101	51000	1	.	1	2.8	1	.	.	.	.	.	.	.	0	1	2620
608	DLLG21	091	176	43	.	230.76			6475	10	107030101	31013	19	.	1	11.8	2	.	.	.	.	.	.	.	0	1	7210
609	DLLG21	091	177	42	.	230.83			3788	10	107030101	21200	17	10	1	11.8	.	3	.	.	.	.	.	.	0	1	2590
610	DLLG21	091	177	41	.	230.87	090.85	176.80	3807	10	107030101	42200	13	10	1	47.2	2	.	.	.	.	.	.	.	0	1	2610
611	DLLG21	091	177	43	.	230.77	090.36	176.81	6491	10	107030101	42200	12	13	1	0.6	1	3	.	.	.	.	3	.	0	1	6260
612	DLLG21	092	177	49	12	230.46	091.05	176.27	5489	10	107030101	13155	17	0	1	2.9	1	1	.	.	.	.	.	.	0	0	1980
613	DLLG21	092	177	49	12	230.46	091.05	176.27	5489	10	107030101	11004	17	10	1	0.6	1	.	.	.	.	.	.	.	0	0	1990
614	DLLG21	092	177	41	6	230.85	091.61	176.67	1903	10	107030101	42201	11	0	1	11.3	1	3	.	.	.	.	.	.	0	0	2040
615	DLLG21	092	177	.	.	230.47			7068	10	107030101	12001	1	0	1	9.2	1	.	2	.	1	.	.	.	0	0	3500
616	DLLG21	092	177	43	6	230.75	091.41	176.85	2164	10	107030101	21500	19	0	1	2.9	.	3	.	.	.	.	2	.	0	0	4450
617	DLLG21	092	177	45	6	230.65	091.05	176.66	2768	10	107030101	21100	1	0	2	13.0	.	3	.	.	.	.	2	.	0	0	4610
618	DLLG21	092	177	50	12	230.43			3838	10	107030101	22000	12	0	1	8.5	2	.	.	.	.	.	1	.	0	0	8010
619	DLLG21	092	177	40	.	230.90	091.80	176.75	1888	10	107030101	32010	13	0	1	36.7	1	.	.	.	.	.	.	.	0	0	8760
620	DLLG21	092	177	45	6	230.69	091.13	176.79	2760	10	107030101	21221	1	0	1	8.1	.	3	.	.	.	.	2	.	0	0	9410
621	DLLG21	092	177	45	6	230.66	091.10	176.58	2763	10	107030101	41200	15	10	1	9.6	.	3	.	2	1	.	.	.	0	1	3930
622	DLLG21	092	177	44	6	230.70	091.04	176.36	2574	10	107030101	50100	1	.	1	1.9	.	4	.	1	.	.	0	.	0	1	6780
623	DLLG21	092	177	50	.	230.41	091.01	176.46	7132	10	107030101	13030	1	.	1	0.4	.	.	.	.	.	.	.	.	0	1	7370
624	DLLG21	092	177	46	12	230.64	091.00	176.59	2936	10	107030101	21100	19	9	1	4.7	1	3	.	.	.	.	.	.	0	1	7640
625	DLLG21	092	177	41	6	230.85	091.61	176.67	1903	10	107030101	21100	23	3	1	4.5	2	3	.	.	.	.	.	.	0	1	7660
626	DLLG21	092	177	51	12	230.38			3741	10	107030101	22000	12	13	1	5.5	.	3	.	.	.	.	1	.	0	1	7680
627	DLLG21	092	177	51	12	230.38			3741	10	107030101	21200	19	1	1	1.7	2	.	.	.	.	.	.	.	0	1	7700
628	DLLG21	093	177	17	.	230.61	091.90	176.05	2918	10	107030101	41301	19	0	1	25.0	2	.	.	1	.	.	1	.	0	0	1430
629	DLLG21	093	177	16	.	230.68	092.00	175.90	2906	10	107030101	42200	13	0	1	24.6	1	.	.	.	.	.	3	.	0	0	1920
630	DLLG21	093	177	13	.	230.94	092.64	176.66	1501	10	107030101	31011	14	0	1	18.8	.	.	.	.	.	.	.	.	0	0	4380
631	DLLG21	093	177	.	12	.			6699	10	107030101	52001	1	0	1	19.1	1	3	.	.	.	.	.	.	0	0	4500
632	DLLG21	093	177	.	.	.			7063	10	107030101	22000	1	0	1	4.9	2	.	.	.	.	.	1	.	0	0	4540
633	DLLG21	093	177	.	.	.			7063	10	107030101	22000	12	0	1	7.1	1	2	.	.	.	.	.	.	0	0	4550
634	DLLG21	093	177	.	.	.			7063	10	107030101	42300	13	0	1	9.8	2	.	.	.	.	.	.	.	0	0	4560
635	DLLG21	093	177	23	.	230.00	092.40	176.74	6591	10	107030101	31010	1	0	1	136.9	1	.	.	.	.	.	1	.	0	0	4580
636	DLLG21	093	177	48	.	230.52	092.27	176.25	3439	10	107030101	21200	18	0	1	7.0	.	.	.	.	.	.	.	.	0	0	4660
637	DLLG21	093	177	23	.	.			6432	10	107030101	42200	12	0	1	65.4	1	3	.	.	.	.	.	1	0	0	8030

OBS	SITE	UNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BUORN	JUVCOUNT	BRACK	BUTCH	FLAKE	OTHER	REX	BONEUM
638	DLLG21	093	177	23	.	.			6432	10	107030101	42100	14	0	1	37.1	1	2	.	.	.	3	.	0	0	8040
639	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107030101	42200	15	0	1	66.4	1	1	.	.	.	1	.	0	0	9020
640	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107030101	52001	11	0	1	17.2	1	.	.	.	.	.	.	0	0	9110
641	DLLG21	093	177	23	12	230.03			6455	10	107030101	32020	1	0	1	42.4	2	.	.	.	.	3	.	0	0	9530
642	DLLG21	093	177	21	.	230.23			6566	10	107030101	42100	11	.	1	72.1	1	.	.	.	.	.	.	0	1	4230
643	DLLG21	093	177	14	.	230.91	092.54	176.44	1500	10	107030101	41504	1	.	1	10.2	1	2	.	.	.	0	.	0	1	6280
644	DLLG21	093	177	22	12	230.15	092.76	176.65	6439	10	107030101	21300	1	.	1	27.1	.	2	.	.	.	1	.	0	1	6700
645	DLLG21	093	177	22	12	230.15	092.76	176.65	6439	10	107030101	21300	19	.	1	24.2	.	4	.	.	.	1	.	0	1	6710
646	DLLG21	094	174	32	18	231.31	093.79	173.73	6462	10	107030101	31010	1	0	1	40.6	2	.	.	.	.	1	.	0	0	8350
647	DLLG21	094	174	34	18	.			2613	10	107030101	52001	11	.	1	3.0	2	3	.	.	.	.	.	0	1	8580
648	DLLG21	094	174	36	8	231.12	093.88	173.90	2807	10	107030101	13010	25	0	1	1.1	.	.	.	.	.	.	.	0	1	8650
649	DLLG21	094	175	34	18	231.23	093.01	174.14	3754	10	107030101	42100	14	0	1	15.7	2	3	.	.	.	.	.	0	0	3150
650	DLLG21	094	175	34	.	231.23	093.78	174.10	3755	10	107030101	42100	1	0	1	58.7	2	3	.	.	.	1	.	0	0	3160
651	DLLG21	094	175	34	.	.			6613	10	107030101	42101	11	2	1	4.0	1	3	.	.	.	.	.	0	1	4620
652	DLLG21	096	174	31	.	231.40			7070	10	107030101	22000	12	0	1	5.2	2	.	.	.	.	1	.	0	0	8150
653	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	107040101	42200	15	0	1	62.4	1	.	.	.	.	1	1	0	0	9080
654	DLLG21	061	192	17	1	232.07			4151	10	108010101	22000	19	10	1	1.1	.	.	.	.	.	.	.	0	0	30
655	DLLG21	092	177	42	6	230.83	091.54	176.86	2342	10	108010101	42100	19	10	1	148.7	1	.	.	.	.	1	2	0	0	1950
656	DLLG21	061	188	16	1	232.13			4158	10	109000000	22000	13	10	1	1.1	.	.	.	.	.	3	.	0	0	540
657	DLLG21	061	188	19	1	231.97			4208	10	109000000	22000	13	10	1	17.2	.	.	.	.	.	3	.	0	0	560
658	DLLG21	061	188	20	1	231.93			4380	10	109000000	22000	13	2	1	7.5	.	.	.	.	.	3	.	0	0	580
659	DLLG21	061	188	19	1	231.97			4399	10	109000000	21003	18	0	1	4.0	.	.	.	.	.	3	.	0	0	990
660	DLLG21	061	189	28	3	231.50	060.40	187.11	4816	10	109000000	40000	13	2	2	17.0	.	.	.	.	.	.	.	0	0	590
661	DLLG21	061	192	24	2	231.73			5032	10	109000000	90000	10	10	1	1.9	.	.	.	.	.	.	.	0	0	100
662	DLLG21	061	192	27	.	231.58			5051	10	109000000	40000	10	10	1	7.0	.	.	.	.	.	.	.	0	1	510
663	DLLG21	074	187	29	.	231.46	073.48	186.26	3745	10	109000000	50000	10	10	1	5.1	.	.	.	.	.	.	.	0	1	4070
664	DLLG21	075	184	25	3	231.68			3633	10	109000000	90000	10	10	1	2.0	.	.	.	.	.	.	.	0	1	1950
665	DLLG21	078	194	28	16	231.50	077.45	193.50	2322	10	109000000	90000	10	10	.	12.3	.	.	.	.	.	.	.	0	1	820
666	DLLG21	078	194	27	16	231.58			5074	10	109000000	90000	11	10	1	12.5	.	.	.	.	.	.	.	0	1	850
667	DLLG21	078	196	26	.	231.63			5068	10	109000000	90000	10	10	1	6.0	.	.	.	.	.	.	.	0	1	1090
668	DLLG21	084	185	.	.	.			6584	10	109000000	40000	10	10	1	12.1	.	.	.	.	.	1	.	0	1	4310
669	DLLG21	085	192	27	.	231.57			6629	10	109000000	40000	10	10	5	26.5	.	.	.	.	.	.	.	0	1	4520
670	DLLG21	086	194	26	.	231.63			2220	10	109000000	90000	10	10	1	8.6	.	.	.	.	.	.	.	0	0	9200
671	DLLG21	086	194	27	.	231.58			2225	10	109000000	90000	13	10	1	7.1	.	.	.	.	.	.	.	0	1	880
672	DLLG21	086	194	17	.	232.07			4274	10	109000000	22000	10	10	1	3.1	.	.	.	.	.	.	.	0	1	990
673	DLLG21	090	177	34	15	231.23			6717	10	109000000	31011	10	10	1	5.5	.	.	.	.	.	.	.	0	0	4280
674	DLLG21	090	177	42	.	230.83			6461	10	109000000	22000	19	0	1	21.1	.	.	.	.	.	3	.	0	0	4960
675	DLLG21	090	177	42	.	230.83			6461	10	109000000	40000	10	10	1	6.0	.	.	.	.	.	1	.	0	0	4970
676	DLLG21	090	177	42	.	230.83			6461	10	109000000	40000	10	10	1	37.1	.	.	.	.	.	1	.	0	0	4980
677	DLLG21	090	177	42	.	230.83			6461	10	109000000	40000	10	10	1	17.2	.	.	.	.	.	1	.	0	0	5020
678	DLLG21	090	177	40	.	231.01	089.50	175.82	6494	10	109000000	22000	13	10	1	62.1	.	.	.	.	.	1	.	0	0	6910
679	DLLG21	090	177	15	.	231.23			5451	10	109000000	21400	18	2	1	45.8	.	.	.	.	.	2	.	0	0	9400
680	DLLG21	090	177	29	.	231.48			3981	10	109000000	90000	10	10	1	9.8	.	.	.	.	.	.	.	0	1	1720
681	DLLG21	090	177	34	15	231.23			5451	10	109000000	21200	17	10	1	5.1	.	.	.	.	.	.	.	0	1	1750
682	DLLG21	090	177	33	15	231.28			3950	10	109000000	90000	10	10	2	3.1	.	.	.	.	.	.	.	0	1	1780
683	DLLG21	090	177	37	.	231.18	088.92	176.30	6581	10	109000000	80000	10	10	1	3.2	.	.	.	.	.	.	.	0	1	4470
684	DLLG21	090	191	24	16	.			6261	10	109000000	90000	10	10	2	6.8	.	.	.	.	.	.	.	0	1	5300
685	DLLG21	090	191	24	16	.			6261	10	109000000	40000	13	10	1	22.3	.	.	.	.	.	.	.	0	1	5310
686	DLLG21	090	191	24	16	.			6261	10	109000000	31010	19	3	1	14.7	.	.	.	.	.	.	.	0	1	5320

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCOR	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
687	DLLG21	091	176	41	.	230.87			3787	10	109000000	21507	10	10	1	6.0	.	.	.	.	.	.	.	.	0	0	490
688	DLLG21	091	176	41	.	230.87			3787	10	109000000	90000	10	10	1	2.1	.	.	.	.	.	.	.	.	0	0	500
689	DLLG21	091	176	39	.	230.97			3805	10	109000000	22000	19	0	1	46.9	1	.	.	.	.	.	3	.	0	0	1650
690	DLLG21	091	176	39	.	230.98			3805	10	109000000	11000	10	10	1	12.9	.	.	.	.	.	.	.	.	0	1	150
691	DLLG21	091	176	33	.	231.28	090.80	175.85	5839	10	109000000	22000	13	10	4	57.0	.	.	.	.	.	.	.	.	0	1	2180
692	DLLG21	091	176	42	.	230.83	090.20	175.80	3736	10	109000000	40000	13	10	1	63.1	.	.	.	.	.	.	1	.	0	1	2190
693	DLLG21	091	176	41	.	230.87			3787	10	109000000	90000	10	10	1	2.2	.	.	.	.	.	.	.	.	0	1	5990
694	DLLG21	091	177	36	.	231.12	090.75	176.60	3490	10	109000000	21000	10	10	1	23.0	.	.	.	.	.	.	.	.	0	0	1620
695	DLLG21	091	177	42	.	230.83			3788	10	109000000	22000	11	0	1	16.1	1	3	.	.	.	.	3	.	0	0	1700
696	DLLG21	091	177	42	.	230.83			3788	10	109000000	22000	19	0	1	51.1	.	.	.	.	.	.	.	.	0	0	1740
697	DLLG21	091	177	42	.	230.83			3788	10	109000000	22000	19	0	1	91.8	.	.	.	.	.	.	1	.	0	0	1750
698	DLLG21	091	177	42	.	230.83			3788	10	109000000	22000	19	0	1	44.3	.	.	.	.	.	.	3	.	0	0	1760
699	DLLG21	091	177	42	.	230.83			3788	10	109000000	22000	14	0	1	10.9	.	.	.	.	.	.	.	.	0	0	1770
700	DLLG21	091	177	42	.	230.83			3788	10	109000000	22000	19	0	1	40.6	.	.	.	1	.	.	3	.	0	0	1780
701	DLLG21	091	177	42	.	230.83			3788	10	109000000	22000	14	0	1	27.9	.	.	.	.	.	.	1	.	0	0	1790
702	DLLG21	091	177	42	.	230.83			3788	10	109000000	21312	1	0	1	43.1	.	.	.	.	.	.	.	.	0	0	1800
703	DLLG21	091	177	42	.	230.83			6010	10	109000000	22000	19	0	1	63.0	.	.	.	.	.	.	2	.	0	0	4040
704	DLLG21	091	177	44	.	230.73			6459	10	109000000	22000	19	0	1	101.1	.	.	.	1	.	.	1	.	0	0	4920
705	DLLG21	091	177	44	.	230.73			6459	10	109000000	40000	10	10	1	29.9	.	.	.	1	.	.	2	.	0	0	4930
706	DLLG21	091	177	44	.	230.73			6459	10	109000000	21002	10	0	1	8.5	.	.	.	.	.	.	1	.	0	0	4940
707	DLLG21	091	177	43	.	230.77			7117	10	109000000	22000	19	0	1	83.0	.	.	.	.	.	.	1	.	0	0	5500
708	DLLG21	091	177	43	.	230.77			7117	10	109000000	21002	20	10	2	7.8	.	3	.	.	.	.	3	.	0	0	5520
709	DLLG21	091	177	43	.	230.77			7117	10	109000000	21002	19	0	4	25.3	.	.	.	.	.	.	3	.	0	0	5540
710	DLLG21	091	177	43	.	230.77			7117	10	109000000	40000	10	10	1	7.5	.	.	.	.	.	.	.	.	0	0	5550
711	DLLG21	091	177	43	.	230.77			7117	10	109000000	22000	11	1	1	5.9	.	.	.	.	.	.	.	.	0	0	5680
712	DLLG21	091	177	43	.	230.77			7117	10	109000000	21505	1	0	1	10.8	.	.	.	.	.	.	.	.	0	0	5690
713	DLLG21	091	177	43	.	230.77			7117	10	109000000	90000	10	10	1	8.1	.	.	.	.	.	.	3	.	0	0	5700
714	DLLG21	091	177	43	.	230.77			7117	10	109000000	21002	10	10	1	2.9	.	.	.	.	.	.	2	.	0	0	5710
715	DLLG21	091	177	43	.	231.75	090.30	176.65	6458	10	109000000	21223	15	0	1	27.6	.	.	.	.	.	.	.	.	0	0	6020
716	DLLG21	091	177	43	.	231.75	090.20	176.48	6471	10	109000000	22000	19	0	1	100.3	.	.	.	1	.	.	2	.	0	0	6400
717	DLLG21	091	177	42	.	230.83			3788	10	109000000	40500	10	10	1	11.3	.	.	.	.	.	.	2	.	0	0	8560
718	DLLG21	091	177	41	18	230.86	090.70	176.70	3793	10	109000000	22000	12	2	1	34.2	.	.	.	.	.	.	1	.	0	0	8680
719	DLLG21	091	177	33	4	231.28			5838	10	109000000	11000	10	10	1	5.8	.	.	.	.	.	.	.	.	0	1	140
720	DLLG21	091	177	37	.	231.07	090.15	176.84	3790	10	109000000	22000	10	10	2	49.8	.	.	.	.	.	.	.	.	0	1	2150
721	DLLG21	091	177	37	.	231.06	090.45	176.60	3731	10	109000000	40000	10	10	1	1.7	.	.	.	.	.	.	.	.	0	1	2160
722	DLLG21	091	177	35	.	231.16	090.35	176.84	3472	10	109000000	40000	10	10	1	26.0	.	.	.	.	.	.	3	.	0	1	2230
723	DLLG21	091	177	34	.	231.22	090.45	176.15	5837	10	109000000	40000	13	11	1	56.8	.	.	.	.	.	.	3	.	0	1	2250
724	DLLG21	091	177	34	.	231.23			3468	10	109000000	22000	10	10	1	14.0	.	.	.	.	.	.	3	.	0	1	2260
725	DLLG21	091	177	34	.	231.23			3468	10	109000000	22000	10	10	1	4.8	.	.	.	.	.	.	.	.	0	1	2290
726	DLLG21	091	177	36	.	231.11			3492	10	109000000	22000	10	10	2	20.1	.	.	.	.	.	.	.	.	0	1	2330
727	DLLG21	091	177	36	.	231.11			3492	10	109000000	22000	10	10	1	19.0	.	.	.	.	.	.	0	.	0	1	2340
728	DLLG21	091	177	42	.	230.83			3788	10	109000000	22300	10	10	1	16.2	.	.	.	.	.	.	.	.	0	1	2600
729	DLLG21	092	177	47	12	230.58	091.08	175.23	2980	10	109000000	40000	10	10	1	20.0	.	.	.	.	.	.	.	.	0	0	1500
730	DLLG21	092	177	29	3	231.48	091.32	176.87	1651	10	109000000	42100	11	10	1	14.1	.	.	.	.	.	.	3	.	0	0	2050
731	DLLG21	092	177	43	12	230.76	091.05	175.61	3829	10	109000000	22000	19	0	1	71.9	.	.	.	.	.	.	3	.	0	0	2080
732	DLLG21	092	177	38	5	231.03	091.10	175.58	3836	10	109000000	22000	19	0	1	48.0	.	.	.	.	.	.	2	.	0	0	2090
733	DLLG21	092	177	49	12	230.45	091.90	175.84	3739	10	109000000	40000	19	10	3	80.4	.	.	.	.	.	.	.	.	0	0	2120
734	DLLG21	092	177	39	5	230.99	091.90	176.59	1877	10	109000000	90000	10	10	1	16.9	.	.	.	.	.	.	.	.	0	0	2130
735	DLLG21	092	177	34	.	.			1814	10	109000000	90000	10	10	1	5.6	.	.	.	1	.	.	.	.	0	0	2140

OBS	SITE	UNIT	UNIT	LEL	STRAT	DD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	JUVBURN	JUVCORT	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
736	DLLG21	092	177	35	17	231.15	091.82	176.28	1837	10	109000000	21223	19	10	1	14.9	.	.	.	.	.	.	.	.	0	0	2190
737	DLLG21	092	177	35	17	231.15	091.94	176.03	1838	10	109000000	22000	19	0	1	44.4	.	.	.	.	.	3	.	0	0	0	2200
738	DLLG21	092	177	48	12	230.51	091.18	176.60	3550	10	109000000	22000	19	10	1	21.0	.	.	.	.	.	3	.	0	0	0	3100
739	DLLG21	092	177	48	12	230.50	091.87	176.40	3547	10	109000000	40000	10	10	1	28.1	.	.	.	.	.	3	.	0	0	0	3180
740	DLLG21	092	177	48	12	230.51	091.73	175.91	3540	10	109000000	22000	19	10	1	17.5	.	.	.	.	.	.	.	0	0	0	3200
741	DLLG21	092	177	48	12	230.50	091.05	176.80	3537	10	109000000	22000	19	0	1	36.4	.	.	.	.	.	3	.	0	0	0	3270
742	DLLG21	092	177	48	12	230.51	091.09	176.36	3445	10	109000000	80000	10	10	1	12.0	.	.	.	.	.	0	.	0	0	0	3300
743	DLLG21	092	177	48	12	230.51	091.09	176.36	3445	10	109000000	22000	19	0	1	9.0	.	.	.	.	.	3	.	0	0	0	3320
744	DLLG21	092	177	46	12	230.62	091.12	176.87	2931	10	109000000	22000	19	0	1	7.7	.	.	.	.	.	.	.	0	0	0	3340
745	DLLG21	092	177	46	6	230.62	091.80	176.44	2934	10	109000000	22000	14	0	1	30.5	.	.	.	.	.	2	.	0	0	0	3390
746	DLLG21	092	177	46	12	230.63	091.26	176.63	2940	10	109000000	80000	1	0	1	17.6	.	.	.	.	.	.	.	0	0	0	3420
747	DLLG21	092	177	.	.	.			7067	10	109000000	22000	19	0	1	41.9	.	.	.	.	.	1	.	0	0	0	3520
748	DLLG21	092	177	.	.	.			7067	10	109000000	22000	19	0	1	31.0	.	.	.	.	.	1	.	0	0	0	3530
749	DLLG21	092	177	12	.	.			6755	10	109000000	21500	1	0	1	6.8	.	2	.	.	.	.	.	0	0	0	7860
750	DLLG21	092	177	46	6	230.61	091.82	176.76	2942	10	109000000	22000	12	0	1	23.4	.	.	.	.	.	1	1	.	0	0	9310
751	DLLG21	092	177	48	12	230.52	091.27	176.25	3439	10	109000000	22000	12	0	1	55.4	.	.	.	.	.	1	0	.	0	0	9320
752	DLLG21	092	177	48	12	230.52	091.27	176.25	3439	10	109000000	23000	10	10	2	20.3	.	.	.	.	.	2	.	0	0	0	9330
753	DLLG21	092	177	49	12	230.45	091.91	176.65	3839	10	109000000	22000	19	0	2	110.0	.	.	.	.	.	2	.	0	0	0	9350
754	DLLG21	092	177	34	.	231.22	091.69	175.67	1816	10	109000000	90000	10	10	1	15.4	.	.	.	.	.	3	.	0	1		60
755	DLLG21	092	177	48	12	230.50	091.21	176.80	3444	10	109000000	80001	10	10	2	21.6	.	.	.	.	.	.	.	0	1		160
756	DLLG21	092	177	48	12	230.50	091.21	176.80	3444	10	109000000	41300	10	10	1	8.4	.	.	.	.	.	2	.	0	1		170
757	DLLG21	092	177	48	12	230.50	091.05	176.82	3535	10	109000000	80001	10	10	1	6.9	.	.	.	.	.	.	.	0	1		180
758	DLLG21	092	177	.	.	.			6755	10	109000000	90000	10	10	1	9.0	.	.	.	.	.	.	.	0	1		210
759	DLLG21	092	177	49	12	230.47			7116	10	109000000	21400	16	1	1	17.5	.	.	.	.	.	2	.	0	1		230
760	DLLG21	092	177	49	12	230.47			7116	10	109000000	90000	24	0	1	10.1	.	.	.	.	.	.	.	0	1		240
761	DLLG21	092	177	45	12	230.65	091.37	176.75	2764	10	109000000	90000	10	10	1	14.4	.	.	.	.	.	2	.	0	1		320
762	DLLG21	092	177	46	7	230.60	091.88	176.71	2937	10	109000000	22200	19	.	1	3.5	.	.	.	.	.	1	.	0	1		740
763	DLLG21	092	177	44	6	230.74	091.90	176.89	2583	10	109000000	22000	10	10	1	36.3	.	.	.	.	.	.	.	0	1		2080
764	DLLG21	092	177	44	6	230.74	091.90	176.89	2583	10	109000000	80000	10	10	1	0.8	.	.	.	.	.	.	.	0	1		2090
765	DLLG21	092	177	44	6	230.74	091.90	176.89	2583	10	109000000	40000	10	10	4	33.3	.	.	.	.	.	.	.	0	1		2100
766	DLLG21	092	177	44	6	230.71	091.30	176.76	2185	10	109000000	22000	13	10	1	49.1	.	.	.	.	.	1	.	0	1		2170
767	DLLG21	092	177	45	6	230.67	091.82	176.82	2758	10	109000000	90000	10	10	7	18.1	.	.	.	2	.	.	.	0	1		2200
768	DLLG21	092	177	45	6	230.67	091.82	176.82	2758	10	109000000	31010	10	10	1	19.0	.	.	.	.	.	.	.	0	1		2210
769	DLLG21	092	177	45	6	230.67	091.82	176.82	2758	10	109000000	90000	10	10	1	6.1	.	.	.	.	.	.	.	0	1		2220
770	DLLG21	092	177	43	6	230.75			2572	10	109000000	80000	10	10	1	27.0	.	.	.	.	.	.	.	0	1		2320
771	DLLG21	092	177	45	6	230.67	091.67	176.73	2766	10	109000000	40000	13	10	1	23.8	.	.	.	.	.	3	.	0	1		2350
772	DLLG21	092	177	45	6	230.67	091.67	176.73	2766	10	109000000	22000	10	10	1	9.0	.	.	.	.	.	.	.	0	1		2360
773	DLLG21	092	177	44	.	.			2187	10	109000000	40000	10	10	1	0.2	.	.	.	.	.	.	.	0	1		2410
774	DLLG21	092	177	44	6	230.73	091.43	176.75	2188	10	109000000	90000	10	10	1	20.1	.	.	.	.	.	1	.	0	1		2430
775	DLLG21	092	177	43	6	230.77	091.80	175.65	2163	10	109000000	80000	10	10	1	7.8	.	.	.	.	.	.	.	0	1		3790
776	DLLG21	092	177	32	3	231.33			1757	10	109000000	90000	10	10	4	17.8	.	.	.	.	.	.	.	0	1		3800
777	DLLG21	092	177	32	3	231.33			1757	10	109000000	90000	10	10	1	4.1	.	.	.	1	.	.	.	0	1		3810
778	DLLG21	092	177	41	6	230.88	091.76	176.86	2564	10	109000000	80000	10	10	1	2.5	.	.	.	.	.	.	.	0	1		3830
779	DLLG21	092	177	48	12	230.51	091.16	176.53	3443	10	109000000	22000	19	10	1	54.0	0	.	.	.	.	0	.	0	1		3840
780	DLLG21	092	177	49	12	230.45	091.25	176.23	3831	10	109000000	22000	19	10	1	55.0	0	.	.	.	.	3	.	0	1		3850
781	DLLG21	092	177	43	6	230.75	091.00	176.89	2165	10	109000000	22000	19	10	1	21.8	.	.	.	.	.	3	.	0	1		3860
782	DLLG21	092	177	47	12	230.55	091.07	176.90	2981	10	109000000	22000	19	10	1	3.3	.	.	.	.	.	1	.	0	1		3870
783	DLLG21	092	177	50	.	230.43			3838	10	109000000	22000	11	10	1	39.1	2	3	.	.	.	1	.	0	1		3880
784	DLLG21	092	177	50	.	230.43			3838	10	109000000	40000	10	10	3	15.2	.	.	.	.	.	.	.	0	1		3890

OBS	SITE	NUNIT	BUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
785	DLLG21	092	177	45	6	230.66	091.10	176.58	2763	10	109000000	40000	10	10	1	3.2	.	.	.	2	.	.	.	.	0	1	3920
786	DLLG21	092	177	43	6	230.78	091.72	176.79	2166	10	109000000	21223	13	13	1	42.0	.	.	.	.	.	.	.	.	0	1	3960
787	DLLG21	092	177	43	6	230.75	091.38	176.67	2169	10	109000000	22000	19	10	1	3.5	.	.	.	.	.	.	.	.	0	1	3970
788	DLLG21	092	177	42	6	230.81	091.92	176.80	2140	10	109000000	22000	15	10	3	16.8	1	.	.	.	.	.	1	.	0	1	3980
789	DLLG21	092	177	45	12	230.66	091.30	176.63	2759	10	109000000	80000	10	10	1	17.3	.	.	.	.	.	.	.	.	0	1	3990
790	DLLG21	092	177	44	6	230.70	091.30	176.91	2186	10	109000000	22000	19	10	1	22.0	.	.	.	.	.	.	3	.	0	1	4020
791	DLLG21	092	177	44	6	230.70	091.30	176.91	2186	10	109000000	21312	13	10	1	32.1	2	.	.	.	.	.	1	.	0	1	4030
792	DLLG21	092	177	46	12	230.63	091.69	175.72	2941	10	109000000	22000	13	10	1	18.8	.	.	.	.	.	.	.	.	0	1	4130
793	DLLG21	092	177	47	12	230.57	091.12	176.35	2976	10	109000000	32020	23	2	1	18.9	.	.	.	.	.	.	3	.	0	1	4140
794	DLLG21	092	177	49	12	.			7116	10	109000000	22000	19	10	1	23.5	.	.	.	.	.	.	1	.	0	1	4750
795	DLLG21	092	177	49	12	.			7116	10	109000000	31010	17	4	1	32.0	.	.	.	.	.	.	.	.	0	1	4760
796	DLLG21	092	177	49	12	.			7116	10	109000000	22000	11	10	1	26.8	2	.	.	.	.	.	1	.	0	1	4770
797	DLLG21	092	177	49	12	.			7116	10	109000000	22000	11	10	1	4.1	.	1	.	.	.	.	.	.	0	1	4780
798	DLLG21	092	177	49	12	.			7116	10	109000000	80000	10	10	2	15.1	.	.	.	.	.	.	3	.	0	1	4790
799	DLLG21	092	177	49	12	.			7116	10	109000000	90000	10	10	1	5.9	.	3	.	.	.	.	3	.	0	1	4800
800	DLLG21	092	177	49	12	.			7116	10	109000000	22000	14	.	1	3.9	2	3	.	.	.	.	.	.	0	1	4810
801	DLLG21	092	177	49	12	.			7116	10	109000000	40000	24	10	1	19.9	.	3	.	.	.	.	.	.	0	1	4820
802	DLLG21	092	177	49	12	.			7116	10	109000000	80000	10	10	4	12.0	.	.	.	.	.	.	.	.	0	1	4840
803	DLLG21	092	177	46	.	230.61	091.89	176.61	2932	10	109000000	22000	19	2	1	6.5	.	.	.	.	.	.	.	.	0	1	6160
804	DLLG21	092	177	33	15	231.28			1797	10	109000000	40000	24	10	1	2.7	.	3	.	.	.	.	.	.	0	1	6790
805	DLLG21	093	174	33	18	231.28	092.90	173.37	3701	10	109000000	22000	14	0	1	14.0	.	3	.	.	.	.	1	.	0	0	3030
806	DLLG21	093	174	33	18	231.25	092.85	173.87	3686	10	109000000	22000	19	0	1	55.9	.	.	.	.	.	.	3	.	0	0	3040
807	DLLG21	093	174	34	18	231.22	092.88	173.83	3689	10	109000000	22000	19	0	1	52.0	.	.	.	.	.	.	3	.	0	0	3050
808	DLLG21	093	174	31	.	231.36	092.82	173.77	3698	10	109000000	22000	13	10	1	51.5	1	.	.	.	.	.	1	.	0	1	2560
809	DLLG21	093	174	39	18	.			6662	10	109000000	90000	10	10	2	6.2	.	.	.	.	.	.	.	.	0	1	4510
810	DLLG21	093	175	30	.	231.45	092.55	174.90	1936	10	109000000	40000	13	10	1	37.1	.	.	.	.	.	.	.	.	0	1	1890
811	DLLG21	093	175	30	.	231.45	092.55	174.90	1936	10	109000000	90000	10	10	5	5.9	.	.	.	.	.	.	.	.	0	1	1900
812	DLLG21	093	177	.	.	.			3760	10	109000000	22000	12	0	1	15.0	.	3	.	.	.	.	3	.	0	0	1370
813	DLLG21	093	177	.	.	.			2930	10	109000000	22100	11	0	1	18.9	1	.	.	.	.	.	1	.	0	0	1390
814	DLLG21	093	177	17	.	.			2198	10	109000000	22000	19	10	1	32.0	.	.	.	.	.	.	.	.	0	0	2990
815	DLLG21	093	177	.	.	.			7063	10	109000000	22000	14	0	1	11.9	.	.	.	.	.	.	.	.	0	0	3440
816	DLLG21	093	177	.	.	.			7063	10	109000000	22000	19	10	1	19.0	.	.	.	.	.	.	0	.	0	0	3450
817	DLLG21	093	177	.	.	.			7063	10	109000000	40000	10	10	1	17.2	.	.	.	.	.	.	.	.	0	0	3460
818	DLLG21	093	177	.	.	.			7060	10	109000000	22000	19	0	1	11.9	.	.	.	.	.	.	3	.	0	0	3570
819	DLLG21	093	177	.	.	.			7060	10	109000000	90000	10	10	1	5.9	.	.	.	.	.	.	2	.	0	0	3580
820	DLLG21	093	177	.	.	.			7060	10	109000000	21311	18	0	1	6.0	.	.	.	.	.	.	2	.	0	0	3600
821	DLLG21	093	177	.	.	.			7060	10	109000000	90000	10	10	1	3.1	.	.	.	0	.	.	1	.	0	0	3610
822	DLLG21	093	177	.	.	.			7060	10	109000000	21505	23	3	1	9.3	.	.	.	.	.	.	2	.	0	0	3620
823	DILG21	093	177	.	12	.			6699	10	109000000	40000	10	10	1	14.8	.	.	.	.	.	.	.	.	0	0	3830
824	DILG21	093	177	20	.	230.33			7064	10	109000000	40000	10	10	1	40.1	.	.	.	.	.	.	.	.	0	0	4050
825	DLLG21	093	177	.	12	.			6775	10	109000000	41200	19	2	1	9.9	.	.	.	.	.	.	.	.	0	0	4100
826	DLLG21	093	177	.	12	.			6775	10	109000000	90000	10	10	1	3.7	.	.	.	.	.	.	.	.	0	0	4110
827	DLLG21	093	177	.	12	.			6775	10	109000000	40000	10	10	1	23.1	.	.	.	.	.	.	.	.	0	0	4130
828	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	109000000	80000	1	0	1	14.1	.	.	.	.	.	.	.	.	0	0	4720
829	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	109000000	22000	19	0	1	37.0	.	.	.	.	.	.	2	.	0	0	4790
830	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	109000000	40000	10	10	1	9.1	.	.	.	.	.	.	.	.	0	0	4830
831	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	109000000	90000	10	10	1	8.5	.	.	.	.	.	.	2	.	0	0	4840
832	DLLG21	093	177	24	.	229.93			6469	10	109000000	40000	10	10	1	39.0	.	.	.	.	.	.	.	.	0	0	4890
833	DLLG21	093	177	23	.	230.03			6455	10	109000000	21100	18	0	1	82.5	.	.	.	.	.	.	.	.	0	0	5620

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	ISIDE	FUSE	ERUPT	BURRN	JUVCORNT	BREAK	BUTCH	FLAKE	OTHER	REX	BONEUM
834	DLLG21	093	177	22	12	230.11	092.79	175.99	6429	10	109000000	21223	19	0	1	33.5	.	.	.	.	.	.	.	.	0	0	5960
835	DLLG21	093	177	.	12	.			6431	10	109000000	21223	19	0	1	15.7	.	.	.	.	.	.	.	.	0	0	5980
836	DLLG21	093	177	.	12	.			6431	10	109000000	21003	18	1	1	8.1	.	3	.	.	.	2	.	.	0	0	5990
837	DLLG21	093	177	.	12	.			6431	10	109000000	21002	18	4	1	9.1	.	1	.	.	.	2	.	.	0	0	6000
838	DLLG21	093	177	23	.	230.03			6455	10	109000000	40000	10	10	3	130.0	.	.	.	.	.	.	.	.	0	0	6030
839	DLLG21	093	177	23	.	230.03			6455	10	109000000	80000	10	10	1	46.0	.	.	.	.	.	.	.	.	0	0	6040
840	DLLG21	093	177	22	12	230.11	092.79	175.99	6472	10	109000000	21312	1	0	1	24.2	.	.	.	.	.	.	.	.	0	0	6490
841	DLLG21	093	177	19	.	230.43			6272	10	109000000	42100	11	0	1	40.9	.	3	.	.	.	3	.	.	0	0	6840
842	DLLG21	093	177	19	.	230.43			6272	10	109000000	40000	13	2	1	187.9	.	.	.	.	.	3	.	.	0	0	6850
843	DLLG21	093	177	23	.	.			6432	10	109000000	22000	19	0	1	133.9	.	.	.	.	.	2	.	.	0	0	6960
844	DLLG21	093	177	23	.	.			6432	10	109000000	40000	10	10	1	25.0	.	.	.	.	.	2	.	.	0	0	6970
845	DLLG21	093	177	23	.	.			6432	10	109000000	40000	10	10	1	12.5	.	.	.	.	.	2	.	.	0	0	6980
846	DLLG21	093	177	23	.	.			6432	10	109000000	32020	16	0	1	33.1	.	.	.	.	.	2	.	.	0	0	7000
847	DLLG21	093	177	23	.	.			6432	10	109000000	21002	18	0	2	3.9	.	.	.	.	.	2	.	.	0	0	7010
848	DLLG21	093	177	18	.	230.53			7164	10	109000000	22000	14	0	1	15.4	.	.	.	.	.	2	.	.	0	0	7140
849	DLLG21	093	177	18	.	230.53			7164	10	109000000	22000	10	10	1	9.6	.	.	.	.	.	.	.	.	0	0	7170
850	DLLG21	093	177	18	.	230.53			7164	10	109000000	22000	10	10	1	9.4	.	.	.	.	.	1	.	.	0	0	7190
851	DLLG21	093	177	23	12	230.03			6455	10	109000000	21312	19	0	1	22.5	.	.	.	.	.	1	.	.	0	0	8620
852	DLLG21	093	177	12	12	.			6775	10	109000000	90000	10	10	1	14.4	.	.	.	.	.	.	.	.	0	0	8640
853	DLLG21	093	177	12	.	231.15	092.75	176.78	1284	10	109000000	41302	19	0	1	29.5	1	.	.	.	.	.	.	.	0	0	8770
854	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	109000000	90000	10	10	1	51.1	.	.	.	.	.	2	.	.	0	0	9070
855	DLLG21	093	177	20	12	230.35	092.25	176.94	7115	10	109000000	32000	10	10	1	38.8	.	.	.	.	.	2	.	.	0	0	9190
856	DLLG21	093	177	.	.	.			2930	10	109000000	21505	1	0	1	8.5	.	.	.	.	.	3	.	.	0	0	9270
857	DLLG21	093	177	17	6	230.66	092.53	176.79	3724	10	109000000	22000	12	0	1	24.1	.	1	.	.	.	1	1	.	0	0	9290
858	DLLG21	093	177	14	.	230.98	092.70	176.72	1502	10	109000000	22000	12	0	1	24.4	.	3	.	.	.	1	.	.	0	0	9300
859	DLLG21	093	177	23	.	.			6432	10	109000000	21508	1	0	1	12.7	.	.	.	.	.	.	.	.	0	0	9440
860	DLLG21	093	177	17	.	.			2198	10	109000000	22000	11	0	1	2.1	.	.	.	.	.	1	.	.	0	0	9480
861	DLLG21	093	177	21	.	230.13			6566	10	109000000	22000	11	0	1	18.2	.	.	.	.	.	1	.	.	0	0	9510
862	DLLG21	093	177	14	6	230.89	092.39	176.84	3718	10	109000000	40000	10	10	1	8.1	.	.	.	.	.	.	.	.	0	1	50
863	DLLG21	093	177	21	.	230.23			6566	10	109000000	90000	10	10	1	10.9	.	.	.	.	.	2	.	.	0	1	220
864	DLLG21	093	177	.	.	.			7060	10	109000000	90000	10	10	1	12.0	.	.	.	.	.	1	.	.	0	1	260
865	DLLG21	093	177	17	.	.			2198	10	109000000	22000	11	1	1	4.9	.	.	.	.	.	0	.	.	0	1	330
866	DLLG21	093	177	17	.	.			2198	10	109000000	90000	10	10	1	4.9	.	.	.	.	.	.	.	.	0	1	340
867	DLLG21	093	177	13	6	230.89	092.39	176.84	3718	10	109000000	90000	13	10	1	8.0	.	.	.	.	.	.	.	.	0	1	1350
868	DLLG21	093	177	13	.	230.93			1401	10	109000000	90000	10	10	1	4.1	.	.	.	.	.	0	.	.	0	1	1360
869	DLLG21	093	177	13	.	230.93			1401	10	109000000	90000	13	10	2	12.8	.	.	.	.	.	.	.	.	0	1	1370
870	DLLG21	093	177	13	.	230.93			1398	10	109000000	21003	10	10	1	2.1	.	3	.	.	.	.	.	.	0	1	1390
871	DLLG21	093	177	13	.	230.93			1398	10	109000000	90000	11	10	1	4.8	.	3	.	.	.	.	.	.	0	1	1400
872	DLLG21	093	177	13	.	230.93			1398	10	109000000	90000	11	10	3	10.9	.	.	.	.	.	0	.	.	0	1	1410
873	DLLG21	093	177	17	.	230.53			2558	10	109000000	90000	10	10	2	2.9	.	.	.	2	.	.	.	.	0	1	1440
874	DLLG21	093	177	17	.	230.53			2558	10	109000000	42200	13	4	1	44.0	.	.	.	.	.	.	.	.	0	1	1450
875	DLLG21	093	177	16	6	230.73	092.12	176.82	3727	10	109000000	90000	10	10	1	5.2	.	.	.	.	.	.	.	.	0	1	1460
876	DLLG21	093	177	16	.	230.63			3566	10	109000000	90000	10	10	1	2.2	.	.	.	2	.	.	.	.	0	1	1490
877	DLLG21	093	177	16	.	230.63			3566	10	109000000	22000	13	10	1	29.0	.	.	.	.	.	1	.	.	0	1	1500
878	DLLG21	093	177	14	.	230.83			1503	10	109000000	90000	10	10	2	8.2	.	.	.	.	.	.	.	.	0	1	1530
879	DLLG21	093	177	11	.	231.16	092.10	176.75	3712	10	109000000	22000	19	10	1	29.8	.	.	.	.	.	3	.	.	0	1	1570
880	DLLG21	093	177	18	.	230.50			1952	10	109000000	22000	19	10	1	43.0	.	.	.	.	.	.	.	.	0	1	1580
881	DLLG21	093	177	16	.	230.77	092.24	176.05	2910	10	109000000	22000	14	10	1	22.0	.	.	.	.	.	.	.	.	0	1	1590
882	DLLG21	093	177	16	.	230.77	092.25	176.10	2908	10	109000000	22000	19	10	1	79.0	.	.	.	.	.	.	.	.	0	1	1600

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSET	ERUPT	JUVBURN	COCORAT	BBREAK	BBUTCH	FLAKE	OTHER	RBX	BONENUM
883	DLLG21	093	177	.	.	.			1978	10	109000000	11000	10	10	1	7.3	.	.	.	.	.	.	.	.	0	1	3020
884	DLLG21	093	177	.	.	.			1978	10	109000000	90000	10	10	1	7.1	.	.	.	.	.	.	1	.	0	1	3030
885	DLLG21	093	177	.	.	.			1978	10	109000000	80000	10	10	2	22.1	.	.	.	.	.	.	.	.	0	1	3050
886	DLLG21	093	177	.	.	.			1978	10	109000000	22000	14	10	1	16.2	.	.	.	.	.	.	.	.	0	1	3060
887	DLLG21	093	177	.	.	.			1978	10	109000000	22000	10	10	1	6.8	.	.	.	.	.	.	1	.	0	1	3080
888	DLLG21	093	177	18	.	230.56	092.52	176.68	1953	10	109000000	22000	10	10	1	49.1	.	.	.	.	.	.	2	.	0	1	3090
889	DLLG21	093	177	19	.	230.39	092.25	176.15	2207	10	109000000	40000	10	10	1	2.8	.	.	.	.	.	.	.	.	0	1	3100
890	DLLG21	093	177	19	.	.			2202	10	109000000	40000	13	10	1	45.8	.	.	.	.	.	1	.	.	0	1	3110
891	DLLG21	093	177	19	.	.			2202	10	109000000	22000	13	10	1	9.5	.	.	.	.	.	.	.	.	0	1	3120
892	DLLG21	093	177	19	.	.			2202	10	109000000	22000	10	10	1	32.8	.	.	.	.	.	.	1	.	0	1	3130
893	DLLG21	093	177	18	6	.	092.69	176.71	3717	10	109000000	22000	10	10	1	32.0	.	.	.	.	.	.	3	.	0	1	3150
894	DLLG21	093	177	17	6	.	092.02	176.83	3719	10	109000000	22000	10	10	1	32.0	.	.	.	.	.	.	3	.	0	1	3160
895	DLLG21	093	177	17	.	230.63	092.50	176.72	2917	10	109000000	90000	10	10	3	12.2	.	.	.	.	.	.	.	.	0	1	3210
896	DLLG21	093	177	15	6	230.86	092.45	176.78	3766	10	109000000	90000	24	10	1	2.0	.	.	.	.	1	.	.	.	0	1	3260
897	DLLG21	093	177	11	.	231.20	092.88	176.62	1938	10	109000000	90000	10	10	3	7.8	.	.	.	.	.	.	.	.	0	1	3740
898	DLLG21	093	177	11	.	231.20	092.88	176.62	1938	10	109000000	90000	24	10	1	10.5	.	.	.	.	.	.	.	.	0	1	3750
899	DLLG21	093	177	17	.	230.63			6639	10	109000000	22000	13	10	1	24.3	.	.	.	.	.	.	3	.	0	1	4160
900	DLLG21	093	177	17	.	230.63			6639	10	109000000	22000	13	10	1	21.9	.	.	.	.	.	.	1	.	0	1	4170
901	DLLG21	093	177	17	.	230.63			6639	10	109000000	22000	13	10	1	5.0	.	.	.	.	.	.	.	.	0	1	4180
902	DLLG21	093	177	17	.	230.63			6639	10	109000000	22000	13	10	1	4.3	.	.	.	.	.	.	.	.	0	1	4190
903	DLLG21	093	177	.	6	230.55	092.05	176.81	6599	10	109000000	22000	19	4	1	21.0	.	.	.	1	.	.	3	.	0	1	4540
904	DLLG21	093	177	.	6	230.51	092.23	176.74	6595	10	109000000	22000	19	.	1	27.9	.	.	.	.	.	.	1	.	0	1	4550
905	DLLG21	093	177	18	.	230.53			7164	10	109000000	21222	17	9	1	2.1	1	3	.	.	1	.	.	.	0	1	8600
906	DLLG21	094	174	37	18	.			3058	10	109000000	90000	10	10	4	7.0	.	.	.	.	.	.	.	.	0	0	2240
907	DLLG21	094	174	37	18	.			3058	10	109000000	21223	14	0	1	5.0	.	.	.	.	.	.	1	.	0	0	2250
908	DLLG21	094	174	35	.	231.02	093.52	173.92	2809	10	109000000	90000	10	10	1	4.5	.	.	.	.	.	.	.	.	0	0	2310
909	DLLG21	094	174	35	.	231.03	093.62	173.77	2806	10	109000000	90000	10	10	1	4.1	.	.	.	.	.	.	.	.	0	0	2320
910	DLLG21	094	174	35	.	231.03	093.62	173.77	2806	10	109000000	21000	17	6	1	5.4	.	.	.	.	.	.	2	.	0	0	2330
911	DLLG21	094	174	38	18	231.03	093.66	173.01	3244	10	109000000	31010	19	10	1	41.2	.	.	.	.	1	.	.	.	0	0	2340
912	DLLG21	094	174	38	18	231.04	093.13	173.22	3247	10	109000000	22000	19	0	1	47.4	.	.	.	.	.	.	.	.	0	0	2360
913	DLLG21	094	174	38	18	231.02	093.38	173.20	3239	10	109000000	22000	19	0	1	27.0	.	.	.	.	.	.	2	.	0	0	2410
914	DLLG21	094	174	38	18	231.03	093.28	173.30	3248	10	109000000	21223	14	0	1	11.5	.	.	.	.	.	.	3	.	0	0	2420
915	DLLG21	094	174	38	18	231.04	093.26	173.28	3242	10	109000000	21223	19	0	1	29.9	.	.	.	.	.	.	3	.	0	0	2430
916	DLLG21	094	174	40	15	230.90	093.18	173.13	6430	10	109000000	40000	13	9	2	96.5	.	.	.	.	.	.	.	.	0	0	6820
917	DLLG21	094	174	37	.	231.09	093.24	173.28	3154	10	109000000	22000	19	0	1	64.0	.	.	.	.	.	.	.	.	0	0	7050
918	DLLG21	094	174	35	18	231.15	093.38	173.14	2622	10	109000000	22000	14	0	2	13.8	.	.	.	.	.	.	2	.	0	0	7110
919	DLLG21	094	174	40	18	230.92	093.97	173.26	3703	10	109000000	21100	16	1	1	28.2	.	3	.	.	.	.	2	.	0	0	8950
920	DLLG21	094	174	38	18	.			3256	10	109000000	80001	10	10	1	3.1	.	.	.	.	.	.	2	.	0	1	190
921	DLLG21	094	174	24	.	231.73			3750	10	109000000	80000	10	10	2	4.3	.	.	.	.	.	.	.	.	0	1	1120
922	DLLG21	094	174	29	.	231.48			2445	10	109000000	40000	13	10	1	23.5	.	.	.	.	.	.	.	.	0	1	2540
923	DLLG21	094	174	39	18	230.97	093.92	173.43	3694	10	109000000	22000	13	10	1	26.8	.	.	.	.	.	.	.	.	0	1	2570
924	DLLG21	094	174	39	18	230.96	093.91	173.35	3699	10	109000000	22000	13	10	1	21.8	.	.	.	.	.	.	.	.	0	1	2580
925	DLLG21	094	174	28	.	.			2433	10	109000000	90000	10	10	1	4.8	.	.	.	.	.	.	.	.	0	1	2650
926	DLLG21	094	174	23	.	230.78			2013	10	109000000	40000	13	11	1	45.0	.	.	.	.	.	.	3	.	0	1	2670
927	DLLG21	094	174	38	18	231.04	093.28	173.38	3243	10	109000000	21223	15	10	1	42.0	.	.	.	.	.	.	3	.	0	1	2700
928	DLLG21	094	174	39	18	231.95	093.18	173.37	3696	10	109000000	22000	15	10	1	18.0	.	.	.	.	1	.	2	.	0	1	2710
929	DLLG21	094	174	37	18	231.06	093.17	173.66	3245	10	109000000	22000	15	10	1	56.1	1	.	.	.	.	.	3	.	0	1	2720
930	DLLG21	094	174	38	18	231.03	093.30	173.34	3246	10	109000000	22000	19	10	1	30.5	1	.	.	.	.	.	3	.	0	1	2730
931	DLLG21	094	174	37	18	231.09	093.24	173.28	3246	10	109000000	22000	19	10	1	63.1	.	.	.	.	.	.	.	.	0	1	2740

OBS	SITE	UNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSET	ERUPT	BURRN	JUVCORNT	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
932	DLLG21	094	174	39	18	231.98	093.87	173.48	3702	10	109000000	22000	19	10	1	33.8	2	.	.	.	.	.	1	.	0	1	2750
933	DLLG21	094	174	39	18	230.98	093.75	173.51	3707	10	109000000	22000	15	10	1	17.9	.	.	.	.	.	.	.	.	0	1	2760
934	DLLG21	094	174	38	18	231.03	093.32	173.22	3236	10	109000000	22000	19	10	1	21.8	.	.	.	.	.	.	.	.	0	1	2770
935	DLLG21	094	174	38	18	231.03	093.27	173.62	3240	10	109000000	22000	19	10	1	36.2	.	.	.	.	.	.	3	.	0	1	2780
936	DLLG21	094	174	35	18	231.16	093.29	173.27	2621	10	109000000	22000	19	10	3	37.5	.	.	.	.	.	.	3	.	0	1	2790
937	DLLG21	094	174	38	18	.			3256	10	109000000	90000	10	10	4	8.1	.	.	.	.	.	.	.	.	0	1	2840
938	DLLG21	094	174	38	.	231.03	093.30	173.34	3246	10	109000000	40000	10	10	1	3.8	.	.	.	.	.	.	.	.	0	1	2860
939	DLLG21	094	174	34	18	.			6675	10	109000000	22000	19	10	4	8.5	.	.	.	.	.	.	.	.	0	1	4650
940	DLLG21	094	174	34	18	.			6675	10	109000000	22000	19	10	2	7.0	.	.	.	.	.	.	1	.	0	1	4660
941	DLLG21	094	174	34	18	.			6675	10	109000000	90000	10	10	1	1.2	.	.	.	.	.	.	.	.	0	1	4670
942	DLLG21	094	174	34	18	.			6675	10	109000000	90000	10	10	1	3.0	.	.	.	.	.	.	.	.	0	1	4680
943	DLLG21	094	174	34	18	.			6675	10	109000000	21200	17	.	1	4.0	2	.	.	.	.	.	.	.	0	1	4690
944	DLLG21	094	175	37	18	231.07	093.64	174.09	3748	10	109000000	80000	10	10	1	13.0	.	.	.	.	.	.	.	.	0	0	3170
945	DLLG21	094	175	40	15	230.93	093.16	174.09	3753	10	109000000	90000	10	10	1	7.6	.	.	.	.	.	.	.	.	0	1	270
946	DLLG21	094	175	34	.	.			6613	10	109000000	40000	10	10	1	1.5	.	.	.	.	.	.	.	.	0	1	4630
947	DLLG21	094	189	28	16	231.32	093.25	188.25	4839	10	109000000	90000	10	10	1	10.2	.	.	.	.	.	.	.	.	0	1	1660
948	DLLG21	094	189	29	.	231.45	092.07	187.11	4868	10	109000000	40000	10	10	1	10.8	.	.	.	.	.	.	.	.	0	1	1670
949	DLLG21	094	191	22	2	.			2086	10	109000000	90000	10	10	1	2.8	.	.	.	.	.	.	.	.	0	1	200
950	DLLG21	094	191	23	3	231.78			2092	10	109000000	40000	10	10	1	8.2	.	.	.	.	.	.	.	.	0	1	1860
951	DLLG21	094	192	16	.	232.10	093.55	191.70	4326	10	109000000	22000	13	10	2	16.8	.	.	.	.	.	.	3	.	0	1	1840
952	DILG21	094	774	40	.	.			6717	10	109000000	21223	23	2	1	7.0	.	.	.	.	.	.	.	.	0	0	3960
953	DLLG21	095	173	17	.	232.06			6284	10	109000000	90000	10	10	2	6.3	.	.	.	.	.	.	.	.	0	0	8120
954	DILG21	096	174	.	.	.			6313	10	109000000	21508	1	0	1	13.0	.	.	.	.	.	.	.	.	0	0	4000
955	DLLG21	096	174	31	.	231.40			7070	10	109000000	22000	15	0	1	8.0	.	.	.	.	1	.	3	.	0	0	8160
956	DLLG21	096	174	24	.	231.73			3750	10	109000000	90000	10	10	2	6.8	.	.	.	.	.	.	.	.	0	1	1110
957	DLLG21	096	174	32	18	.			7072	10	109000000	90000	10	10	4	7.1	.	.	.	.	.	.	.	.	0	1	5240
958	DLLG21	096	174	32	18	.			7072	10	109000000	31013	19	0	1	74.1	2	.	.	.	.	.	.	.	0	1	5260
959	DLLG21	096	174	32	18	.			7072	10	109000000	22000	15	.	1	25.1	0	.	.	.	.	.	3	.	0	1	5270
960	DLLG21	999	999	.	.	.			7125	10	109000000	21003	18	1	1	6.1	.	.	.	.	.	.	2	.	0	0	6920
961	DLLG21	061	188	19	1	231.97			4395	10	110000000	21003	18	0	1	2.1	.	.	.	.	.	.	.	.	0	0	1000
962	DLLG21	061	188	20	1	231.93			4383	10	110000000	21003	10	10	2	2.2	.	.	.	.	.	.	3	.	0	0	1030
963	DLLG21	061	188	20	1	231.93			4381	0	110000000	90000	10	10	8	6.5	.	.	.	.	.	.	3	.	0	0	1050
964	DLLG21	061	188	17	1	232.07			4170	10	110000000	90000	10	10	1	3.0	.	.	.	.	.	.	3	.	0	0	1110
965	DLLG21	061	188	17	1	232.10			4166	10	110000000	21003	1	0	1	0.6	.	.	.	.	.	.	.	.	0	2	180
966	DLLG21	061	188	17	1	232.10			4166	10	110000000	21003	10	0	1	1.1	.	.	.	.	.	.	.	.	0	2	190
967	DLLG21	061	189	29	3	231.47			6971	10	110000000	90000	10	10	2	0.3	.	.	.	.	.	.	.	.	0	0	940
968	DLLG21	061	189	30	.	231.40	060.70	188.55	3686	10	110000000	90000	10	10	3	10.0	.	.	.	.	.	.	.	.	0	0	950
969	DLLG21	061	189	28	.	231.53			4984	10	110000000	90000	10	10	6	5.0	.	.	.	.	.	.	.	.	0	0	960
970	DLLG21	061	189	28	.	231.53			4984	10	110000000	40000	10	10	1	9.2	.	.	.	.	.	.	.	.	0	0	970
971	DLLG21	061	192	17	1	232.07			4151	10	110000000	21003	10	10	1	0.9	.	.	.	.	.	.	.	.	0	0	50
972	DLLG21	061	192	18	1	232.03			4371	10	110000000	21003	18	1	1	1.9	.	.	.	.	.	.	.	.	0	0	360
973	DLLG21	061	192	18	1	232.03			4370	10	110000000	22000	11	1	1	2.9	.	.	.	.	.	.	3	.	0	0	400
974	DLLG21	061	192	18	1	232.03			4370	10	110000000	50000	1	0	1	2.0	.	.	.	.	.	.	.	.	0	0	410
975	DLLG21	061	192	18	1	230.03			4369	10	110000000	23000	1	0	1	2.1	.	.	.	.	.	.	.	.	0	0	7030
976	DLLG21	074	185	19	.	231.97			3629	10	110000000	90000	10	10	2	1.0	.	.	.	.	.	.	.	.	0	1	1930
977	DLLG21	075	184	25	3	231.67			3634	10	110000000	90000	10	10	1	1.6	.	.	.	.	.	.	.	.	0	0	6810
978	DLLG21	075	185	25	3	231.68			3644	10	110000000	90000	10	10	1	5.0	.	.	.	.	.	.	.	.	0	1	1960
979	DLLG21	078	196	22	.	231.80	077.15	195.10	4443	10	110000000	90000	10	10	1	5.8	.	.	.	.	.	.	.	.	0	1	9300
980	DILG21	090	177	20	.	231.00			6897	10	110000000	90000	10	10	2	2.5	.	.	.	2	.	.	.	.	0	0	4020

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BRBAK	BUTCH	FLAKE	OTHER	REX	BONENUM
981	DILG21	090	177	20	.	231.00			6897	10	110000000	90000	10	10	1	1.5	.	.	.	.	.	.	.	.	0	0	4030
982	DLLG21	090	177	42	.	230.83			6461	10	110000000	90000	10	10	1	1.0	.	.	.	2	.	.	.	.	0	0	5000
983	DLLG21	090	177	14	.	231.02			6485	10	110000000	32020	17	1	1	12.5	.	.	.	.	.	.	.	.	0	0	6940
984	DLLG21	091	177	42	.	230.83			3788	10	110000000	40000	10	10	1	4.7	.	.	.	.	.	.	.	.	0	0	1720
985	DLLG21	091	177	42	.	230.83			3788	10	110000000	22000	10	10	1	4.0	.	.	.	.	.	.	.	.	0	0	1730
986	DLLG21	091	177	42	.	230.83			3788	10	110000000	90000	10	10	1	4.7	.	.	.	.	.	.	.	.	0	0	1910
987	DLLG21	091	177	39	.	230.97	090.15	176.80	6482	10	110000000	90000	10	10	1	1.4	.	.	.	1	.	.	.	.	0	0	6830
988	DLLG21	091	177	36	.	231.13	090.20	176.40	6495	10	110000000	90000	10	10	1	12.6	.	.	.	.	.	.	2	.	0	0	6950
989	DLLG21	091	177	39	.	.	090.20	176.90	3729	10	110000000	40000	10	10	1	4.0	.	.	.	.	.	.	.	.	0	1	2240
990	DLLG21	091	177	38	.	231.03			6627	10	110000000	40000	10	10	1	1.8	.	.	.	2	.	.	.	.	0	1	4480
991	DLLG21	092	177	37	6	231.06	091.06	176.91	2561	10	110000000	21100	10	10	1	4.2	.	.	.	.	.	.	.	.	0	0	1630
992	DLLG21	092	177	33	17	231.27			1797	10	110000000	90000	10	10	2	5.0	.	.	.	.	.	.	3	.	0	0	2010
993	DLLG21	092	177	33	17	231.27			1797	10	110000000	40000	24	10	1	2.9	.	3	.	1	.	.	.	.	0	0	2030
994	DLLG21	092	177	40	6	230.90	091.52	176.77	1887	10	110000000	42200	11	0	1	10.8	.	3	.	.	1	.	3	.	0	0	2070
995	DLLG21	092	177	34	16	231.22	091.90	175.75	1815	10	110000000	22000	19	0	1	12.0	.	.	.	.	.	.	0	.	0	0	2100
996	DLLG21	092	177	34	.	.			1814	10	110000000	90000	10	10	1	1.5	.	.	.	.	.	.	3	.	0	0	2150
997	DLLG21	092	177	35	.	.			1833	10	110000000	90000	10	10	2	1.9	.	.	.	.	.	.	.	.	0	0	2210
998	DLLG21	092	177	35	.	231.15	091.21	176.77	1835	10	110000000	80000	19	0	1	5.1	.	.	.	.	.	.	.	.	0	0	2270
999	DLLG21	092	177	23	2	231.77			1568	10	110000000	40000	13	2	1	29.6	.	.	.	.	.	.	3	.	0	0	3090
1000	DLLG21	092	177	48	12	230.51	091.18	176.60	3550	10	110000000	90000	10	10	3	2.0	.	.	.	.	.	.	.	.	0	0	3110
1001	DLLG21	092	177	45	6	230.68	091.54	176.69	2762	10	110000000	21100	19	2	1	8.0	.	.	.	.	.	.	.	.	0	0	3220
1002	DLLG21	092	177	44	.	230.70	091.95	176.89	2575	10	110000000	21300	23	1	1	6.6	.	.	.	.	.	.	.	.	0	0	3260
1003	DLLG21	092	177	46	6	230.61	091.89	176.61	2932	10	110000000	22000	19	0	1	35.0	.	.	.	.	.	.	.	.	0	0	3280
1004	DLLG21	092	177	48	12	230.51	091.09	176.36	3445	10	110000000	22000	13	0	1	34.5	.	.	.	.	.	.	.	.	0	0	3310
1005	DILG21	092	177	.	12	.			6755	10	110000000	90000	10	10	1	4.1	.	.	.	.	.	.	1	.	0	0	3890
1006	DILG21	092	177	.	12	.			6755	10	110000000	21311	18	0	1	3.0	.	.	.	.	.	.	3	.	0	0	3920
1007	DLLG21	092	177	17	.	.			1552	10	110000000	40000	10	10	1	1.4	.	.	.	.	.	.	.	.	0	0	8980
1008	DLLG21	092	177	48	5	230.53	091.88	176.52	3549	10	110000000	21500	20	0	1	4.0	.	3	.	.	.	.	2	.	0	0	9220
1009	DLLG21	092	177	36	3	231.13	091.75	176.39	1854	10	110000000	21300	18	0	1	9.5	.	3	.	.	.	.	2	.	0	0	9430
1010	DLLG21	092	177	48	.	230.53	091.88	176.52	3549	10	110000000	21502	1	0	1	0.7	.	3	.	.	.	.	.	.	0	1	350
1011	DLLG21	092	177	48	12	230.52	091.27	176.25	3439	10	110000000	80000	10	10	1	2.3	.	.	.	.	.	.	.	.	0	1	3950
1012	DLLG21	092	177	48	12	230.54	091.16	176.66	3539	10	110000000	90000	19	10	1	7.0	.	.	.	.	.	.	1	.	0	1	4010
1013	DLLG21	092	177	47	12	230.56	091.91	176.65	2974	10	110000000	22000	15	10	1	3.1	.	.	.	.	.	.	.	.	0	1	4080
1014	DLLG21	092	177	49	12	.			7116	10	110000000	90000	10	10	1	1.2	.	.	.	2	.	.	.	.	0	1	4850
1015	DLLG21	092	177	49	12	.			7116	10	110000000	90000	10	10	1	1.0	.	.	.	1	.	.	.	.	0	1	4860
1016	DLLG21	092	177	49	12	.			7116	10	110000000	90000	10	10	6	7.8	.	.	.	.	.	.	.	.	0	1	4870
1017	DLLG21	092	177	33	15	231.28			1797	10	110000000	40000	10	10	2	5.0	.	.	.	.	.	.	3	.	0	1	6800
1018	DLLG21	092	177	48	12	230.54	091.84	176.49	3541	10	110000000	42300	12	13	1	4.2	1	3	.	.	.	.	1	.	0	1	7490
1019	DLLG21	093	174	37	18	231.07	092.71	173.21	3693	10	110000000	22000	14	0	1	19.0	.	.	.	.	.	.	2	.	0	0	3020
1020	DLLG21	093	174	23	.	231.77			3277	10	110000000	90000	10	10	1	4.1	.	.	.	.	.	.	.	.	0	0	3060
1021	DLLG21	093	174	36	.	231.14	092.88	173.80	3692	10	110000000	22000	10	10	1	5.4	.	.	.	.	.	.	.	.	0	0	3070
1022	DLLG21	093	174	34	.	.			6598	10	110000000	40000	10	10	1	1.2	.	.	.	2	.	.	3	.	0	1	4460
1023	DLLG21	093	174	39	18	.			6662	10	110000000	40000	10	10	2	1.8	.	.	.	2	.	.	.	.	0	1	4500
1024	DLLG21	093	174	41	5	.			6578	10	110000000	90000	10	10	2	4.8	.	.	.	.	.	.	.	.	0	1	4580
1025	DLLG21	093	177	.	.	.			2930	10	110000000	22000	10	10	3	8.1	.	.	.	.	.	.	3	.	0	0	1400
1026	DLLG21	093	177	12	.	.			1331	10	110000000	21003	10	10	3	3.2	.	.	.	.	.	.	.	.	0	0	1450
1027	DLLG21	093	177	12	.	.			1331	10	110000000	22000	10	10	1	4.2	.	.	.	.	.	.	3	.	0	0	1460
1028	DLLG21	093	177	12	.	.			1331	10	110000000	21000	10	10	1	4.3	.	.	.	.	.	.	0	.	0	0	1470
1029	DLLG21	093	177	17	.	.			2198	10	110000000	90000	10	10	1	2.1	.	.	.	.	.	.	.	.	0	0	2980

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	FEUPT	JUVBURN	JUVCORAT	BCREAK	BRUTCH	FLAKE	OTHER	REX	BONEUM
1030	DLLG21	093	177	17	.	.			2198	10	110000000	22000	15	0	1	12.1	.	.	.	.	.	.	1	.	0	0	3000
1031	DLLG21	093	177	17	.	.			2198	10	110000000	21505	23	3	1	1.8	.	.	.	.	.	.	.	.	0	0	3010
1032	DLLG21	093	177	18	.	230.53			7066	10	110000000	22000	19	10	1	6.0	.	.	.	.	.	.	1	.	0	0	3480
1033	DLLG21	093	177	.	.	.			7060	10	110000000	90000	10	10	3	8.0	.	.	.	.	.	.	.	.	0	0	3590
1034	DLLG21	093	177	.	.	.			7060	10	110000000	22000	10	10	1	7.3	.	.	.	.	.	.	1	.	0	0	3740
1035	DLLG21	093	177	.	12	.			6775	10	110000000	90000	10	10	1	3.8	.	.	.	2	.	.	.	.	0	0	4080
1036	DLLG21	093	177	.	12	.			6775	10	110000000	80000	10	10	1	2.9	.	.	.	.	.	.	.	.	0	0	4090
1037	DILG21	093	177	.	12	.			6699	10	110000000	90000	10	10	2	3.0	.	.	.	.	.	.	.	.	0	0	4200
1038	DILG21	093	177	.	12	.			6699	10	110000000	31011	1	0	1	4.9	.	.	.	.	.	.	3	.	0	0	4220
1039	DLLG21	093	177	.	12	.			6699	10	110000000	22000	12	0	1	11.0	2	3	.	.	.	.	1	.	0	0	4510
1040	DLLG21	093	177	23	.	230.03			6455	10	110000000	90000	10	10	1	2.1	.	.	.	.	.	.	.	.	0	0	5570
1041	DLLG21	093	177	22	12	230.11	092.79	175.99	6429	10	110000000	22000	19	0	1	16.0	.	3	.	.	.	.	.	.	0	0	5970
1042	DLLG21	093	177	22	12	230.11	092.79	175.99	6472	10	110000000	90000	10	10	1	16.6	.	.	.	.	.	.	.	.	0	0	6460
1043	DLLG21	093	177	22	12	230.11	092.79	175.99	6472	10	110000000	22000	10	10	1	25.5	.	.	.	.	.	.	.	.	0	0	6480
1044	DLLG21	093	177	18	.	230.53			7164	10	110000000	21003	14	0	2	3.9	.	.	.	.	.	.	.	.	0	0	7150
1045	DLLG21	093	177	18	.	230.53			7164	10	110000000	40000	10	10	4	11.0	.	.	.	.	.	.	.	.	0	0	7160
1046	DLLG21	093	177	18	.	230.53			7164	10	110000000	22000	10	10	1	3.3	.	.	.	.	.	.	.	.	0	0	7180
1047	DLLG21	093	177	18	.	230.53			7164	10	110000000	40000	10	10	2	13.8	.	.	.	.	.	.	.	.	0	0	7210
1048	DLLG21	093	177	18	.	230.53			7164	10	110000000	90000	10	10	4	8.5	.	.	.	2	.	.	.	.	0	0	7220
1049	DLLG21	093	177	15	6	230.86	092.45	176.78	3766	10	110000000	21315	1	0	1	9.9	.	.	.	.	.	.	3	.	0	0	8940
1050	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	110000000	22000	15	0	3	10.0	.	.	.	.	.	.	1	.	0	0	9130
1051	DLLG21	093	177	13	.	.			1399	10	110000000	21300	17	1	1	15.5	.	.	.	.	.	.	0	.	0	0	9230
1052	DLLG21	093	177	17	.	230.63			6639	10	110000000	90000	10	10	2	3.6	.	.	.	.	.	.	.	.	0	1	290
1053	DLLG21	093	177	16	.	230.73			2904	10	110000000	90000	10	10	1	1.8	.	.	.	.	.	.	2	.	0	1	1610
1054	DLLG21	093	177	.	.	.			1978	10	110000000	40000	10	10	3	16.8	.	2	.	.	.	.	.	.	0	1	3040
1055	DLLG21	093	177	.	.	.			1978	10	110000000	22000	14	10	1	14.9	.	.	.	.	.	.	.	.	0	1	3070
1056	DLLG21	093	177	19	.	.			2202	10	110000000	22000	14	10	1	7.9	.	3	.	.	.	.	1	.	0	1	3140
1057	DLLG21	093	177	19	.	.			2203	10	110000000	80000	10	10	1	2.1	.	.	.	.	.	.	.	.	0	1	3280
1058	DLLG21	093	177	20	.	.			7064	10	110000000	23000	18	9	1	4.1	.	3	.	.	.	.	.	0	0	1	8070
1059	DLLG21	094	174	40	18	230.92	093.97	173.26	3703	10	110000000	21505	1	0	1	8.4	.	.	.	.	.	.	.	.	0	0	8960
1060	DLLG21	094	174	33	4	231.26	093.09	173.11	2597	10	110000000	22200	13	11	1	1.0	.	.	.	.	.	.	.	.	0	1	1130
1061	DLLG21	094	174	40	18	230.92	093.97	173.26	3703	10	110000000	22000	10	10	2	8.5	.	.	.	.	.	.	.	.	0	1	2470
1062	DLLG21	094	174	40	18	230.92	093.97	173.26	3703	10	110000000	90000	10	10	1	11.2	.	.	.	.	.	.	.	.	0	1	2480
1063	DLLG21	094	175	39	.	.			6196	10	110000000	90000	10	10	1	2.2	.	.	.	.	.	.	.	.	0	0	3120
1064	DLLG21	094	175	31	.	.			6211	10	110000000	90000	10	10	1	1.2	.	.	.	.	.	.	2	.	0	0	3130
1065	DLLG21	094	175	35	18	231.15	093.53	174.07	6467	10	110000000	90000	10	10	1	4.0	.	.	.	.	.	.	.	.	0	0	6560
1066	DLLG21	094	175	34	.	.			6613	10	110000000	12008	17	0	1	3.5	.	.	.	.	.	.	2	.	0	1	280
1067	DLLG21	094	191	28	.	231.54	093.43	189.24	2230	10	110000000	40000	10	10	1	1.1	.	.	.	.	.	.	.	.	0	1	1830
1068	DLLG21	094	192	25	16	231.66	093.07	190.09	4978	10	110000000	90000	10	10	1	1.1	.	.	.	.	.	.	.	.	0	1	1870
1069	DLLG21	096	174	27	.	.			6604	10	110000000	90000	10	10	5	8.3	.	.	.	.	.	.	.	.	0	1	4590
1070	DLLG21	096	174	27	.	.			6604	10	110000000	40000	10	10	1	14.2	.	.	.	.	.	.	.	.	0	1	4600
1071	DLLG21	096	174	36	.	231.15	094.15	173.65	7023	10	110000000	90000	10	10	1	1.7	.	.	.	.	.	.	.	.	0	1	9350
1072	DLLG21	061	188	17	1	232.07			4171	10	111000000	22000	13	10	1	1.7	.	.	.	.	.	.	3	.	0	0	520
1073	DLLG21	061	188	18	1	232.03			4202	10	111000000	22000	13	10	1	2.2	.	.	.	.	.	.	3	.	0	0	530
1074	DLLG21	061	188	19	1	231.97			4398	10	111000000	22000	13	10	1	1.0	.	.	.	.	.	.	2	.	0	0	550
1075	DLLG21	061	188	17	1	232.07			4176	10	111000000	21003	19	.	1	0.3	.	.	.	.	.	.	.	.	0	0	760
1076	DLLG21	061	188	17	1	232.07			4176	10	111000000	90000	10	10	3	4.0	.	.	.	.	.	.	3	.	0	0	770
1077	DLLG21	061	188	17	1	232.07			4176	10	111000000	50000	10	10	1	1.0	.	.	.	.	.	.	.	.	0	0	780
1078	DLLG21	061	188	17	1	232.07			4173	10	111000000	50100	14	0	1	0.8	.	.	.	.	.	.	.	.	0	0	920

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
1079	DLLG21	061	188	20	1	231.93			4384	10	111000000	21003	10	10	1	0.4	.	.	.	.	.	.	.	.	0	0	930
1080	DLLG21	061	188	18	1	232.03			4201	10	111000000	22000	10	10	1	1.0	.	.	.	.	.	.	.	.	0	0	1090
1081	DLLG21	061	188	17	1	232.07			4175	10	111000000	31010	11	2	1	5.1	.	.	.	.	.	.	.	.	0	1	90
1082	DLLG21	061	188	18	1	232.03			4203	10	111000000	90000	10	10	2	2.6	.	.	.	.	.	.	.	.	0	1	100
1083	DLLG21	061	188	20	1	231.93			4379	10	111000000	41102	14	1	1	1.1	.	3	.	.	.	.	1	.	0	1	7520
1084	DLLG21	061	189	31	16	231.33			2685	10	111000000	21003	10	10	1	0.1	.	.	.	.	.	.	.	.	0	0	1200
1085	DLLG21	061	192	18	1	232.03			4371	10	111000000	40500	11	0	1	0.7	.	.	.	1	.	.	.	.	0	0	340
1086	DLLG21	061	192	16	1	232.03			4345	10	111000000	22000	12	0	1	1.5	.	.	.	.	.	.	.	.	0	0	420
1087	DLLG21	061	192	19	1	231.97			4773	10	111000000	41200	11	0	1	2.1	.	.	.	.	.	.	3	.	0	0	440
1088	DLLG21	061	192	20	1	231.93			4792	10	111000000	21300	11	10	1	0.1	.	.	.	.	.	.	.	.	0	1	620
1089	DLLG21	061	192	20	1	231.93			4792	10	111000000	50000	10	10	1	0.5	.	.	.	.	.	.	.	.	0	1	630
1090	DLLG21	061	192	20	1	231.93			4792	10	111000000	90000	10	10	46	26.0	.	.	.	.	.	.	.	.	0	1	640
1091	DLLG21	061	192	16	1	232.13			4344	10	111000000	40000	24	.	1	2.0	.	3	.	.	.	.	.	.	0	1	7480
1092	DLLG21	075	184	25	3	231.67			3633	10	111000000	61007	1	0	1	0.9	.	.	.	.	.	.	1	.	0	0	9500
1093	DLLG21	078	194	33	16	231.26	077.17	192.92	2897	10	111000000	42100	11	7	1	3.9	.	3	.	.	.	.	.	.	0	1	860
1094	DLLG21	078	194	28	16	.			7127	10	111000000	90000	10	10	1	1.3	.	.	.	.	.	.	.	.	0	1	7380
1095	DLLG21	078	196	14	.	232.21	077.22	194.06	4021	10	111000000	90000	10	10	1	1.4	.	.	.	.	.	.	.	.	0	0	8930
1096	DLLG21	078	196	15	.	232.18			4031	10	111000000	90000	10	10	1	3.8	.	.	.	1	.	.	1	.	0	1	1030
1097	DLLG21	078	196	15	.	232.18			4031	10	111000000	50000	1	.	1	1.1	.	3	.	.	.	.	.	.	0	1	7470
1098	DLLG21	086	192	13	.	.			4061	10	111000000	21003	1	0	1	0.6	.	3	.	.	.	.	.	.	0	0	8920
1099	DLLG21	086	194	25	.	231.65			6426	10	111000000	90000	10	10	1	1.5	.	.	.	.	.	.	.	.	0	0	3780
1100	DLLG21	086	194	24	.	231.73			3596	10	111000000	90000	10	10	3	3.0	.	.	.	.	.	.	.	.	0	0	3790
1101	DLLG21	090	177	42	.	230.83			6461	10	111000000	80000	1	0	1	1.1	.	.	.	.	.	.	.	.	0	0	4990
1102	DLLG21	090	177	41	.	230.87			6493	10	111000000	40000	10	10	2	1.2	.	.	.	2	.	.	.	.	0	0	6930
1103	DLLG21	090	177	31	.	231.37			3980	10	111000000	50100	15	0	1	1.3	.	.	.	.	.	.	.	.	0	0	9250
1104	DLLG21	090	177	30	.	231.45			6248	10	111000000	40000	13	10	1	1.1	.	.	.	.	.	.	.	.	0	1	4560
1105	DLLG21	091	176	41	18	230.86	090.80	175.85	3735	10	111000000	22000	13	0	1	6.1	.	0	.	.	.	.	1	.	0	0	1600
1106	DLLG21	091	176	41	.	230.87			3787	10	111000000	21200	16	4	1	3.7	.	.	.	.	.	.	.	.	0	1	6000
1107	DLLG21	091	177	42	.	230.83			3788	10	111000000	21311	1	0	1	1.5	.	.	.	.	.	.	.	.	0	0	1840
1108	DLLG21	091	177	43	.	230.77			7117	10	111000000	21507	1	0	2	4.2	.	.	.	.	.	.	.	.	0	0	8100
1109	DLLG21	091	177	34	.	231.23			3468	10	111000000	22000	10	10	2	3.0	.	.	.	.	.	.	.	.	0	1	2270
1110	DLLG21	091	177	44	.	230.75	090.85	176.30	7036	10	111000000	90000	10	10	1	0.2	.	.	.	.	.	.	.	.	0	1	9830
1111	DLLG21	092	177	33	17	231.27			1797	10	111000000	90000	10	10	6	3.4	.	.	.	.	.	.	.	.	0	0	2000
1112	DLLG21	092	177	42	6	230.83	091.70	176.87	2570	10	111000000	80000	10	10	2	7.0	.	.	.	.	.	.	0	.	0	0	3400
1113	DLLG21	092	177	48	12	230.51	091.05	176.14	3536	10	111000000	80000	10	10	1	6.8	.	.	.	.	.	.	.	.	0	0	3410
1114	DILG21	092	177	.	12	.			6755	10	111000000	90000	10	10	2	15.4	.	.	.	.	.	.	.	.	0	0	3900
1115	DILG21	092	177	.	12	.			6755	10	111000000	90000	10	10	2	2.0	.	.	.	2	.	.	.	.	0	0	3910
1116	DILG21	092	177	.	12	.			6755	10	111000000	80004	10	10	1	1.9	.	.	.	.	.	.	.	.	0	0	3930
1117	DLLG21	092	177	12	.	.			6755	10	111000000	90000	10	10	1	1.7	.	.	.	.	.	.	.	.	0	0	7880
1118	DLLG21	092	177	49	12	.			7116	10	111000000	22000	11	0	1	4.1	.	3	.	.	.	.	.	.	0	0	8660
1119	DLLG21	092	177	45	6	230.65	091.06	176.62	2752	10	111000000	22100	11	0	1	4.3	.	3	.	.	.	.	.	.	0	0	8850
1120	DLLG21	092	177	46	6	230.60	091.74	176.55	2938	10	111000000	21300	18	0	1	6.8	.	3	.	.	.	.	2	.	0	0	9240
1121	DLLG21	092	177	44	6	230.74	091.90	176.89	2583	10	111000000	21110	1	.	1	1.1	.	.	.	.	.	.	.	.	0	1	2120
1122	DLLG21	092	177	32	.	.	091.84	176.37	1756	10	111000000	40000	13	10	1	2.0	.	.	.	.	.	.	.	.	0	1	3910
1123	DLLG21	092	177	46	.	230.61	091.89	176.61	2932	10	111000000	22000	19	12	1	4.5	.	.	.	.	.	.	.	.	0	1	6170
1124	DLLG21	092	177	47	12	230.55			2981	10	111000000	22000	15	.	2	8.2	.	.	.	.	.	.	1	.	0	1	6190
1125	DLLG21	092	177	36	15	231.12	091.83	176.42	1855	10	111000000	21300	23	.	1	10.5	.	3	.	.	.	.	3	.	0	1	7570
1126	DLLG21	092	177	47	12	230.55	091.20	176.29	2984	10	111000000	21223	23	.	1	4.3	.	.	.	.	.	.	.	.	0	1	7710
1127	DLLG21	093	173	.	.	.			6330	10	111000000	40000	13	9	3	12.9	.	.	.	.	.	.	.	.	0	0	7080

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BRAKE	BUTCH	FLAKE	OTHER	BONEUM
1128	DLLG21	093	173	.	.	.			6330	10	111000000	90000	10	10	3	3.10	.	.	.	.	.	.	.	.	0	0 7090
1129	DLLG21	093	177	12	.	230.29	092.60	176.35	1328	10	111000000	80000	1	0	1	1.10	.	.	.	.	.	.	.	.	0	0 1380
1130	DLLG21	093	177	12	.	.			1288	10	111000000	40000	10	10	2	3.00	.	.	.	.	.	.	.	.	0	0 1490
1131	DLLG21	093	177	.	.	.			7060	10	111000000	22000	19	0	1	5.10	.	.	.	.	.	.	3	.	0	0 3540
1132	DLLG21	093	177	.	.	.			7060	10	111000000	22000	19	0	1	5.00	.	.	.	.	.	.	1	.	0	0 3550
1133	DLLG21	093	177	.	.	.			7060	10	111000000	22000	19	0	1	3.10	.	.	.	.	.	.	2	.	0	0 3560
1134	DLLG21	093	177	.	12	.			6775	10	111000000	90000	10	10	1	3.00	.	.	.	.	.	.	.	.	0	0 4070
1135	DLLG21	093	177	23	.	230.03			6455	10	111000000	31011	11	0	1	9.90	.	.	.	.	.	.	3	.	0	0 5580
1136	DLLG21	093	177	23	.	230.03			6455	10	111000000	22000	15	0	1	4.30	.	.	.	.	.	.	2	.	0	0 5600
1137	DLLG21	093	177	23	.	230.03			6455	10	111000000	21315	1	0	1	6.70	.	.	.	.	.	.	.	.	0	0 5610
1138	DLLG21	093	177	22	12	230.11	092.79	175.99	6472	10	111000000	22000	15	0	1	6.00	.	.	.	.	.	.	.	.	0	0 6470
1139	DLLG21	093	177	13	.	.			1400	10	111000000	90000	10	10	2	3.10	.	.	.	.	.	.	.	.	0	0 7040
1140	DLLG21	093	177	18	.	230.53			7164	10	111000000	22000	14	0	1	3.20	.	.	.	.	.	.	1	.	0	0 7130
1141	DLLG21	093	177	18	.	230.53			7164	10	111000000	90000	10	10	1	1.40	.	.	.	.	.	.	1	.	0	0 7200
1142	DLLG21	093	177	18	.	230.53			7164	10	111000000	80000	10	10	1	0.60	.	.	.	.	.	.	.	.	0	0 7250
1143	DLLG21	093	177	18	.	230.53			7164	10	111000000	90000	10	10	1	2.00	.	.	.	2	.	.	.	.	0	0 7260
1144	DLLG21	093	177	.	.	.			7063	10	111000000	41200	15	0	1	5.00	.	.	.	.	1	.	1	.	0	0 7510
1145	DLLG21	093	177	13	.	.			1412	10	111000000	21002	1	0	1	5.60	.	3	.	.	.	.	.	.	0	0 8820
1146	DLLG21	093	177	12	.	231.09	092.52	176.39	1362	10	111000000	21002	1	0	1	4.60	.	3	.	.	.	.	.	.	0	0 8910
1147	DLLG21	093	177	16	.	230.76	092.48	175.76	2375	10	111000000	22000	10	10	1	8.90	.	.	.	.	.	.	.	.	0	1 3170
1148	DLLG21	093	177	19	.	230.47	092.50	176.72	2209	10	111000000	90000	10	10	1	0.80	.	.	.	.	.	.	.	.	0	1 3680
1149	DLLG21	093	177	13	.	230.93			1400	10	111000000	21223	23	3	1	1.50	.	.	.	1	.	.	3	.	0	1 7450
1150	DLLG21	093	177	19	.	230.38			2203	10	111000000	50000	1	.	1	0.80	.	3	.	.	1	.	.	.	0	1 7610
1151	DLLG21	093	177	19	.	230.38			2203	10	111000000	21200	23	4	1	2.80	.	.	.	.	.	.	.	.	0	1 7620
1152	DLLG21	093	177	18	.	230.48			7164	10	111000000	21500	1	0	1	1.10	.	.	.	2	.	.	.	.	0	1 8770
1153	DLLG21	093	179	24	.	231.75			1474	10	111000000	90000	10	10	2	0.90	.	.	.	.	.	.	.	.	0	1 1910
1154	DLLG21	094	174	38	.	231.07	093.56	173.02	6435	10	111000000	90000	10	10	1	1.80	.	.	.	.	.	.	.	.	0	0 7020
1155	DLLG21	094	174	34	18	231.36	093.09	173.11	2597	10	111000000	22000	13	0	1	0.90	.	.	.	.	.	.	.	.	0	1 9290
1156	DILG21	095	173	24	3	231.75			6715	10	111000000	90000	10	10	1	1.00	.	.	.	.	.	.	.	.	0	0 4010
1157	DLLG21	096	174	31	.	231.40			7070	10	111000000	40000	10	10	1	1.50	.	.	.	.	.	.	1	.	0	0 8170
1158	DLLG21	096	174	31	.	231.40			7070	10	111000000	90000	10	10	1	3.50	.	.	.	.	.	.	.	.	0	0 8180
1159	DLLG21	096	174	24	..	231.70			3751	10	111000000	90000	13	10	1	2.80	.	.	.	.	.	.	.	.	0	1 2930
1160	DLLG21	061	192	18	1	232.03			4371	10	112000000	21003	19	0	1	0.90	.	3	.	.	.	.	3	.	0	0 350
1161	DLLG21	091	177	42	.	230.83			3788	10	112000000	50100	11	0	1	0.20	.	.	.	1	.	.	.	.	0	0 1900
1162	DLLG21	091	177	43	.	230.77			7117	10	112000000	21003	1	0	2	1.70	.	.	.	.	.	.	.	.	0	0 5530
1163	DLLG21	091	177	43	.	230.77			7117	10	112000000	21002	10	10	1	1.20	.	3	.	.	.	.	.	.	0	0 5720
1164	DLLG21	091	177	42	.	230.80			3788	10	112000000	50100	1	0	2	0.10	.	.	.	.	.	.	.	.	0	1 8920
1165	DLLG21	091	177	44	.	230.75	090.85	176.30	7036	10	112000000	90000	10	10	4	0.40	.	.	.	2	.	.	.	.	0	1 9810
1166	DLLG21	091	177	44	.	230.75	090.85	176.30	7036	10	112000000	21500	1	0	1	0.10	.	.	.	.	.	.	.	.	0	1 9840
1167	DLLG21	091	177	45	.	230.70	090.85	176.30	7159	10	112000000	50100	1	0	3	0.20	.	.	.	.	.	.	.	.	0	1 9900
1168	DLLG21	091	177	45	.	230.70	090.85	176.30	7159	10	112000000	21500	1	0	1	0.05	.	.	.	.	.	.	.	.	0	1 9910
1169	DLLG21	092	177	44	6	230.70	091.99	176.89	2576	10	112000000	40000	13	11	1	1.00	.	.	.	2	.	.	.	.	0	0 3430
1170	DILG21	092	177	.	12	.			6755	10	112000000	11000	10	10	1	0.50	.	.	.	.	.	.	.	.	0	0 3950
1171	DLLG21	092	177	46	.	230.63			2964	10	112000000	90000	10	10	1	1.80	.	.	.	2	.	.	.	.	0	0 7070
1172	DLLG21	092	181	25	2	231.68			1448	10	112000000	21000	11	10	1	0.80	.	3	.	.	.	.	.	.	0	1 870
1173	DLLG21	093	177	16	.	230.72	092.62	175.60	1970	10	112000000	90000	10	10	4	0.10	.	.	.	.	.	.	.	.	0	0 2720
1174	DLLG21	093	177	4	.	.			1978	10	112000000	22000	12	0	1	0.20	.	.	.	.	.	.	.	.	0	0 7920
1175	DLLG21	094	174	37	.	231.05	093.34	173.72	3055	10	112000000	42600	1	0	1	1.10	.	.	.	.	.	.	.	.	0	0 7100
1176	DLLG21	094	175	34	18	231.20	093.52	174.05	6500	10	112000000	22000	1	0	3	0.20	.	.	.	.	.	.	.	.	0	0 6720

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	EUPT	BURN	JUVCOR	BRACK	BULTCH	FLAKE	OTHER	REX	BONEUM
1177	DLLG21	096	174	27	.	.			6604	10	112000000	11066	10	10	1	1.30	.	.	.	.	.	.	.	.	0	1	4610
1178	DLLG21	096	174	32	18	.			7072	10	112000000	31010	19	13	2	6.90	.	.	.	.	.	.	1	.	0	1	6770
1179	DLLG21	091	177	43	.	230.77			7117	10	113000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	0	5730
1180	DLLG21	091	177	45	.	230.70	090.85	176.30	7159	10	113000000	40000	14	0	1	0.05	.	.	.	.	.	.	.	.	0	1	9960
1181	DLLG21	092	177	54	.	230.25	091.85	176.30	8004	10	113000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	9370
1182	DLLG21	093	177	.	12	.			6699	10	113000000	22000	12	.	1	0.10	.	.	.	.	.	.	.	.	0	1	6530
1183	DLLG21	094	192	.	18	232.03	093.06	190.08	4420	10	113000000	40000	13	11	1	0.80	.	.	.	.	.	.	.	.	0	1	1880
1184	DLLG21	096	177	31	.	231.35	095.12	176.83	6468	10	113000000	11000	10	10	2	0.20	.	.	.	.	.	.	.	.	0	0	4910
1185	DLLG21	061	189	30	16	231.40	060.69	188.55	2686	10	190000000	90000	10	10	3	9.90	.	.	.	.	.	.	.	.	0	1	9340
1186	DLLG21	061	188	19	1	231.97			4401	10	300000000	90000	10	10	4	0.70	.	.	.	.	.	.	.	.	0	0	610
1187	DLLG21	061	188	17	1	232.07			4176	10	300000000	90000	10	10	12	3.00	.	.	.	.	.	.	.	.	0	0	750
1188	DLLG21	061	188	18	1	232.03			4200	10	300000000	40000	13	10	5	2.40	.	.	.	.	.	.	.	.	0	0	860
1189	DLLG21	061	188	18	1	232.03			4200	10	300000000	90000	10	10	7	2.10	.	.	.	.	.	.	.	.	0	0	870
1190	DLLG21	061	188	20	1	231.93			4383	10	300000000	40000	13	9	7	2.50	.	.	.	.	.	.	.	.	0	0	1020
1191	DLLG21	061	188	17	1	232.13			4174	10	300000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	7600
1192	DLLG21	061	192	22	2	231.83			5019	10	300000000	40000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	0	90
1193	DLLG21	061	192	19	1	231.97			4782	10	300000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	0	260
1194	DLLG21	061	192	18	1	232.03			4371	10	300000000	90000	10	10	4	1.40	.	.	.	.	.	.	.	.	0	0	370
1195	DLLG21	061	192	19	1	231.97			4776	10	300000000	22000	19	0	1	0.05	.	.	.	.	.	.	.	.	0	0	460
1196	DLLG21	061	192	18	1	232.03			4367	10	300000000	90000	10	10	1	0.60	.	.	.	.	.	.	.	.	0	0	470
1197	DLLG21	061	192	20	1	231.93			4792	10	300000000	90000	10	10	7	1.00	.	.	.	.	.	.	.	.	0	1	650
1198	DLLG21	061	192	19	.	231.98			4780	10	300000000	41508	19	3	1	0.20	.	.	.	.	.	.	.	.	0	1	6150
1199	DLLG21	061	192	19	1	231.98			4775	10	300000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	6640
1200	DLLG21	078	196	16	.	232.13			4103	10	300000000	90000	10	10	1	0.30	.	.	.	.	.	.	.	.	0	1	1070
1201	DLLG21	086	194	14	.	232.23			4404	10	300000000	90000	10	10	2	0.20	.	.	.	.	.	.	.	.	0	1	960
1202	DLLG21	086	194	14	.	232.23			4404	10	300000000	90000	13	11	1	0.10	.	.	.	.	.	.	.	.	0	1	970
1203	DLLG21	090	177	30	.	231.45	088.92	176.30	7024	10	300000000	22000	11	0	1	0.10	.	.	.	.	.	.	.	.	0	1	9390
1204	DLLG21	091	176	41	.	230.87			6483	10	300000000	90000	10	10	1	0.20	.	.	.	.	.	.	.	.	0	1	6380
1205	DLLG21	091	177	42	.	230.83			3788	10	300000000	22201	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	1870
1206	DLLG21	091	177	42	18	230.77			6464	10	300000000	22000	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	6140
1207	DLLG21	092	177	42	6	230.81	091.00	175.86	2145	10	300000000	14002	1	.	2	0.10	.	.	.	.	.	.	.	.	0	1	6890
1208	DLLG21	092	177	54	.	230.25	091.85	176.30	8004	10	300000000	22000	11	0	3	0.10	.	.	.	.	.	.	.	.	0	1	9360
1209	DLLG21	093	177	19	.	.			2203	10	300000000	40000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	3290
1210	DLLG21	093	177	.	12	.			6699	10	300000000	41200	15	0	1	0.40	.	.	.	.	.	.	.	.	0	1	6550
1211	DLLG21	093	177	18	12	230.52	092.05	175.87	6484	10	300000000	50000	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	7180
1212	DLLG21	093	177	18	.	230.56	092.05	176.43	7137	10	300000000	10002	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	7350
1213	DLLG21	094	174	31	18	231.21	093.38	173.14	6487	10	300000000	90000	10	10	4	0.30	.	.	.	.	.	.	.	.	0	0	6440
1214	DLLG21	096	174	32	.	231.32	095.56	173.53	7118	10	300000000	50100	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	7430
1215	DLLG21	096	174	26	.	231.63			3752	10	300000000	40000	10	10	1	0.50	.	.	.	.	.	.	.	.	0	1	2890
1216	DLLG21	096	174	26	.	231.63			3752	10	300000000	90000	10	10	4	0.20	.	.	.	.	.	.	.	.	0	1	2910
1217	DLLG21	061	192	19	1	231.98			4774	10	303010202	51121	1	.	1	0.25	1	.	.	.	.	.	.	.	0	1	530
1218	DLLG21	093	177	17	.	230.53			2558	10	304000000	32050	21	1	1	0.10	2	.	.	.	.	.	.	.	0	1	6130
1219	DLLG21	090	177	33	15	231.28			3950	10	305000000	52121	1	.	1	0.10	2	.	.	.	.	.	.	.	0	1	1800
1220	DLLG21	092	177	48	.	230.52	091.12	176.57	3542	10	305000000	41300	13	11	1	0.70	2	.	.	.	.	.	.	.	0	1	6300
1221	DLLG21	092	177	36	.	.			1852	10	305000000	42508	14	0	1	0.30	.	.	.	.	.	.	.	.	0	1	9100
1222	DLLG21	093	176	40	.	230.92	092.72	175.75	3737	10	305000000	42100	12	11	1	1.00	.	.	.	.	1	.	.	.	0	1	7720
1223	DLLG21	092	177	17	.	.			1552	10	305010000	31030	12	0	2	1.00	.	.	.	.	.	.	.	.	0	0	8970
1224	DLLG21	092	177	42	6	230.82	091.16	176.22	2144	10	305010000	41300	1	.	1	2.00	2	.	.	.	.	.	.	.	0	1	3770
1225	DLLG21	092	177	42	6	230.82	091.16	176.22	2144	10	305010000	41200	1	.	1	1.90	2	.	.	.	.	.	.	.	0	1	3780

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUAN	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCOR	BREAK	BUTCH	FLAKE	OTHER	REX	BONEUM
1226	DLLG21	092	177	42	.	230.80			2141	10	305010000	41508	1	0	1	0.3	1	.	.	.	.	.	.	.	0	1	8910
1227	DLLG21	093	177	22	.	230.11			5620	10	305010000	31030	11	0	1	0.2	.	.	.	.	.	.	.	.	0	0	6740
1228	DLLG21	093	177	8	12	230.52	092.05	175.85	3759	10	305010000	11000	1	0	5	0.9	.	.	.	.	.	.	.	.	0	0	7840
1229	DLLG21	093	177	4	.	.			1978	10	305010000	41200	15	0	1	0.2	2	.	.	.	.	.	.	.	0	0	7930
1230	DLLG21	093	177	4	.	.			1978	10	305010000	41300	15	0	1	0.5	2	.	.	.	.	.	.	.	0	0	7940
1231	DLLG21	093	177	18	12	230.52	092.05	175.87	6484	10	305010000	41200	1	.	1	0.1	2	.	.	.	.	.	.	.	0	1	7140
1232	DLLG21	093	177	18	12	230.52	092.08	175.87	6484	10	305010000	41300	1	.	1	0.4	2	.	.	.	.	.	.	.	0	1	7150
1233	DLLG21	093	177	18	12	230.52	092.05	175.87	6484	10	305010000	42508	1	.	1	0.2	2	.	.	.	.	.	.	.	0	1	7160
1234	DLLG21	093	177	18	12	230.52	092.05	175.87	6484	10	305010000	12000	21	13	2	0.2	1	.	.	.	.	.	.	.	0	1	7170
1235	DLLG21	093	177	16	.	230.73	092.02	175.23	1944	10	305010000	42508	1	0	1	1.4	2	.	.	.	.	.	.	.	0	1	8740
1236	DLLG21	093	177	16	.	230.73	092.02	175.23	1944	10	305010000	41508	1	0	1	0.9	2	.	.	.	.	.	.	.	0	1	8750
1237	DLLG21	093	177	13	.	231.13	092.52	175.72	1356	10	305020101	51122	1	.	1	0.8	1	.	.	.	.	.	.	.	0	1	1640
1238	DLLG21	061	192	18	1	232.03			4366	10	305030000	22000	11	.	1	0.1	.	.	.	.	.	.	.	.	0	1	550
1239	DLLG21	091	177	42	.	230.83			3788	10	305030000	42400	15	0	1	1.3	2	.	.	.	.	.	.	.	0	0	7720
1240	DLLG21	093	177	12	.	.			6775	10	305030000	42508	1	.	1	1.8	1	3	.	.	1	.	.	.	0	1	5930
1241	DLLG21	093	177	12	.	.			6775	10	305030000	42508	1	.	1	2.3	1	3	.	.	1	.	.	.	0	1	5940
1242	DLLG21	090	177	42	.	230.83			6461	10	305030101	42400	15	0	1	7.4	1	.	.	.	.	.	.	.	0	0	8270
1243	DLLG21	093	177	.	.	.			7063	10	305030101	41300	1	0	1	6.4	2	.	.	.	.	.	.	.	0	0	8200
1244	DLLG21	093	177	.	.	.			7063	10	305030101	41300	15	0	1	3.4	1	.	.	.	.	.	.	.	0	0	8210
1245	DLLG21	093	177	.	.	.			7063	10	305030101	41200	1	0	1	2.9	.	.	.	.	.	.	.	.	0	0	8220
1246	DLLG21	093	177	.	.	.			7063	10	305030101	41200	12	0	1	2.3	.	.	.	.	.	.	1	.	0	0	8230
1247	DLLG21	091	177	42	.	230.83			3788	10	305030300	41100	15	0	1	4.2	2	.	.	.	.	.	1	.	0	0	7710
1248	DLLG21	092	177	12	.	.			6755	10	305030301	41508	1	0	1	1.6	2	.	.	.	.	.	.	.	0	0	7850
1249	DLLG21	093	177	.	12	.	092.74	176.64	6588	10	305030301	11004	1	.	1	3.1	.	.	.	.	.	.	.	.	0	1	4240
1250	DLLG21	093	177	.	12	.	092.74	176.64	6588	10	305030301	11000	1	.	1	6.5	.	.	.	.	.	.	.	.	0	1	4250
1251	DLLG21	093	177	.	12	.	092.74	176.64	6588	10	305030301	12000	1	.	1	4.1	.	.	.	.	.	.	.	.	0	1	4260
1252	DLLG21	093	177	.	12	.	092.74	176.64	6588	10	305030301	21100	1	.	1	6.1	.	.	.	.	.	.	.	.	0	1	4290
1253	DLLG21	091	177	35	.	231.18			5843	10	305040000	31010	1	.	1	0.8	1	.	.	.	.	.	.	.	0	1	2300
1254	DLLG21	092	177	41	.	230.81	091.18	176.15	2374	10	305040000	41508	1	0	1	1.4	2	.	.	.	.	.	.	.	0	0	7370
1255	DLLG21	092	177	41	6	230.86	091.53	176.88	2565	10	305040000	51113	1	.	1	0.2	2	.	.	.	.	.	.	.	0	1	2380
1256	DLLG21	093	177	4	.	.			1978	10	305040000	41508	1	0	1	0.7	.	.	.	.	.	.	.	.	0	0	7890
1257	DLLG21	093	177	.	12	.			6699	10	305040000	41508	1	.	1	0.7	1	.	.	.	.	.	.	.	0	1	6510
1258	DLLG21	061	192	19	1	231.18			4777	10	305040100	21000	11	.	1	0.1	.	.	.	.	.	.	.	.	0	1	560
1259	DLLG21	092	177	41	.	230.85	091.77	176.84	1898	10	305040100	41100	12	.	1	3.2	1	.	.	.	.	.	0	.	0	1	5960
1260	DLLG21	094	174	35	.	231.04	093.72	173.85	2811	10	305040100	50000	1	.	4	0.6	.	.	.	.	.	.	.	.	0	1	6110
1261	DLLG21	093	177	13	.	231.04	092.43	175.76	1375	10	305040101	41508	1	0	1	1.7	1	.	.	.	.	.	.	.	0	0	1210
1262	DLLG21	093	177	13	.	231.04	092.43	175.76	1375	10	305040101	40300	1	0	1	2.3	1	.	.	.	.	.	.	.	0	0	1220
1263	DLLG21	093	177	13	.	231.04	092.43	175.76	1375	10	305040101	41200	1	0	1	1.0	1	.	.	.	.	.	.	.	0	0	1230
1264	DLLG21	093	177	13	.	.			1402	10	305040101	41100	15	.	1	1.4	1	.	.	.	.	.	.	.	0	1	5950
1265	DLLG21	093	177	16	.	230.73	092.50	176.68	2905	10	305040101	41200	1	.	1	0.7	2	.	.	.	.	.	.	.	0	1	6390
1266	DLLG21	093	177	18	.	230.56	092.05	176.43	7137	10	305040101	11000	10	10	7	2.9	.	.	.	.	.	.	.	.	0	1	7360
1267	DLLG21	093	177	13	.	230.93			1400	10	305040101	51112	1	.	1	0.3	1	.	.	.	.	.	.	.	0	1	7440
1268	DLLG21	094	174	37	18	231.05	093.93	173.44	3053	10	305040101	50120	1	0	1	0.4	1	.	.	.	.	.	.	.	0	1	10
1269	DLLG21	094	174	37	18	231.05	093.93	173.44	3053	10	305040101	41508	1	0	1	1.5	1	.	.	.	.	.	.	.	0	1	20
1270	DLLG21	094	174	34	18	.			2613	10	305040101	42508	15	10	1	0.6	1	.	.	.	.	.	.	.	0	1	2450
1271	DLLG21	094	174	34	18	.			2613	10	305040101	52123	1	.	1	0.1	1	.	.	.	.	.	.	.	0	1	2460
1272	DLLG21	094	174	35	.	231.04	093.72	173.85	2811	10	305040101	42508	15	.	1	0.8	1	.	.	.	.	.	.	.	0	1	6100
1273	DLLG21	096	174	26	.	231.63			3752	10	305040101	31030	1	.	1	1.2	.	.	.	.	.	.	.	.	0	1	2880
1274	DLLG21	093	177	.	12	.			6699	10	305040201	42508	1	.	1	0.3	2	.	.	.	.	.	.	.	0	1	6520

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
1275	DLLG21	092	177	47	12	230.55	091.87	175.87	2985	10	305050104	11000	1	.	1	1.4	.	.	.	.	.	.	.	.	0	1	6230
1276	DLLG21	092	177	47	12	230.55	091.87	175.87	2985	10	305050104	11004	10	10	4	0.2	.	.	.	.	.	.	.	.	0	1	6240
1277	DLLG21	061	192	17	1	232.07			4151	10	307000000	31011	1	.	1	0.8	.	.	.	.	.	.	.	.	0	0	70
1278	DLLG21	093	177	.	12	.			6431	10	307000000	41100	1	0	1	2.9	1	3	.	.	.	.	.	.	0	0	6010
1279	DLLG21	093	177	.	12	.			6699	10	307000000	42508	1	.	1	2.3	1	3	.	.	.	.	.	.	0	1	6490
1280	DLLG21	061	188	18	.	232.05			4207	10	307010000	50100	1	0	1	0.3	.	.	.	.	.	.	.	.	0	1	9020
1281	DLLG21	078	196	15	.	232.18			4103	10	307010000	50100	1	0	1	0.3	.	.	.	.	.	.	.	.	0	1	8940
1282	DLLG21	091	176	43	.	230.76			6475	10	307010000	42400	1	.	1	3.8	2	.	.	.	.	.	1	.	0	1	7200
1283	DLLG21	091	177	43	.	230.77	090.55	176.85	6496	10	307010000	42400	1	.	1	3.2	1	.	.	.	.	.	.	.	0	1	6650
1284	DLLG21	091	777	42	.	230.85	090.60	776.80	7021	10	307010000	21100	1	0	3	1.2	.	.	.	.	.	.	.	.	0	1	9400
1285	DLLG21	092	177	50	12	230.43			3838	10	307010000	42100	1	0	1	5.3	.	.	.	.	.	.	.	.	0	0	7990
1286	DLLG21	092	177	48	15	230.53	091.88	176.52	3549	10	307010000	42400	15	.	1	1.2	2	.	.	.	.	.	.	.	0	1	5720
1287	DLLG21	092	177	47	12	230.55	091.18	176.61	3002	20	307010000	42400	1	.	1	2.8	1	4	.	.	1	.	1	.	0	1	5760
1288	DLLG21	092	177	48	12	230.52	091.16	176.53	3543	10	307010000	42100	1	.	1	2.4	1	3	.	.	1	.	0	.	0	1	6680
1289	DLLG21	092	177	46	6	230.64			2933	10	307010000	42400	15	11	1	2.8	1	.	.	.	.	.	0	.	0	1	7280
1290	DLLG21	093	177	4	.	.			1978	10	307010000	42100	13	11	1	0.8	.	.	.	.	.	.	.	.	0	0	7900
1291	DLLG21	093	177	4	.	.			1978	10	307010000	41200	15	0	1	0.3	2	.	.	.	.	.	.	.	0	0	7950
1292	DLLG21	093	177	4	.	.			1978	10	307010000	31010	1	0	1	0.8	1	.	.	.	.	.	.	.	0	0	7960
1293	DLLG21	093	177	23	12	230.03			6455	10	307010000	41300	1	0	1	1.5	1	.	.	.	.	.	.	.	0	0	9540
1294	DLLG21	093	177	19	.	230.33			2203	10	307010000	42100	1	.	1	1.2	2	.	.	.	.	.	.	.	0	1	7320
1295	DLLG21	093	177	19	.	230.33			2203	10	307010000	41300	15	12	1	1.6	1	.	.	.	.	.	0	.	0	1	7330
1296	DLLG21	093	177	.	.	.			7063	10	307010000	23000	16	0	1	1.8	.	.	.	.	.	.	.	.	0	1	8830
1297	DLLG21	093	177	.	.	.			7063	10	307010000	21411	1	0	1	1.3	.	.	.	.	.	.	.	.	0	1	8840
1298	DLLG21	093	177	.	.	.			7063	10	307010000	42100	1	0	2	4.3	.	.	.	.	1	.	.	.	0	1	8850
1299	DLLG21	093	177	.	.	.			7063	10	307010000	42508	1	0	1	3.5	2	.	.	.	.	.	.	.	0	1	8860
1300	DLLG21	093	177	18	.	230.48			7164	10	307010000	31030	1	0	2	1.6	.	.	.	.	.	.	.	.	0	1	9130
1301	DLLG21	096	174	.	16	.			6313	10	307010000	42100	11	0	1	0.4	.	.	.	.	.	.	.	.	0	1	8980
1302	DLLG21	091	177	42	.	230.83			3788	10	307010401	31010	15	0	1	0.6	1	.	.	.	.	.	.	.	0	0	1820
1303	DLLG21	091	177	42	.	230.83			3788	10	307010401	31030	15	0	1	0.4	2	3	.	.	.	.	.	.	0	0	1830
1304	DLLG21	091	177	43	.	230.77			6474	10	307010401	32077	1	0	2	3.8	1	.	.	.	.	.	.	.	0	0	5100
1305	DLLG21	091	177	43	.	230.77			6474	10	307010401	32010	16	0	1	1.4	2	.	.	.	.	.	.	.	0	0	5110
1306	DLLG21	091	177	43	.	230.77			6474	10	307010401	21411	1	0	1	4.0	.	.	.	.	.	.	.	.	0	0	5120
1307	DLLG21	091	177	43	.	230.77			6474	10	307010401	21219	1	0	1	0.8	.	.	.	.	.	.	.	.	0	0	5130
1308	DLLG21	091	177	43	.	230.77			6474	10	307010401	21100	1	0	2	1.0	.	.	.	.	.	.	.	.	0	0	5140
1309	DLLG21	091	177	43	.	230.77			6474	10	307010401	22201	1	0	2	0.5	.	.	.	.	.	.	.	.	0	0	5150
1310	DLLG21	091	177	42	.	230.83			3788	10	307010401	23000	19	0	1	3.1	.	.	.	.	.	.	.	.	0	0	9560
1311	DLLG21	091	177	42	.	230.83			3788	10	307010401	31010	12	0	1	0.5	.	.	.	.	.	.	.	.	0	0	9570
1312	DLLG21	091	177	45	18	230.67	090.95	176.25	3733	10	307010401	41100	1	0	1	2.5	1	.	.	.	.	.	.	.	0	0	9620
1313	DLLG21	091	177	35	.	231.16	090.90	176.56	5842	10	307010401	21411	17	1	1	1.8	.	.	.	.	.	.	.	.	0	0	9800
1314	DLLG21	091	177	43	.	230.77			7117	10	307010401	42100	12	0	1	3.2	.	.	.	.	.	.	.	.	0	0	9830
1315	DLLG21	091	177	43	.	230.77			7117	10	307010401	42100	15	0	1	1.8	.	.	.	.	.	.	.	.	0	0	9840
1316	DLLG21	091	177	43	.	230.77			7117	10	307010401	21309	1	0	1	1.2	.	.	.	.	.	.	.	.	0	0	9850
1317	DLLG21	091	177	43	.	230.77			7117	10	307010401	32020	16	0	1	0.8	2	.	.	.	.	.	.	.	0	0	9860
1318	DLLG21	091	177	43	.	230.77			7117	10	307010401	22000	1	0	1	0.2	.	.	.	.	.	.	.	.	0	0	9870
1319	DLLG21	091	177	43	.	230.77			7117	10	307010401	42100	1	0	1	3.4	2	.	.	.	.	.	.	.	0	0	9880
1320	DLLG21	091	177	43	.	230.77			7117	10	307010401	42400	12	0	1	1.0	.	3	.	.	1	.	.	.	0	0	9890
1321	DLLG21	091	177	42	.	230.85	090.20	176.55	7020	10	307010401	21100	1	0	4	1.5	.	.	.	.	.	.	.	.	0	1	9920
1322	DLLG21	092	177	27	3	231.57	091.84	176.37	1618	10	307010401	41100	1	0	1	5.0	1	.	.	.	.	.	.	.	0	0	1970
1323	DILG21	092	177	.	12	.			6755	10	307010401	41508	1	0	1	0.9	2	.	.	.	.	.	.	.	0	0	3860

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SBG	QUAHT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
1324	DLLG21	092	177	47	.	230.55	091.05	176.21	2977	10	307010401	41100	1	0	1	2.3	1	.	.	.	.	.	.	.	0	0	7530
1325	DLLG21	092	177	47	.	230.55	091.05	176.21	2977	10	307010401	42100	1	0	1	2.0	1	.	.	.	.	.	.	.	0	0	7540
1326	DLLG21	092	177	43	6	230.78	091.91	176.79	2162	30	307010401	41100	1	0	1	4.9	2	.	.	.	.	.	.	.	0	0	7560
1327	DLLG21	092	177	43	6	230.78	091.91	176.79	2162	10	307010401	42100	1	0	1	2.9	2	.	.	.	.	.	.	.	0	0	7570
1328	DLLG21	092	177	.	.	231.30	091.70	176.85	6283	10	307010401	31030	1	0	1	1.8	1	.	.	.	1	.	.	.	0	0	9610
1329	DLLG21	092	177	48	12	230.52	091.27	176.50	3545	10	307010401	42100	1	0	1	2.0	1	.	.	.	1	.	.	.	0	0	9630
1330	DLLG21	092	177	49	12	.			7116	10	307010401	11021	1	0	1	0.9	.	.	.	.	.	.	.	.	0	0	9660
1331	DLLG21	092	177	49	12	.			7116	10	307010401	31010	1	0	1	0.7	1	.	.	.	.	.	.	.	0	0	9670
1332	DLLG21	092	177	49	12	.			7116	10	307010401	31010	1	0	1	0.8	2	.	.	.	.	.	.	.	0	0	9680
1333	DLLG21	092	177	49	12	.			7116	10	307010401	31030	1	0	1	1.0	1	.	.	.	1	.	.	.	0	0	9690
1334	DLLG21	092	177	49	12	.			7116	10	307010401	42101	14	0	1	0.4	.	3	.	.	1	.	.	.	0	0	9720
1335	DLLG21	092	177	49	12	230.47			7116	10	307010401	41200	1	0	1	0.3	2	.	.	.	1	.	.	.	0	0	9900
1336	DLLG21	092	177	49	12	230.50			7116	10	307010401	41300	1	0	1	1.2	2	.	.	.	1	.	.	.	0	0	9990
1337	DLLG21	092	177	44	6	230.74	091.90	176.89	2583	10	307010401	31030	1	.	1	1.9	2	4	.	.	.	.	.	.	0	1	2110
1338	DLLG21	092	177	45	6	230.55	091.71	175.93	2755	10	307010401	32077	1	.	1	3.8	1	.	.	.	.	.	.	.	0	1	3760
1339	DLLG21	092	177	48	12	230.50			3548	10	307010401	23000	1	0	1	3.2	.	.	.	.	.	.	.	.	0	1	9030
1340	DLLG21	092	177	49	12	230.50			7116	10	307010401	42508	1	0	1	2.3	1	.	.	.	1	.	.	.	0	1	9040
1341	DLLG21	093	177	17	.	.			2199	10	307010401	41508	1	0	1	1.1	1	.	.	.	.	.	.	.	0	0	1240
1342	DLLG21	093	177	14	.	230.90	092.74	176.70	1968	10	307010401	42400	1	0	1	6.4	2	.	.	.	.	.	.	.	0	0	1250
1343	DLLG21	093	177	14	.	230.90	092.74	176.70	1968	10	307010401	25000	18	0	1	0.2	2	.	.	.	.	.	.	.	0	0	1260
1344	DLLG21	093	177	16	.	230.73	092.50	176.68	2905	10	307010401	41300	1	0	1	2.5	1	.	.	.	.	.	.	.	0	0	1270
1345	DLLG21	093	177	16	.	230.73	092.50	176.68	2905	10	307010401	41200	1	0	1	1.0	1	.	.	.	.	.	.	.	0	0	1280
1346	DLLG21	093	177	16	.	230.71	092.40	176.80	2909	10	307010401	42300	12	0	1	0.1	2	.	.	.	.	.	.	.	0	0	1290
1347	DLLG21	093	177	16	.	230.71	092.40	176.80	2909	10	307010401	41508	1	0	1	0.9	2	.	.	.	.	.	.	.	0	0	1300
1348	DLLG21	093	177	16	.	230.71	092.40	176.80	2909	10	307010401	42100	1	0	1	2.9	1	3	.	.	1	.	.	.	0	0	1310
1349	DLLG21	093	177	16	.	230.71	092.40	176.80	2909	10	307010401	42400	1	0	1	3.2	1	3	.	.	1	.	.	.	0	0	1320
1350	DLLG21	093	177	16	.	230.71	092.40	176.80	2909	10	307010401	42400	1	0	1	3.2	2	3	.	.	1	.	.	.	0	0	1330
1351	DLLG21	093	177	15	.	230.87	092.70	176.75	2902	10	307010401	42400	1	0	1	4.2	2	4	.	.	1	.	.	.	0	0	1340
1352	DLLG21	093	177	15	.	230.87	092.70	176.75	2902	10	307010401	31030	1	0	1	1.8	2	.	.	.	.	.	.	.	0	0	1350
1353	DLLG21	093	177	15	.	230.87	092.70	176.75	2902	10	307010401	32020	3	0	1	0.7	2	.	.	.	.	.	.	.	0	0	1360
1354	DLLG21	093	177	.	.	.			7060	10	307010401	42100	1	0	1	5.3	2	.	.	.	.	.	.	.	0	0	3670
1355	DLLG21	093	177	.	.	.			7060	10	307010401	42100	1	0	1	5.3	1	1	.	.	.	.	.	.	0	0	3680
1356	DLLG21	093	177	.	.	.			7060	10	307010401	41200	1	0	1	1.0	2	.	.	.	.	.	.	.	0	0	3690
1357	DLLG21	093	177	.	.	.			7060	10	307010401	31030	1	0	1	1.1	1	.	.	.	.	.	.	.	0	0	3700
1358	DLLG21	093	177	.	.	.			7060	10	307010401	41300	1	0	1	2.7	2	.	.	.	.	.	.	.	0	0	3710
1359	DLLG21	093	177	.	.	.			7060	10	307010401	42400	1	0	1	7.0	2	4	.	.	.	.	.	.	0	0	3720
1360	DLLG21	093	177	.	.	.			7060	10	307010401	23000	16	0	1	2.1	.	.	.	.	.	.	.	.	0	0	3730
1361	DLLG21	093	177	18	.	230.48			1946	10	307010401	11001	1	0	1	1.2	.	.	.	.	.	.	.	.	0	0	9550
1362	DLLG21	093	177	16	.	230.76	092.48	175.76	2375	10	307010401	42400	15	0	1	5.1	1	.	.	.	.	.	1	.	0	0	9580
1363	DLLG21	093	177	16	.	230.76	092.48	175.76	2375	10	307010401	42400	13	12	1	3.0	1	.	.	.	.	.	.	.	0	0	9590
1364	DLLG21	093	177	16	.	230.76	092.48	175.76	2375	10	307010401	42400	15	0	1	1.9	2	.	.	.	.	.	.	.	0	0	9600
1365	DLLG21	093	177	.	.	.			7060	10	307010401	41200	1	0	1	0.8	2	.	.	.	1	.	.	.	0	0	9730
1366	DLLG21	093	177	.	.	.			7060	10	307010401	41300	1	0	1	1.9	2	.	.	.	.	.	.	.	0	0	9740
1367	DLLG21	093	177	.	.	.			7060	10	307010401	42100	12	0	1	1.5	1	.	.	.	1	.	.	.	0	0	9750
1368	DLLG21	093	177	.	.	.			7063	10	307010401	41100	1	0	1	2.2	1	.	.	.	.	.	.	.	0	0	9920
1369	DLLG21	093	177	.	.	.			7063	10	307010401	41100	1	0	1	2.2	2	.	.	.	.	.	.	.	0	0	9930
1370	DLLG21	093	177	.	.	.			7063	10	307010401	42400	12	0	1	2.2	1	.	.	.	.	.	.	.	0	0	9940
1371	DLLG21	093	177	.	.	.			7063	10	307010401	41300	1	0	1	1.1	2	.	.	.	1	.	.	.	0	0	9950
1372	DLLG21	093	177	.	.	.			7063	10	307010401	42400	12	0	1	1.9	2	.	.	.	.	.	.	.	0	0	9960

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	EUPT	BURN	JUVCOUNT	BREAK	BUTCH	FLAKE	OTHER	REX	BONEUM
1373	DLLG21	093	177	18	.	230.53			7164	10	307010401	23000	1	0	1	3.1	.	.	.	.	.	.	.	.	0	1	30
1374	DLLG21	093	177	.	.	.			1978	10	307010401	31010	1	.	.	0.9	2	.	.	.	.	.	.	.	0	1	2960
1375	DLLG21	093	177	17	.	230.61	091.90	176.05	2918	10	307010401	42508	15	0	1	1.8	1	.	.	.	.	.	.	.	0	1	8800
1376	DLLG21	093	177	.	.	.			7063	10	307010401	42100	1	0	1	1.1	2	.	.	.	.	.	.	.	0	1	8870
1377	DLLG21	093	177	.	.	.			7063	10	307010401	42508	1	0	1	3.6	2	.	.	.	.	.	.	.	0	1	8900
1378	DLLG21	093	179	.	18	.			6174	10	307010401	42300	11	0	1	0.2	2	.	.	.	.	.	.	.	0	1	0
1379	DLLG21	094	174	38	18	231.03	093.31	173.12	3249	10	307010401	41300	1	0	1	2.5	1	.	.	.	.	.	.	.	0	0	9760
1380	DLLG21	094	174	38	18	231.03	093.31	173.12	3249	10	307010401	41508	1	0	1	1.1	1	.	.	.	.	.	.	.	0	0	9770
1381	DLLG21	094	174	38	18	231.03	093.31	173.12	3249	10	307010401	41200	12	0	1	0.8	2	.	.	.	.	.	.	.	0	0	9780
1382	DLLG21	094	174	40	.	.			6594	10	307010401	41100	1	.	1	4.5	1	.	.	.	.	.	.	.	0	1	4340
1383	DLLG21	094	174	40	.	.			6594	10	307010401	41200	1	.	1	0.9	1	.	.	.	.	.	.	.	0	1	4350
1384	DLLG21	091	177	33	17	231.28	090.90	176.97	5840	10	307010501	42100	15	12	1	51.2	1	.	.	.	.	.	.	.	0	1	6270
1385	DLLG21	092	177	43	6	230.75	091.87	176.73	2332	10	307010501	42200	1	.	1	1.5	1	.	.	.	.	.	.	.	0	1	5660
1386	DLLG21	093	177	.	12	.			6699	10	307010501	42400	15	.	1	0.7	1	.	.	.	.	.	.	.	0	1	6540
1387	DLLG21	093	177	.	.	.			7060	10	307010501	42100	1	.	7	1.3	2	.	.	.	.	.	0	.	0	1	7390
1388	DLLG21	061	188	19	1	231.98			4397	10	307020000	52113	1	.	1	0.3	.	.	.	.	.	.	.	.	0	1	6730
1389	DLLG21	061	192	20	1	231.93			4791	10	307020100	41100	11	1	1	5.2	1	.	.	.	.	.	.	.	0	0	7780
1390	DLLG21	092	177	42	6	230.80	091.98	176.81	2146	10	307020101	42400	1	.	1	6.6	1	4	.	.	1	.	.	.	0	1	6690
1391	DLLG21	061	188	17	1	232.10			4167	10	307030000	50100	1	0	1	0.2	.	.	.	.	.	.	.	.	0	1	8660
1392	DLLG21	092	177	46	6	230.61	091.89	176.61	2932	10	307030000	42100	12	0	1	0.9	.	.	.	.	.	.	.	.	0	1	8670
1393	DLLG21	092	177	36	.	.			1852	10	308010100	50112	1	0	1	1.2	1	.	.	.	.	.	.	.	0	0	7290
1394	DLLG21	092	177	35	15	231.15	091.80	176.21	1836	10	308010100	41508	1	.	1	5.1	1	.	.	.	.	.	.	.	0	1	7050
1395	DLLG21	094	174	35	18	231.04	093.31	173.86	2805	10	308010100	42400	15	0	1	14.5	2	.	.	.	.	.	.	.	0	0	7300
1396	DLLG21	092	177	35	.	.			1833	10	308010101	51009	1	.	1	0.3	1	.	.	.	.	.	1	.	0	1	7580
1397	DLLG21	061	188	19	1	231.97			4401	10	309000000	40000	13	2	1	1.1	.	.	.	.	.	.	.	.	0	0	600
1398	DLLG21	093	177	18	12	230.52	092.05	175.87	6484	10	309020000	41200	1	.	2	0.1	2	.	.	.	.	.	.	.	0	1	7080
1399	DLLG21	093	177	18	12	230.52	092.05	175.87	6484	10	309020000	42508	1	.	2	0.3	1	.	.	.	.	.	.	.	0	1	7090
1400	DLLG21	093	177	18	12	230.52	092.05	175.87	6484	10	309020000	42508	1	.	1	0.1	2	.	.	.	.	.	.	.	0	1	7100
1401	DLLG21	093	177	18	12	230.52	092.05	175.87	6484	10	309020000	42400	15	.	2	0.2	1	.	.	.	.	.	.	.	0	1	7110
1402	DLLG21	093	177	18	12	230.52	092.05	175.87	6484	10	309020000	41300	1	.	1	0.2	2	.	.	.	.	.	.	.	0	1	7120
1403	DLLG21	093	177	18	12	230.52	092.05	175.87	6484	10	309020000	41300	1	.	2	0.4	1	.	.	.	.	.	.	.	0	1	7130
1404	DLLG21	090	177	34	.	231.20			6972	10	310010301	41200	1	0	1	0.1	1	.	.	.	.	.	.	.	0	1	9000
1405	DLLG21	090	177	32	.	231.35			3983	10	310010301	41300	1	0	1	0.3	1	.	.	.	.	.	.	.	0	1	9010
1406	DLLG21	092	177	38	5	231.03	091.28	176.53	1866	10	310010301	23000	22	3	1	0.3	.	.	.	.	.	.	.	.	0	1	8680
1407	DLLG21	092	177	12	.	.			6755	10	310010301	41100	1	0	1	0.6	2	.	.	.	.	.	.	.	0	1	8990
1408	DLLG21	092	177	36	.	.			1852	10	310010301	41100	12	0	1	0.3	2	.	.	.	.	.	.	.	0	1	9060
1409	DLLG21	092	177	36	.	.			1852	10	310010301	41300	12	0	1	0.2	2	.	.	.	.	.	.	.	0	1	9070
1410	DLLG21	093	177	.	.	231.93			1978	10	310010301	41100	1	0	1	0.6	1	.	.	.	.	.	.	.	0	1	8690
1411	DLLG21	093	177	.	.	231.93			1978	10	310010301	41300	1	0	1	0.4	1	.	.	.	.	.	.	.	0	1	8700
1412	DLLG21	093	177	.	.	231.93			1978	10	310010301	41200	1	0	1	0.2	1	.	.	.	.	.	.	.	0	1	8710
1413	DLLG21	999	999	.	.	.			7125	10	310010301	31030	1	0	1	0.3	1	.	.	.	.	.	.	.	0	1	8890
1414	DLLG21	092	177	36	.	.			1852	10	310103001	31010	12	0	1	0.1	2	.	.	.	.	.	.	.	0	1	9080
1415	DLLG21	096	174	.	16	.			6313	10	311000000	90000	10	10	3	0.4	.	.	.	.	.	.	.	.	0	0	3990
1416	DLLG21	078	196	16	.	232.13			4103	10	317000000	41100	1	.	1	0.1	2	.	.	.	.	.	.	.	0	1	6120
1417	DLLG21	092	177	40	6	230.90			1888	10	317000000	42100	1	.	1	0.3	2	.	.	.	.	.	.	.	0	1	6200
1418	DLLG21	092	177	40	6	230.90			1888	10	317000000	42400	12	.	1	0.2	2	.	.	.	.	.	.	.	0	1	6210
1419	DLLG21	092	177	40	6	230.90			1888	10	317000000	31010	12	.	1	0.2	1	.	.	.	.	.	.	.	0	1	6220
1420	DLLG21	093	177	12	.	.			6775	10	317000000	41100	1	.	1	0.2	2	.	.	.	.	.	.	.	0	1	5860
1421	DLLG21	093	177	12	.	.			6775	10	317000000	41300	1	.	1	0.1	1	.	.	.	.	.	.	.	0	1	5870

OBS	SITE	NUNIT	BUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
1422	DLLG21	093	177	12	.	.			6775	10	317000000	41508	1	.	1	0.60	2	.	.	.	.	.	.	.	0	1	5880
1423	DLLG21	093	177	12	.	231.13			1295	10	317000000	21411	19	1	1	0.10	.	.	.	.	.	.	.	.	0	1	6250
1424	DLLG21	093	177	18	12	230.52	092.02	175.90	7136	10	317000000	11001	1	0	1	0.10	.	.	.	.	.	.	.	.	0	1	8730
1425	DLLG21	091	176	41	.	230.87			3787	10	317040000	21411	1	.	1	1.50	.	.	.	.	.	.	.	.	0	1	6010
1426	DLLG21	091	176	41	.	230.87			3787	10	317040000	23000	1	.	1	1.20	.	.	.	.	.	.	.	.	0	1	6020
1427	DLLG21	091	176	41	.	230.87			3787	10	317040000	42100	1	.	1	0.50	1	.	.	.	.	.	.	.	0	1	6040
1428	DLLG21	091	176	41	.	230.87			3787	10	317040000	42100	1	.	1	0.50	2	.	.	.	.	.	.	.	0	1	6050
1429	DLLG21	091	176	41	.	230.87			3787	10	317040000	41100	1	.	1	1.60	2	.	.	.	.	.	.	.	0	1	6060
1430	DLLG21	091	176	41	.	230.87			3787	10	317040000	42508	1	.	1	0.70	1	.	.	.	.	.	.	.	0	1	6070
1431	DLLG21	091	176	41	.	230.87			3787	10	317040000	42400	1	.	1	1.20	1	.	.	.	.	.	.	.	0	1	6080
1432	DLLG21	091	176	41	.	230.87			3787	10	317040000	41300	1	.	1	1.40	2	.	.	.	.	.	.	.	0	1	6090
1433	DLLG21	091	176	41	.	230.81			6483	10	317040000	22000	1	.	2	0.10	.	.	.	.	.	.	.	.	0	1	6320
1434	DLLG21	091	176	41	.	230.87			6483	10	317040000	22000	12	.	2	0.10	.	.	.	.	.	.	.	.	0	1	6330
1435	DLLG21	091	176	41	.	230.87			6483	10	317040000	23000	17	6	1	0.10	1	.	.	.	.	.	.	.	0	1	6340
1436	DLLG21	091	176	41	.	230.87			6483	10	317040000	31010	15	4	1	0.20	2	.	.	.	.	.	.	.	0	1	6350
1437	DLLG21	091	176	41	.	230.87			6483	10	317040000	51003	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	6370
1438	DLLG21	092	177	50	12	230.43			3838	10	317040000	41300	1	0	1	0.30	2	.	.	.	.	.	.	.	0	0	8000
1439	DLLG21	092	177	41	.	230.86	091.09	175.83	2161	10	317040400	12000	12	13	1	0.30	2	.	.	.	.	.	.	.	0	1	7250
1440	DLLG21	091	176	41	.	230.87			6483	10	317040402	22000	19	.	3	0.10	.	.	.	.	.	.	.	.	0	1	6310
1441	DLLG21	091	176	41	.	230.87			6483	10	317040402	41508	1	.	1	0.80	2	.	.	.	.	.	.	.	0	1	6360
1442	DLLG21	092	177	41	.	230.86	091.09	175.83	2161	10	317040402	11000	1	.	1	2.60	.	.	.	.	.	.	.	.	0	1	6860
1443	DLLG21	092	177	41	.	230.86	091.09	175.83	2161	10	317040402	11004	18	10	1	0.40	2	.	.	.	.	.	.	.	0	1	6870
1444	DLLG21	092	177	41	.	230.86	091.09	175.83	2161	10	317040402	12000	1	.	1	0.50	2	.	.	.	.	.	.	.	0	1	6880
1445	DLLG21	092	177	42	6	230.81	091.00	175.86	2145	10	317040402	25000	16	10	1	0.10	.	.	.	.	.	.	.	.	0	1	6900
1446	DLLG21	092	177	42	6	230.81	090.90	175.86	2145	10	317040402	41200	1	.	1	0.30	1	.	.	.	.	.	.	.	0	1	6910
1447	DLLG21	092	177	42	6	230.81	091.00	175.86	2145	10	317040402	41300	1	.	1	1.40	1	.	.	.	.	.	.	.	0	1	6920
1448	DLLG21	092	177	42	6	230.81	091.00	175.86	2145	10	317040402	41100	1	.	1	1.60	1	.	.	.	.	.	.	.	0	1	6930
1449	DLLG21	092	177	42	6	230.81	091.00	175.86	2145	10	317040402	31010	1	.	1	0.30	1	.	.	.	.	.	.	.	0	1	6940
1450	DLLG21	092	177	42	6	230.81	091.00	175.86	2145	10	317040402	31030	1	.	1	0.40	1	.	.	.	.	.	.	.	0	1	6950
1451	DLLG21	092	177	42	6	230.81	091.00	175.86	2145	10	317040402	31030	1	.	1	0.40	2	.	.	.	.	.	.	.	0	1	6960
1452	DLLG21	092	177	42	6	230.81	091.00	175.86	2145	10	317040402	25000	12	.	2	0.10	1	.	.	.	.	.	.	.	0	1	7000
1453	DLLG21	061	192	20	1	231.93			4792	10	318000000	90000	13	11	1	0.50	.	.	.	.	.	.	.	.	0	1	610
1454	DLLG21	092	177	36	.	.			1852	10	318000000	50000	1	0	1	0.40	.	.	.	.	.	.	.	.	0	1	9110
1455	DLLG21	094	174	35	18	231.04	093.31	173.86	2805	10	318000000	80002	10	10	15	1.50	.	.	.	.	.	.	.	.	0	0	7310
1456	DLLG21	094	174	35	18	231.04	093.31	173.86	2805	10	318000000	40000	10	10	12	7.90	.	.	.	.	.	.	.	.	0	0	7320
1457	DLLG21	061	188	20	1	231.93			4379	10	319000000	40000	19	11	2	0.80	.	.	.	.	.	.	.	.	0	1	7510
1458	DLLG21	061	188	17	1	232.10			4172	10	319000000	41100	11	1	1	2.10	.	.	.	.	.	.	.	.	0	1	8950
1459	DLLG21	061	188	18	1	230.50			4209	10	319000000	50103	1	0	1	0.20	.	.	.	.	.	.	.	.	0	1	9050
1460	DLLG21	061	192	17	1	232.07			4151	10	319000000	40000	10	10	7	2.50	.	.	.	.	.	.	1	.	0	0	10
1461	DLLG21	061	192	17	1	232.07			4148	10	319000000	21000	1	0	1	0.90	.	.	.	.	.	.	.	.	0	0	9910
1462	DLLG21	091	176	41	.	230.87			3787	10	319000000	40000	19	11	1	1.50	.	.	.	.	.	.	.	.	0	1	6030
1463	DLLG21	092	177	49	.	.			7116	10	319000000	52113	1	0	1	0.10	1	.	.	.	.	.	.	.	0	0	7360
1464	DLLG21	092	177	49	12	230.50			7116	10	319000000	42400	13	11	1	3.40	.	.	.	.	1	.	.	.	0	0	9980
1465	DLLG21	092	177	50	.	230.43			3838	10	319000000	40000	13	11	1	0.90	.	.	.	.	.	.	.	.	0	1	3900
1466	DLLG21	092	177	36	.	.			1852	10	319000000	50000	1	0	1	0.10	.	.	.	.	.	.	.	.	0	1	9120
1467	DLLG21	093	177	.	12	.			6775	10	319000000	40000	14	0	1	1.20	.	.	.	.	.	.	.	.	0	0	4160
1468	DLLG21	093	177	16	6	230.73	092.12	176.82	3727	10	319000000	90000	13	10	3	1.30	.	.	.	.	.	.	.	.	0	1	1480
1469	DLLG21	093	177	.	12	.	092.74	176.64	6588	10	319000000	10002	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	4270
1470	DLLG21	093	177	.	12	.			6699	10	319000000	11012	16	3	1	0.30	.	.	.	.	.	.	.	.	0	1	6570

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
1471	DLLG21	094	174	37	.	.			6208	10	319000000	42400	13	9	1	2.20	.	.	.	.	.	.	.	.	0	0	2300
1472	DLLG21	094	174	29	.	231.48			2445	10	319000000	40000	13	11	1	1.00	.	.	.	.	.	.	.	.	0	1	2550
1473	DLLG21	094	174	28	.	.			2433	10	319000000	40000	13	10	1	0.30	.	.	.	.	.	.	.	.	0	1	2660
1474	DLLG21	094	175	25	.	.			6195	10	319000000	42400	13	13	2	2.21	.	.	.	.	.	.	.	.	0	0	3210
1475	DLLG21	096	174	32	.	.	095.56	173.53	7118	10	319000000	50100	1	0	1	0.30	.	.	.	.	.	.	.	.	0	1	8820
1476	DLLG21	999	999	.	.	.			7125	10	319000000	42100	14	0	1	1.20	.	.	.	.	1	.	1	.	0	0	9640
1477	DLLG21	061	188	17	1	232.07			4176	10	320000000	41100	11	.	1	0.60	.	.	.	.	.	.	.	.	0	0	790
1478	DLLG21	061	188	19	1	231.97			4396	10	320000000	41100	11	2	1	1.00	.	.	.	.	.	.	.	.	0	0	800
1479	DLLG21	061	188	18	1	232.03			4211	10	320000000	40000	24	0	2	0.30	.	.	.	.	.	.	.	.	0	1	130
1480	DLLG21	061	188	20	1	231.93			4379	10	320000000	40000	19	11	1	0.10	.	.	.	.	.	.	.	.	0	1	7500
1481	DLLG21	061	192	17	1	232.07			4150	10	320000000	21100	1	0	1	0.50	.	.	.	.	.	.	.	.	0	0	9810
1482	DLLG21	061	192	19	1	231.97			4778	10	320000000	21100	1	0	1	0.50	.	.	.	.	1	.	.	.	0	0	9820
1483	DLLG21	061	192	16	1	232.13			4346	10	320000000	32070	10	10	1	0.70	.	.	.	.	.	.	.	.	0	1	7630
1484	DLLG21	091	177	43	.	230.77			7117	10	320000000	41100	13	11	1	1.40	.	.	.	.	.	.	.	.	0	0	8080
1485	DLLG21	091	177	42	.	230.85	090.60	176.80	7021	10	320000000	23000	10	0	1	0.20	.	.	.	.	.	.	.	.	0	1	9440
1486	DLLG21	091	177	46	.	230.65	090.85	176.30	7037	10	320000000	50100	1	0	4	0.60	.	.	.	.	.	.	.	.	0	1	9750
1487	DLLG21	091	177	46	.	230.65	090.85	176.30	7037	10	320000000	52155	1	0	1	0.05	.	.	.	.	.	.	.	.	0	1	9760
1488	DLLG21	091	177	46	.	230.75	090.85	176.30	7157	10	320000000	50100	1	0	4	0.60	.	.	.	.	.	.	.	.	0	1	9800
1489	DLLG21	091	177	44	.	230.75	090.85	176.30	7036	10	320000000	90000	10	10	2	0.10	.	.	.	2	.	.	.	.	0	1	9820
1490	DLLG21	091	177	42	.	230.85	090.20	176.55	7020	10	320000000	21002	1	0	1	0.10	.	.	.	.	.	.	.	.	0	1	9930
1491	DLLG21	092	177	33	17	231.27			1797	10	320000000	90000	10	10	1	2.00	.	.	.	.	.	.	.	.	0	0	2020
1492	DLLG21	092	177	21	2	231.85			1564	10	320000000	41100	19	0	1	1.50	.	.	.	.	.	.	.	.	0	0	2160
1493	DLLG21	092	177	28	3	231.53			1623	10	320000000	90000	10	10	1	0.60	.	.	.	.	.	.	.	.	0	0	2260
1494	DLLG21	092	177	43	6	230.78	091.91	176.79	2162	10	320000000	25000	11	0	1	0.20	.	.	.	.	.	.	.	.	0	0	7580
1495	DLLG21	092	177	12	.	.			6755	10	320000000	21100	1	0	1	0.30	.	.	.	.	.	.	.	.	0	0	9650
1496	DLLG21	092	177	49	12	.			7116	10	320000000	41300	13	0	1	1.00	1	.	.	.	.	.	.	.	0	0	9700
1497	DLLG21	092	177	42	6	230.81	091.00	175.86	2145	10	320000000	22000	1	.	4	0.20	.	.	.	.	.	.	.	.	0	1	6970
1498	DLLG21	092	177	42	6	230.81	091.00	175.86	2145	10	320000000	22000	12	.	2	0.10	.	.	.	.	.	.	.	.	0	1	6980
1499	DLLG21	092	177	42	6	230.81	091.00	175.86	2145	10	320000000	22000	19	.	1	0.10	.	.	.	.	.	.	.	.	0	1	6990
1500	DLLG21	092	177	42	6	230.81	091.00	175.86	2145	10	320000000	21100	1	.	2	0.30	.	.	.	.	.	.	.	.	0	1	7010
1501	DLLG21	092	177	42	6	230.81	091.00	175.86	2145	10	320000000	21200	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	7020
1502	DLLG21	092	177	42	6	230.81	091.00	175.86	2145	10	320000000	21300	1	.	2	0.30	.	.	.	.	.	.	.	.	0	1	7030
1503	DLLG21	093	177	.	12	.			6775	10	320000000	42400	13	11	1	1.00	1	.	.	.	.	.	.	.	0	0	4150
1504	DLLG21	093	177	.	.	.			7063	10	320000000	31010	1	0	1	0.70	2	.	.	.	.	.	.	.	0	0	9970
1505	DLLG21	093	177	14	.	230.83	092.50	176.50	1503	10	320000000	90000	13	10	1	0.20	.	.	.	.	.	.	.	.	0	1	1540
1506	DLLG21	093	177	.	12	.			6699	10	320000000	41300	14	.	1	0.20	1	.	.	.	.	.	.	.	0	1	6560
1507	DLLG21	093	177	.	12	.			6699	10	320000000	90000	10	10	2	0.30	.	.	.	.	.	.	.	.	0	1	6580
1508	DLLG21	093	177	.	.	231.93			1978	10	320000000	42508	15	0	1	1.10	.	.	.	.	.	.	.	.	0	1	8720
1509	DLLG21	093	177	.	.	.			7063	10	320000000	42508	1	0	2	0.30	.	.	.	.	.	.	.	.	0	1	8960
1510	DLLG21	093	177	18	.	230.48			7164	10	320000000	31010	1	0	1	0.50	.	.	.	.	.	.	.	.	0	1	9140
1511	DLLG21	093	177	18	.	230.48			7164	10	320000000	31010	12	0	1	0.30	.	.	.	.	.	.	.	.	0	1	9150
1512	DLLG21	094	174	31	18	231.21	093.38	173.14	6487	10	320000000	23000	16	0	2	1.90	.	.	.	.	.	.	.	.	0	0	6420
1513	DLLG21	094	174	31	18	231.21	093.38	173.14	6487	10	320000000	22000	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	6430
1514	DLLG21	096	174	32	18	.			7072	10	320000000	40000	19	11	1	0.30	.	.	.	.	.	.	.	.	0	1	5250
1515	DLLG21	061	189	27	2	231.57			4981	10	321000000	40000	13	2	1	0.20	.	.	.	.	.	.	.	.	0	0	570
1516	DLLG21	090	177	35	.	231.20	088.93	176.30	7005	10	321000000	42100	14	0	1	0.10	.	.	.	.	.	.	.	.	0	1	9890
1517	DLLG21	092	177	36	.	.			1852	10	321000000	31013	13	0	1	0.10	.	.	.	.	.	.	.	.	0	1	9090
1518	DLLG21	093	177	.	.	.			7063	10	321000000	22000	1	0	4	0.30	.	.	.	.	.	.	.	.	0	0	8240
1519	DLLG21	093	177	.	.	.			7060	10	321000000	42400	12	13	1	0.20	2	.	.	.	.	.	.	.	0	1	7400

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BREAK	BTACH	PLAKE	OTHER	REX	BONEUM
1520	DLLG21	093	177	.	.	.			1978	10	322000000	22200	1	.	1	0.10	1	.	.	.	.	.	.	.	0	1	2980
1521	DLLG21	061	188	81	70	232.07			4176	10	400000000	90000	10	10	82	70.50	.	.	.	.	.	.	.	.	0	0	730
1522	DLLG21	061	188	18	1	232.03			4200	10	400000000	11050	19	10	1	1.90	.	.	.	.	.	.	.	.	0	0	850
1523	DLLG21	061	188	17	1	232.07			4170	10	400000000	21000	19	0	1	0.05	.	.	.	.	.	.	.	.	0	0	1100
1524	DLLG21	061	189	31	16	231.33			2685	10	400000000	21500	19	0	2	0.20	.	.	.	.	.	.	.	.	0	0	1130
1525	DLLG21	061	189	31	16	231.33			2685	10	400000000	21225	19	0	1	0.50	.	.	.	.	.	.	.	.	0	0	1140
1526	DLLG21	061	189	31	16	231.33			2685	10	400000000	90000	10	10	8	2.90	.	.	.	.	.	.	.	.	0	0	1150
1527	DLLG21	061	189	31	16	231.33			2685	10	400000000	21500	19	0	1	0.20	.	.	.	.	.	.	.	.	0	0	1190
1528	DLLG21	061	189	31	16	231.33			2685	10	400000000	90000	10	10	2	1.20	.	.	.	.	.	.	.	.	0	1	5770
1529	DLLG21	061	192	21	2	231.87			5017	10	400000000	90000	10	10	1	0.40	.	.	.	.	.	.	.	.	0	0	180
1530	DLLG21	061	192	19	1	231.97			4782	10	400000000	90000	10	10	1	1.90	.	.	.	.	.	.	.	.	0	0	250
1531	DLLG21	061	192	19	1	231.97			4782	10	400000000	90000	10	10	1	0.20	.	.	.	.	.	.	.	.	0	0	280
1532	DLLG21	061	192	19	1	231.97			4779	10	400000000	10000	1	0	1	0.20	.	.	.	.	.	.	.	.	0	0	390
1533	DLLG21	061	192	28	.	231.49	060.40	190.08	4998	10	400000000	21000	18	.	1	0.20	.	.	.	.	.	.	.	.	0	0	510
1534	DLLG21	075	184	25	3	231.68			3633	10	400000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	1940
1535	DLLG21	078	196	25	.	231.68			5067	10	400000000	21225	19	0	1	0.10	.	.	.	.	.	.	.	.	0	1	1100
1536	DLLG21	090	177	31	.	231.38			3980	10	400000000	90000	10	10	1	0.01	.	.	.	.	.	.	.	.	0	1	1760
1537	DLLG21	090	177	33	15	231.28			3950	10	400000000	22000	10	10	3	0.20	.	.	.	.	.	.	.	.	0	1	1790
1538	DLLG21	090	177	33	15	231.28			3950	10	400000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	1810
1539	DLLG21	090	177	42	.	230.85	089.85	176.30	7040	10	400000000	22000	10	10	6	0.40	.	.	.	.	.	.	.	.	0	1	9660
1540	DLLG21	090	177	42	.	230.85	089.85	176.30	7040	10	400000000	90000	10	10	2	0.20	.	.	.	.	.	.	.	.	0	1	9670
1541	DLLG21	091	176	41	.	230.87			6483	10	400000000	21002	1	0	3	0.60	.	.	.	.	.	.	.	.	0	0	6570
1542	DLLG21	091	176	41	.	230.87			6483	10	400000000	22000	1	0	19	1.20	.	.	.	.	.	.	.	.	0	0	6580
1543	DLLG21	091	176	41	.	230.87			6483	10	400000000	22000	1	0	50	2.20	.	.	.	.	.	.	.	.	0	0	6590
1544	DLLG21	091	176	43	.	230.78			6475	10	400000000	21506	19	.	1	0.20	.	.	.	.	.	.	.	.	0	1	7190
1545	DLLG21	091	176	41	.	230.86			7022	10	400000000	90000	10	10	10	0.05	.	.	.	.	.	.	.	.	0	1	9560
1546	DLLG21	091	177	42	.	230.83			3788	10	400000000	21500	19	0	1	0.10	.	.	.	.	.	.	.	.	0	0	1880
1547	DLLG21	091	177	42	.	230.83			3788	10	400000000	61001	19	0	2	0.05	.	.	.	.	.	.	.	.	0	0	1890
1548	DLLG21	091	177	43	.	230.77			6474	10	400000000	21506	1	0	1	0.20	.	.	.	.	.	.	.	.	0	0	5160
1549	DLLG21	091	177	43	.	230.77			6474	10	400000000	21225	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	5170
1550	DLLG21	091	177	43	.	230.77			6474	10	400000000	21504	1	0	1	0.30	.	.	.	.	.	.	.	.	0	0	5180
1551	DLLG21	091	177	43	.	230.77			6474	10	400000000	21002	1	0	15	2.90	.	.	.	.	.	.	.	.	0	0	5190
1552	DLLG21	091	177	43	.	230.77			7117	10	400000000	90000	10	10	4	0.30	.	.	.	.	.	.	.	.	0	0	5400
1553	DLLG21	091	177	43	.	230.77			7117	10	400000000	22000	1	0	2	0.05	.	.	.	.	.	.	.	.	0	0	5410
1554	DLLG21	091	177	41	18	230.87	090.90	176.95	6490	10	400000000	16006	1	0	22	0.10	.	.	.	.	.	.	.	.	0	0	5770
1555	DLLG21	091	177	41	18	230.87	090.90	176.95	6490	10	400000000	21504	1	0	4	0.90	.	.	.	.	.	.	.	.	0	0	5780
1556	DLLG21	091	177	41	18	230.87	090.90	176.95	6490	10	400000000	21002	1	0	12	3.00	.	.	.	.	.	.	.	.	0	0	5790
1557	DLLG21	091	177	41	18	230.87	090.90	176.95	6490	10	400000000	22000	1	0	39	1.60	.	.	.	.	.	.	.	.	0	0	5800
1558	DLLG21	091	177	41	18	230.87	090.90	176.95	6490	10	400000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	0	5810
1559	DLLG21	091	177	42	18	230.77			6464	10	400000000	12013	1	0	1	0.05	.	.	.	.	.	.	.	.	0	0	6090
1560	DLLG21	091	177	42	18	230.77			6464	10	400000000	21002	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	6100
1561	DLLG21	091	177	42	18	230.77			6464	10	400000000	21506	1	0	2	0.60	.	.	.	.	.	.	.	.	0	0	6110
1562	DLLG21	091	177	42	18	230.77			6464	10	400000000	21500	1	0	1	0.30	.	.	.	.	.	.	.	.	0	0	6120
1563	DLLG21	091	177	42	18	230.77			6464	10	400000000	22000	1	0	8	0.20	.	.	.	.	.	.	.	.	0	0	6130
1564	DLLG21	091	177	43	4	231.76	090.60	176.05	3757	10	400000000	61006	10	10	11	0.05	.	.	.	.	.	.	.	.	0	1	1320
1565	DLLG21	091	177	32	.	231.33			3450	10	400000000	21225	19	10	1	0.20	.	.	.	.	.	.	.	.	0	1	2400
1566	DLLG21	091	177	38	.	231.03			6627	10	400000000	21002	19	.	1	0.20	.	.	.	.	.	.	.	.	0	1	4490
1567	DLLG21	091	177	43	.	230.78			6474	10	400000000	22000	12	13	4	0.10	.	.	.	.	.	.	.	.	0	1	7260
1568	DLLG21	091	177	43	.	230.78			6474	10	400000000	21507	1	.	4	0.10	.	.	.	.	.	.	.	.	0	1	7270

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BRUTACK	BUTCHER	FLAKE	OTHER	REX	BONENUM
1569	DLLG21	091	177	42	.	230.85	090.60	176.80	7021	10	400000000	21002	1	0	1	0.30	.	.	.	.	.	.	.	.	0	1	9410
1570	DLLG21	091	177	42	.	230.85	090.60	176.80	7021	10	400000000	22000	12	0	4	0.30	.	.	.	.	.	.	.	.	0	1	9420
1571	DLLG21	091	177	42	.	230.85	090.60	176.80	7021	10	400000000	22000	13	0	2	0.10	.	.	.	.	.	.	.	.	0	1	9430
1572	DLLG21	091	177	42	.	230.85	090.60	176.80	7021	10	400000000	90000	10	10	4	0.40	.	.	.	.	.	.	.	.	0	1	9460
1573	DLLG21	091	177	43	.	231.79	090.10	176.90	7181	10	400000000	22000	10	0	7	0.10	.	.	.	.	.	.	.	.	0	1	9510
1574	DLLG21	091	177	43	.	231.79	090.10	176.90	7181	10	400000000	10000	10	0	4	0.30	.	.	.	.	.	.	.	.	0	1	9520
1575	DLLG21	091	177	44	.	230.75	090.85	176.30	7036	10	400000000	22000	1	0	2	0.05	.	.	.	.	.	.	.	.	0	1	9640
1576	DLLG21	091	177	46	.	230.65	090.85	176.30	7037	10	400000000	22000	12	0	2	0.05	.	.	.	.	.	.	.	.	0	1	9730
1577	DLLG21	091	177	46	.	230.75	090.85	176.30	7157	10	400000000	22000	19	0	5	0.20	.	.	.	.	.	.	.	.	0	1	9790
1578	DLLG21	091	177	46	.	230.75	090.85	176.30	7157	10	400000000	22000	10	10	4	0.10	.	.	.	.	.	.	.	.	0	1	9860
1579	DLLG21	091	177	42	.	230.85	090.20	176.55	7020	10	400000000	21002	1	0	1	0.10	.	.	.	.	.	.	.	.	0	1	9940
1580	DLLG21	092	177	.	.	230.47			7068	10	400000000	21000	19	0	1	0.05	.	.	.	.	.	.	.	.	0	0	3510
1581	DILG21	092	177	.	12	.			6755	10	400000000	21225	1	0	1	0.60	.	.	.	.	.	.	.	.	0	0	3940
1582	DLLG21	092	177	48	12	230.52	091.28	176.47	6466	10	400000000	11058	1	0	14	0.20	.	.	.	.	.	.	.	.	0	0	6240
1583	DLLG21	092	177	48	12	230.52	091.28	176.47	6466	10	400000000	21002	10	10	2	0.10	.	.	.	.	.	.	.	.	0	0	6260
1584	DLLG21	092	177	49	.	230.47			7126	10	400000000	11058	1	0	3	0.05	.	.	.	.	.	.	.	.	0	0	6370
1585	DLLG21	092	177	49	.	230.47			7126	10	400000000	21002	1	0	7	0.20	.	.	.	.	.	.	.	.	0	0	6380
1586	DLLG21	092	177	49	.	230.47			7126	10	400000000	22000	10	10	40	0.50	.	.	.	.	.	.	.	.	0	0	6390
1587	DLLG21	092	177	12	.	.			6755	10	400000000	22000	1	0	2	0.50	.	.	.	.	.	.	.	.	0	0	7870
1588	DLLG21	092	177	34	.	.			1819	10	400000000	61001	1	0	1	0.10	.	.	.	.	.	.	.	.	0	1	70
1589	DLLG21	092	177	42	.	230.82	091.97	176.85	2567	10	40000000U	90000	10	10	4	0.02	.	.	.	.	.	.	.	.	0	1	1970
1590	DLLG21	092	177	41	6	230.86	091.53	176.88	2565	10	400000000	22000	10	10	3	0.10	.	.	.	.	.	.	.	.	0	1	2370
1591	DLLG21	092	177	40	6	230.94	091.53	176.86	2563	10	400000000	21500	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	2390
1592	DLLG21	092	177	45	12	230.67	091.33	176.35	2754	10	400000000	22000	10	10	15	0.30	.	.	.	.	.	.	.	.	0	1	3820
1593	DLLG21	092	177	41	6	230.88	091.50	176.88	2573	10	400000000	22000	10	10	3	0.05	.	.	.	.	.	.	.	.	0	1	4100
1594	DLLG21	092	177	49	12	.			7116	10	400000000	21225	19	.	2	0.10	.	.	.	.	.	.	.	.	0	1	4830
1595	DLLG21	092	177	35	.	.			1834	10	400000000	61001	12	.	1	0.10	.	.	.	.	.	.	.	.	0	1	6470
1596	DLLG21	092	177	35	.	.			1834	10	400000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	6480
1597	DLLG21	092	177	41	6	230.88	091.45	176.73	1897	10	400000000	21002	10	10	3	0.60	.	.	.	.	.	.	.	.	0	1	7530
1598	DLLG21	092	177	41	6	230.88	091.45	176.73	1897	10	400000000	61001	12	13	2	0.10	.	.	.	.	.	.	.	.	0	1	7540
1599	DLLG21	092	177	41	6	230.88	091.45	176.73	1897	10	400000000	61001	14	12	4	0.30	.	.	.	.	.	.	.	.	0	1	7550
1600	DLLG21	092	177	41	6	230.88	091.45	176.73	1897	10	400000000	61001	19	10	1	0.40	.	.	.	.	.	.	.	.	0	1	7560
1601	DLLG21	092	177	40	.	.			1886	10	400000000	11058	10	10	3	0.10	.	.	.	.	.	.	.	.	0	1	7840
1602	DLLG21	092	177	40	.	.			1886	10	400000000	12013	10	10	4	.	.	.	.	.	.	.	.	.	0	1	7850
1603	DLLG21	092	177	40	.	.			1886	10	400000000	90000	10	10	12	0.80	.	.	.	.	.	.	.	.	0	1	7970
1604	DLLG21	092	177	49	.	230.48			7126	10	400000000	11044	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	7980
1605	DLLG21	092	177	49	.	230.48			7126	10	400000000	90000	10	10	11	0.40	.	.	.	.	.	.	.	.	0	1	7990
1606	DLLG21	092	177	49	.	230.48			7126	10	400000000	11055	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	8000
1607	DLLG21	092	177	49	.	230.48			7126	10	400000000	11052	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	8020
1608	DLLG21	092	177	49	.	230.48			7126	10	400000000	11050	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	8030
1609	DLLG21	092	177	49	.	230.48			7126	10	400000000	21507	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	8040
1610	DLLG21	092	177	48	12	230.52	091.28	176.47	6466	10	400000000	11049	1	.	2	0.70	.	.	.	.	.	.	.	.	0	1	8230
1611	DLLG21	092	177	48	12	230.52	091.28	176.47	6466	10	400000000	11052	1	.	2	0.20	.	.	.	.	.	.	.	.	0	1	8240
1612	DLLG21	092	177	48	12	230.52	091.28	176.47	6466	10	400000000	11012	1	.	2	0.60	.	.	.	.	.	.	.	.	0	1	8250
1613	DLLG21	092	177	48	12	230.52	091.28	176.47	6466	10	400000000	11041	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	8260
1614	DLLG21	092	177	48	12	230.52	091.28	176.47	6466	10	400000000	90000	10	10	8	0.80	.	.	.	.	.	.	.	.	0	1	8270
1615	DLLG21	092	177	41	.	230.85	091.24	176.88	2373	10	400000000	21500	1	.	5	8.10	.	.	.	.	.	.	.	.	0	1	8610
1616	DLLG21	092	177	41	.	230.85	091.24	176.88	2373	10	400000000	61001	10	10	3	2.00	.	.	.	.	.	.	.	.	0	1	8620
1617	DLLG21	092	177	56	.	230.15	091.85	176.30	7173	10	400000000	90000	10	10	22	0.10	.	.	.	.	.	.	.	.	0	1	9570

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANBL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
1618	DLLG21	092	177	55	.	230.20	091.85	176.30	8001	10	400000000	22000	10	10	4	0.05	.	.	.	.	.	.	.	.	0	1	9690
1619	DLLG21	093	174	39	18	230.96	092.94	173.32	7113	10	400000000	21506	0	10	11	3.80	.	.	.	.	.	.	.	.	0	0	4360
1620	DLLG21	093	174	35	18	231.15	092.96	173.93	6478	10	400000000	61006	1	0	2	0.05	.	.	.	.	.	.	.	.	0	0	5430
1621	DLLG21	093	174	35	18	231.15	092.96	173.93	6478	10	400000000	21500	1	0	3	1.30	.	.	.	.	.	.	.	.	0	0	5440
1622	DLLG21	093	174	35	18	231.15	092.96	173.93	6478	10	400000000	21002	1	0	2	0.20	.	.	.	.	.	.	.	.	0	0	5450
1623	DLLG21	093	174	35	18	231.15	092.96	173.93	6478	10	400000000	11058	1	0	7	0.80	.	.	.	.	.	.	.	.	0	0	5460
1624	DLLG21	093	174	35	18	231.15	092.96	173.93	6478	10	400000000	61001	10	10	7	0.20	.	.	.	.	.	.	.	.	0	0	5470
1625	DLLG21	093	174	35	18	231.15	092.96	173.93	6478	10	400000000	90000	10	10	4	1.00	.	.	.	.	.	.	.	.	0	0	5480
1626	DLLG21	093	174	36	.	231.13	092.94	173.90	6480	10	400000000	22000	1	0	5	0.20	.	.	.	.	.	.	.	.	0	0	6770
1627	DLLG21	093	174	36	.	231.13	092.94	173.90	6480	10	400000000	61001	1	0	8	0.30	.	.	.	.	.	.	.	.	0	0	6780
1628	DLLG21	093	174	36	.	231.13	092.94	173.90	6480	10	400000000	90000	1	0	1	0.05	.	.	.	.	.	.	.	.	0	0	6790
1629	DLLG21	093	174	36	.	231.13	092.94	173.90	6480	10	400000000	21507	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	6800
1630	DLLG21	093	174	38	18	.			6643	10	400000000	22000	10	10	4	0.20	.	.	.	.	.	.	.	.	0	1	4330
1631	DLLG21	093	174	40	18	.			6670	10	400000000	21002	19	.	1	0.10	.	.	.	.	.	.	.	.	0	1	4370
1632	DLLG21	093	174	40	18	.			6670	10	400000000	21506	19	.	2	0.20	.	.	.	.	.	.	.	.	0	1	4380
1633	DLLG21	093	174	40	18	.			6670	10	400000000	22000	10	10	6	0.10	.	.	.	.	.	.	.	.	0	1	4390
1634	DLLG21	093	174	40	18	.			6670	10	400000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	4400
1635	DLLG21	093	174	41	5	.			6578	10	400000000	21506	1	.	1	0.20	.	.	.	.	.	.	.	.	0	1	4570
1636	DLLG21	093	174	39	18	230.96	092.81	173.68	7111	10	400000000	90000	10	10	5	0.30	.	.	.	.	.	.	.	.	0	1	5110
1637	DLLG21	093	174	39	18	230.96	092.81	173.68	7111	10	400000000	61001	12	.	29	2.00	.	.	.	.	.	.	.	.	0	1	5120
1638	DLLG21	093	174	39	18	230.96	092.81	173.68	7111	10	400000000	61100	12	.	1	0.10	.	.	.	.	.	.	.	.	0	1	5130
1639	DLLG21	093	174	39	18	230.96	092.81	173.68	7111	10	400000000	21500	1	.	5	2.00	.	.	.	.	.	.	.	.	0	1	5140
1640	DLLG21	093	174	39	18	230.96	092.81	173.68	7111	10	400000000	21504	1	.	3	0.90	.	.	.	.	.	.	.	.	0	1	5150
1641	DLLG21	093	174	39	18	230.96	092.81	173.68	7111	10	400000000	21506	1	.	2	0.50	.	.	.	.	.	.	.	.	0	1	5160
1642	DLLG21	093	174	39	18	230.96	092.94	173.32	7113	10	400000000	90000	10	10	3	0.10	.	.	.	.	.	.	.	.	0	1	5170
1643	DLLG21	093	174	39	18	230.96	092.94	173.32	7113	10	400000000	61001	12	.	14	1.00	.	.	.	.	.	.	.	.	0	1	5180
1644	DLLG21	093	174	39	18	230.96	092.94	173.32	7113	10	400000000	61100	1	.	1	0.05	.	.	.	.	.	.	.	.	0	1	5190
1645	DLLG21	093	174	39	18	230.96	092.94	173.32	7113	10	400000000	61001	12	.	13	1.10	.	.	.	.	.	.	.	.	0	1	5200
1646	DLLG21	093	174	39	18	230.96	092.94	173.32	7113	10	400000000	21507	12	10	2	0.10	.	.	.	.	.	.	.	.	0	1	8280
1647	DLLG21	093	174	39	18	230.96	092.94	173.32	7113	10	400000000	90000	10	10	6	1.00	.	.	.	.	.	.	.	.	0	1	8290
1648	DLLG21	093	174	39	18	230.96	092.81	173.68	7111	10	400000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	8450
1649	DILG21	093	177	.	12	.			6699	10	400000000	90000	10	10	3	0.20	.	.	.	.	.	.	.	.	0	0	3810
1650	DLLG21	093	177	.	12	.			6698	10	400000000	21500	1	0	3	0.80	.	.	.	.	.	.	.	.	0	0	4290
1651	DLLG21	093	177	.	12	.			6698	10	400000000	21504	1	0	3	0.60	.	.	.	.	.	.	.	.	0	0	4300
1652	DLLG21	093	177	.	12	.			6698	10	400000000	21506	1	0	5	1.00	.	.	.	.	.	.	.	.	0	0	4310
1653	DLLG21	093	177	.	12	.			6698	10	400000000	21002	1	0	13	1.30	.	.	.	.	.	.	.	.	0	0	4320
1654	DLLG21	093	177	.	12	.			6698	10	400000000	21507	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	4330
1655	DLLG21	093	177	17	.	.			6714	10	400000000	61001	10	10	2	0.05	.	.	.	.	.	.	.	.	0	0	4340
1656	DLLG21	093	177	18	12	230.56	092.03	175.95	6498	10	400000000	21500	1	0	1	0.05	.	.	.	.	.	.	.	.	0	0	6160
1657	DLLG21	093	177	18	12	230.56	092.03	175.95	6498	10	400000000	21225	1	0	1	0.05	.	.	.	.	.	.	.	.	0	0	6170
1658	DLLG21	093	177	18	12	230.56	092.03	175.95	6498	10	400000000	61001	10	10	9	0.05	.	.	.	.	.	.	.	.	0	0	6180
1659	DLLG21	093	177	22	.	230.11			5620	10	400000000	90000	10	10	1	0.05	.	.	.	.	.	.	.	.	0	0	6750
1660	DLLG21	093	177	18	.	230.53			7164	10	400000000	21500	1	0	1	1.00	.	.	.	.	.	.	.	.	0	0	7270
1661	DLLG21	093	177	18	.	230.53			7164	10	400000000	22000	1	0	1	0.20	.	.	.	.	.	.	.	.	0	0	7280
1662	DLLG21	093	177	34	.	.			6958	10	400000000	22000	1	0	2	0.10	.	.	.	.	.	.	.	.	0	0	7480
1663	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	400000000	61006	1	0	3	0.10	.	.	.	.	.	.	.	.	0	0	9160
1664	DLLG21	093	177	16	.	.			3567	10	400000000	61001	10	10	7	0.20	.	.	.	.	.	.	.	.	0	1	80
1665	DLLG21	093	177	.	.	.			2921	10	400000000	61006	10	10	3	0.05	.	.	.	.	.	.	.	.	0	1	1330
1666	DLLG21	093	177	13	.	230.89			2921	10	400000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	1340

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DB	SPROV	WPROV	CAT	CLS	TAXON	ANBL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCOUNT	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
1667	DLLG21	093	177	16	.	230.63			3566	10	400000000	90000	10	10	3	0.20	.	.	.	.	.	.	.	.	0	1	1520
1668	DLLG21	093	177	16	.	230.73			2904	10	400000000	22000	13	10	1	0.01	.	.	.	.	.	.	.	.	0	1	1620
1669	DLLG21	093	177	19	.	.			2203	10	400000000	22000	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	3360
1670	DLLG21	093	177	19	.	230.47	092.50	176.75	2209	10	400000000	11057	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	3480
1671	DLLG21	093	177	11	.	231.20	092.88	176.62	1938	10	400000000	21500	1	.	1	1.10	.	.	.	.	.	.	.	.	0	1	3700
1672	DLLG21	093	177	11	.	231.20	092.88	176.62	1938	10	400000000	21504	19	10	6	3.80	.	.	.	.	.	.	.	.	0	1	3710
1673	DLLG21	093	177	11	.	231.20	092.88	176.62	1938	10	400000000	21507	10	10	6	2.60	.	.	.	.	.	.	.	.	0	1	3720
1674	DLLG21	093	177	11	.	231.20	092.88	176.62	1938	10	400000000	90000	10	10	5	0.10	.	.	.	.	.	.	.	.	0	1	3730
1675	DLLG21	093	177	17	.	230.63			6639	10	400000000	90000	10	10	3	0.20	.	.	.	.	.	.	.	.	0	1	4210
1676	DLLG21	093	177	17	.	230.63			6639	10	400000000	22000	10	10	3	0.10	.	.	.	.	.	.	.	.	0	1	4220
1677	DLLG21	093	177	.	12	.	092.74	176.64	6588	10	400000000	21500	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	4280
1678	DLLG21	093	177	23	.	.			6432	10	400000000	21225	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	5570
1679	DLLG21	093	177	23	.	.			6432	10	400000000	21002	18	.	1	0.10	.	.	.	.	.	.	.	.	0	1	5580
1680	DLLG21	093	177	12	.	.			6775	10	400000000	21002	19	.	3	0.50	.	.	.	.	.	.	.	.	0	1	5900
1681	DLLG21	093	177	12	.	.			6775	10	400000000	21504	19	.	4	0.70	.	.	.	.	.	.	.	.	0	1	5910
1682	DLLG21	093	177	12	.	.			6775	10	400000000	11058	1	.	3	0.10	.	.	.	.	.	.	.	.	0	1	5920
1683	DLLG21	093	177	.	12	.			6699	10	400000000	11049	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	6610
1684	DLLG21	093	177	.	12	.			6775	10	400000000	31060	19	.	1	0.10	.	.	.	.	.	.	.	.	0	1	7770
1685	DLLG21	093	177	.	12	.			6775	10	400000000	11012	1	.	1	0.20	1	.	.	.	.	.	.	.	0	1	7790
1686	DLLG21	093	177	.	12	.			6775	10	400000000	11051	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	7800
1687	DLLG21	093	177	20	.	.			7064	10	400000000	61006	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	8110
1688	DLLG21	093	177	20	.	.			7064	10	400000000	90000	10	10	5	0.10	.	.	.	.	.	.	.	.	0	1	8120
1689	DLLG21	093	177	18	.	230.53			7164	10	400000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	8500
1690	DLLG21	093	177	19	.	230.47	092.50	176.72	2209	10	400000000	90000	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	8570
1691	DLLG21	093	177	13	.	231.18	092.47	175.25	1385	10	400000000	22000	1	0	1	0.08	.	.	.	.	.	.	.	.	0	2	90
1692	DLLG21	094	174	39	18	230.97	093.84	173.86	6489	10	400000000	21225	1	0	3	1.20	.	.	.	.	.	.	.	.	0	0	5880
1693	DLLG21	094	174	39	18	230.97	093.84	173.86	6489	10	400000000	21500	1	0	4	1.00	.	.	.	.	.	.	.	.	0	0	5890
1694	DLLG21	094	174	39	18	230.97	093.84	173.86	6489	10	400000000	21002	1	0	3	0.90	.	.	.	.	.	.	.	.	0	0	5900
1695	DLLG21	094	174	39	18	230.97	093.84	173.86	6489	10	400000000	90000	10	10	8	1.00	.	.	.	.	.	.	.	.	0	0	5910
1696	DLLG21	094	174	39	18	230.97	093.84	173.86	6489	10	400000000	61006	1	0	8	0.10	.	.	.	.	.	.	.	.	0	0	5920
1697	DLLG21	094	174	38	18	231.03	093.31	173.12	3249	10	400000000	61001	1	0	2	0.10	.	.	.	.	.	.	.	.	0	0	9790
1698	DLLG21	094	174	34	4	231.22	093.53	173.82	2612	10	400000000	11012	1	.	2	0.50	.	.	.	.	.	.	.	.	0	1	1160
1699	DLLG21	094	174	34	4	231.22	093.53	173.82	2612	10	400000000	90000	10	10	27	1.70	.	.	.	.	.	.	.	.	0	1	1210
1700	DLLG21	094	174	38	4	231.03	093.43	173.92	3250	10	400000000	21500	19	10	1	0.10	.	.	.	.	.	.	.	.	0	1	1240
1701	DLLG21	094	174	38	4	231.03	093.43	173.92	3250	10	400000000	90000	10	10	22	0.80	.	.	.	.	.	.	.	.	0	1	1250
1702	DLLG21	094	174	38	4	231.03	093.43	173.92	3250	10	400000000	22000	12	.	12	0.90	.	.	.	.	.	.	.	.	0	1	1260
1703	DLLG21	094	174	35	4	231.19	093.51	173.62	2620	10	400000000	21225	19	11	1	0.20	.	.	.	.	.	.	.	.	0	1	1280
1704	DLLG21	094	174	35	4	231.19	093.51	173.62	2620	10	400000000	61001	12	10	6	0.10	.	.	.	.	.	.	.	.	0	1	1290
1705	DLLG21	094	174	35	4	231.19	093.51	173.62	2620	10	400000000	61001	10	10	7	0.20	.	.	.	.	.	.	.	.	0	1	1300
1706	DLLG21	094	174	35	4	231.19	093.51	173.62	2620	10	400000000	61006	10	10	19	0.10	.	.	.	.	.	.	.	.	0	1	1310
1707	DLLG21	094	174	38	18	231.02	093.64	173.31	3251	10	400000000	22000	10	10	4	0.20	.	.	.	.	.	.	.	.	0	1	2500
1708	DLLG21	094	174	38	18	231.02	093.64	173.31	3251	10	400000000	21507	11	10	2	0.10	.	.	.	.	.	.	.	.	0	1	2510
1709	DLLG21	094	174	38	18	231.02	093.64	173.31	3251	10	400000000	21225	19	10	4	0.80	.	.	.	.	.	.	.	.	0	1	2520
1710	DLLG21	094	174	38	18	231.02	093.64	173.31	3251	10	400000000	21500	19	10	2	0.20	.	.	.	.	.	.	.	.	0	1	2530
1711	DLLG21	094	174	40	.	230.92	093.63	173.24	7114	10	400000000	21225	1	.	1	0.20	.	.	.	.	.	.	.	.	0	1	4930
1712	DLLG21	094	174	40	.	230.92	093.63	173.24	7114	10	400000000	21504	10	.	1	0.10	.	.	.	.	.	.	.	.	0	1	4940
1713	DLLG21	094	174	40	.	230.92	093.63	173.24	7114	10	400000000	21500	1	.	3	0.80	.	.	.	.	.	.	.	.	0	1	4950
1714	DLLG21	094	174	40	.	230.92	093.63	173.24	7114	10	400000000	90000	10	10	3	0.10	.	.	.	.	.	.	.	.	0	1	4990
1715	DLLG21	094	174	40	.	230.92	093.63	173.24	7114	10	400000000	61001	10	10	5	0.80	.	.	.	.	.	.	.	.	0	1	5000

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANBL	PORT	SBG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
1716	DLLG21	094	174	39	18	230.95	093.30	173.47	6497	10	400000000	90000	10	10	2	0.20	.	.	.	.	.	.	.	.	0	1	5360
1717	DLLG21	094	174	39	18	230.95	093.30	173.47	6497	10	400000000	22000	11	.	4	0.20	.	.	.	.	.	.	.	.	0	1	5370
1718	DLLG21	094	174	39	18	230.95	093.30	173.47	6497	10	400000000	21507	11	.	9	0.20	.	.	.	.	.	.	.	.	0	1	5380
1719	DLLG21	094	174	39	18	230.95	093.30	173.47	6497	10	400000000	90000	10	10	17	0.80	.	.	.	.	.	.	.	.	0	1	5390
1720	DLLG21	094	174	39	18	230.97	093.88	173.16	6463	10	400000000	61100	11	.	2	0.10	.	.	.	.	.	.	.	.	0	1	5590
1721	DLLG21	094	174	39	18	230.97	093.88	173.16	6463	10	400000000	21507	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	5600
1722	DLLG21	094	174	39	18	230.97	093.88	173.16	6463	10	400000000	22000	11	.	21	1.80	.	.	.	.	.	.	.	.	0	1	5610
1723	DLLG21	094	174	39	18	230.97	093.88	173.16	6463	10	400000000	21225	1	.	6	2.00	.	.	.	.	.	.	.	.	0	1	5620
1724	DLLG21	094	174	39	18	230.97	093.88	173.16	6463	10	400000000	21002	10	10	2	0.50	.	.	.	.	.	.	.	.	0	1	5630
1725	DLLG21	094	174	39	18	230.97	093.88	173.16	6463	10	400000000	21500	1	.	1	0.20	.	.	.	.	.	.	.	.	0	1	5640
1726	DLLG21	094	174	39	18	230.97	093.88	173.16	6463	10	400000000	90000	10	10	26	2.30	.	.	.	.	.	.	.	.	0	1	5650
1727	DLLG21	094	174	37	18	.			3058	10	400000000	21504	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	7060
1728	DLLG21	094	174	37	18	.			3058	10	400000000	61001	12	10	1	0.10	.	.	.	.	.	.	.	.	0	1	7070
1729	DLLG21	094	174	35	18	231.19	093.51	173.62	2620	10	400000000	11050	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	7740
1730	DLLG21	094	174	35	18	231.02	093.92	173.91	2802	10	400000000	21500	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	7810
1731	DLLG21	094	174	35	18	231.02	093.92	173.91	2802	10	400000000	61100	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	7830
1732	DLLG21	094	174	39	18	230.97	093.88	173.16	6463	10	400000000	61100	12	10	2	0.10	.	.	.	.	.	.	.	.	0	1	8300
1733	DLLG21	094	174	39	18	230.97	093.88	173.16	6463	10	400000000	21225	1	.	6	1.80	.	.	.	.	.	.	.	.	0	1	8310
1734	DLLG21	094	174	39	18	230.97	093.88	173.16	6463	10	400000000	21002	19	.	2	0.20	.	.	.	.	.	.	.	.	0	1	8320
1735	DLLG21	094	174	39	18	230.97	093.88	173.16	6463	10	400000000	21500	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	8330
1736	DLLG21	094	174	39	18	230.97	093.88	173.16	6463	10	400000000	21507	10	10	47	2.80	.	.	.	.	.	.	.	.	0	1	8340
1737	DLLG21	094	174	39	18	230.97	093.88	173.16	6463	10	400000000	90000	10	10	2	0.30	.	.	.	.	.	.	.	.	0	1	8350
1738	DLLG21	094	174	39	18	230.97	093.88	173.16	6463	10	400000000	31060	1	.	1	0.20	.	.	.	.	.	.	.	.	0	1	8420
1739	DLLG21	094	174	35	18	231.04	093.71	173.80	2810	10	400000000	32030	19	.	1	0.20	.	.	.	.	.	.	.	.	0	1	8510
1740	DLLG21	094	174	35	18	231.04	093.71	173.80	2810	10	400000000	21225	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	8520
1741	DLLG21	094	174	35	18	231.04	093.71	173.80	2810	10	400000000	90000	10	10	4	0.10	.	.	.	.	.	.	.	.	0	1	8530
1742	DLLG21	094	175	36	.	231.13	093.44	174.08	6477	10	400000000	21500	1	0	1	0.20	.	.	.	.	.	.	.	.	0	0	5830
1743	DLLG21	094	175	36	.	231.13	093.44	174.08	6477	10	400000000	61006	1	0	9	0.05	.	.	.	.	.	.	.	.	0	0	5840
1744	DLLG21	094	175	36	.	231.13	093.44	174.08	6477	10	400000000	22000	1	0	7	0.30	.	.	.	.	.	.	.	.	0	0	5860
1745	DLLG21	094	175	36	.	231.13	093.44	174.08	6477	10	400000000	61001	10	10	8	0.10	.	.	.	.	.	.	.	.	0	0	5870
1746	DLLG21	094	175	35	18	231.15	093.53	174.07	6467	10	400000000	21002	1	0	8	1.50	.	.	.	.	.	.	.	.	0	0	6500
1747	DLLG21	094	175	35	18	231.15	093.53	174.07	6467	10	400000000	21225	1	0	4	1.00	.	.	.	.	.	.	.	.	0	0	6510
1748	DLLG21	094	175	35	18	231.15	093.53	174.07	6467	10	400000000	21500	1	0	2	0.20	.	.	.	.	.	.	.	.	0	0	6520
1749	DLLG21	094	175	35	18	231.15	093.53	174.07	6467	10	400000000	21504	1	0	4	1.10	.	.	.	.	.	.	.	.	0	0	6530
1750	DLLG21	094	175	35	18	231.15	093.53	174.07	6467	10	400000000	22000	11	0	49	2.70	.	.	.	.	.	.	.	.	0	0	6540
1751	DLLG21	094	175	35	18	231.15	093.53	174.07	6467	10	400000000	61001	10	10	68	2.00	.	.	.	.	.	.	.	.	0	0	6550
1752	DLLG21	094	175	35	18	231.15	093.53	174.07	6467	10	400000000	90000	10	10	1	0.05	.	.	.	.	.	.	.	.	0	0	6640
1753	DLLG21	094	175	34	18	231.20	093.52	174.05	6500	10	400000000	21002	1	0	4	0.90	.	.	.	.	.	.	.	.	0	0	6650
1754	DLLG21	094	175	34	18	231.20	093.52	174.05	6500	10	400000000	21225	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	6660
1755	DLLG21	094	175	34	18	231.20	093.52	174.05	6500	10	400000000	21500	1	0	1	0.20	.	.	.	.	.	.	.	.	0	0	6670
1756	DLLG21	094	175	34	18	231.20	093.52	174.05	6500	10	400000000	21501	1	0	2	0.80	.	.	.	.	.	.	.	.	0	0	6680
1757	DLLG21	094	175	34	18	231.20	093.52	174.05	6500	10	400000000	21506	1	0	5	1.10	.	.	.	.	.	.	.	.	0	0	6690
1758	DLLG21	094	175	34	18	231.20	093.52	174.05	6500	10	400000000	22000	1	0	35	2.50	.	.	.	.	.	.	.	.	0	0	6700
1759	DLLG21	094	175	34	18	231.20	093.52	174.05	6500	10	400000000	61001	10	10	27	1.00	.	.	.	.	.	.	.	.	0	0	6710
1760	DLLG21	094	175	38	18	231.02	093.38	174.07	6499	10	400000000	21507	11	.	1	0.05	.	.	.	.	.	.	.	.	0	1	5500
1761	DLLG21	094	175	38	18	231.02	093.38	174.07	6499	10	400000000	21225	1	.	1	0.50	.	.	.	.	.	.	.	.	0	1	5510
1762	DLLG21	094	175	38	18	231.02	093.38	174.07	6499	10	400000000	90000	10	10	1	0.05	.	.	.	.	.	.	.	.	0	1	5520
1763	DLLG21	094	175	35	18	231.15	093.53	174.07	6467	10	400000000	21507	1	.	2	0.10	.	.	.	.	.	.	.	.	0	1	8460
1764	DLLG21	094	189	29	.	.			4954	10	400000000	61006	10	10	1	0.01	.	.	.	.	.	.	.	.	0	1	1650

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
1765	DLLG21	096	174	32	8	231.31	095.55	173.60	7112	10	400000000	61100	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	4350
1766	DLLG21	096	174	32	.	231.32	095.56	173.53	7118	10	400000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	0	7420
1767	DLLG21	096	174	28	3	231.53			6657	10	400000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	4440
1768	DLLG21	096	174	28	3	231.53			6657	10	400000000	61001	13	10	1	0.10	.	.	.	.	.	.	.	.	0	1	4450
1769	DLLG21	096	174	32	.	231.32	095.56	173.53	7118	10	400000000	21225	1	.	1	0.20	.	.	.	.	.	.	.	.	0	1	4900
1770	DLLG21	096	174	32	.	231.32	095.56	173.53	7118	10	400000000	90000	10	10	2	0.05	.	.	.	.	.	.	.	.	0	1	4910
1771	DLLG21	096	174	32	.	231.32	095.56	173.53	7118	10	400000000	61001	10	10	2	0.10	.	.	.	.	.	.	.	.	0	1	4920
1772	DLLG21	096	174	32	8	231.31	095.55	173.60	7112	10	400000000	21225	19	.	3	1.00	.	.	.	.	.	.	.	.	0	1	5020
1773	DLLG21	096	174	32	8	231.31	095.55	173.60	7112	10	400000000	21504	10	.	1	0.10	.	.	.	.	.	.	.	.	0	1	5030
1774	DLLG21	096	174	32	8	231.31	095.55	173.60	7112	10	400000000	61001	10	10	14	0.80	.	.	.	.	.	.	.	.	0	1	5040
1775	DLLG21	096	174	32	8	231.31	095.55	173.60	7112	10	400000000	90000	10	10	2	0.10	.	.	.	.	.	.	.	.	0	1	5050
1776	DLLG21	096	174	32	8	231.31	095.55	173.60	7112	10	400000000	22000	12	.	1	0.10	.	.	.	.	.	.	.	.	0	1	5090
1777	DLLG21	096	174	32	8	231.31	095.55	173.60	7112	10	400000000	90000	10	10	2	0.10	.	.	.	.	.	.	.	.	0	1	5100
1778	DLLG21	096	174	31	.	231.38			7080	10	400000000	21225	1	.	6	2.80	.	.	.	.	.	.	.	.	0	1	6430
1779	DLLG21	096	174	31	.	231.38			7080	10	400000000	21500	1	.	1	0.30	.	.	.	.	.	.	.	.	0	1	6440
1780	DLLG21	096	174	31	.	231.38			7080	10	400000000	90000	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	6450
1781	DLLG21	096	174	32	18	.			7069	10	400000000	21225	1	.	5	1.90	.	.	.	.	.	.	.	.	0	1	8130
1782	DLLG21	096	174	32	18	.			7069	10	400000000	21002	19	.	1	0.10	.	.	.	.	.	.	.	.	0	1	8140
1783	DLLG21	096	174	32	18	.			7069	10	400000000	21225	19	10	9	2.50	.	.	.	.	.	.	.	.	0	1	8150
1784	DLLG21	096	174	32	18	.			7069	10	400000000	21504	19	10	4	0.50	.	.	.	.	.	.	.	.	0	1	8160
1785	DLLG21	096	174	32	18	.			7069	10	400000000	21101	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	8170
1786	DLLG21	096	174	32	18	231.31	095.55	173.60	7112	10	400000000	11058	1	.	2	0.10	.	.	.	.	.	.	.	.	0	1	8360
1787	DLLG21	096	174	32	18	231.31	095.55	173.60	7112	10	400000000	12013	1	.	2	0.10	.	.	.	.	.	.	.	.	0	1	8370
1788	DLLG21	096	174	32	18	231.31	095.55	173.60	7112	10	400000000	11063	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	8380
1789	DLLG21	096	174	32	18	231.31	095.55	173.60	7112	10	400000000	11057	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	8390
1790	DLLG21	096	174	35	.	231.20	094.10	173.63	7006	10	400000000	21002	1	0	1	0.20	.	.	.	.	.	.	.	.	0	1	9970
1791	DLLG21	096	174	35	.	231.20	094.10	173.63	7006	10	400000000	90000	10	10	1	0.01	.	.	.	.	.	.	.	.	0	2	40
1792	DLLG21	096	174	35	.	231.20	094.10	173.30	7006	10	400000000	90000	1	0	1	0.10	.	.	.	.	.	.	.	.	0	2	120
1793	DLLG21	096	174	35	.	231.20	094.10	173.30	7006	10	400000000	21000	1	0	1	0.20	.	.	.	.	.	.	.	.	0	2	130
1794	DLLG21	092	177	49	.	230.47			7126	10	403010300	12005	1	0	1	0.05	2	.	.	.	.	.	.	.	0	0	6350
1795	DLLG21	092	177	40	.	.			1886	10	403010300	11052	1	.	2	0.10	.	.	.	.	.	.	.	.	0	1	7890
1796	DLLG21	092	177	40	.	.			1886	10	403010300	11049	1	.	1	0.20	2	.	.	.	.	.	.	.	0	1	7900
1797	DLLG21	092	177	40	.	.			1886	10	403010300	11049	1	.	1	0.20	1	.	.	.	.	.	.	.	0	1	7910
1798	DLLG21	092	177	40	.	.			1886	10	403010300	11050	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	7920
1799	DLLG21	092	177	40	.	.			1886	10	403010300	31070	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	7930
1800	DLLG21	092	177	40	.	.			1886	10	403010300	11027	24	.	1	0.10	.	.	.	.	.	.	.	.	0	1	7940
1801	DLLG21	093	174	39	18	230.96	092.94	173.32	7113	10	403010300	21225	10	.	1	0.10	.	.	.	.	.	.	.	.	0	1	5210
1802	DLLG21	093	174	39	18	230.96	092.94	173.32	7113	10	403010300	21500	.	.	4	1.20	.	.	.	.	.	.	.	.	0	1	5220
1803	DLLG21	093	174	39	18	230.96	092.94	173.32	7113	10	403010300	21506	.	.	7	2.10	.	.	.	.	.	.	.	.	0	1	5230
1804	DLLG21	093	177	.	12	.			6775	10	403010300	11012	1	.	1	0.10	1	.	.	.	.	.	.	.	0	1	7750
1805	DLLG21	093	177	.	12	.			6775	10	403010300	11051	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	7760
1806	DLLG21	096	174	31	.	231.35	095.12	173.83	6468	10	403010300	31060	1	0	1	1.10	.	.	.	.	.	.	.	.	0	0	4900
1807	DLLG21	096	174	32	18	.			7069	10	403010300	31010	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	8190
1808	DLLG21	096	174	32	18	.			7069	10	403010300	11050	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	8200
1809	DLLG21	096	174	32	18	.			7069	10	403010300	11049	1	.	1	0.50	.	.	.	.	.	.	.	.	0	1	8210
1810	DLLG21	096	174	32	18	.			7069	10	403010300	11052	1	.	2	0.20	.	.	.	.	.	.	.	.	0	1	8220
1811	DLLG21	092	177	49	.	230.47			7126	10	403010301	11049	1	0	1	0.20	1	.	.	.	.	.	.	.	0	0	6330
1812	DLLG21	092	177	49	.	230.47			7126	10	403010301	11049	1	0	1	0.20	2	.	.	.	.	.	.	.	0	0	6340
1813	DLLG21	093	174	36	.	231.13	092.94	173.90	6480	10	403010301	31060	1	0	1	0.80	.	.	.	.	.	.	.	.	0	0	6760

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BREAK	BUTCH	FLAKE	OTHER	REX	BONENUM
1814	DLLG21	096	174	28	3	231.53			6657	10	403010301	31060	1	.	1	1.10	1	.	.	.	.	.	.	.	0	1	4410
1815	DLLG21	096	174	28	3	231.53			6657	10	403010301	31060	10	10	1	0.80	2	.	.	.	.	.	.	.	0	1	4420
1816	DLLG21	096	174	28	3	231.53			6657	10	403010301	12006	1	.	1	0.10	2	.	.	.	.	.	.	.	0	1	4430
1817	DLLG21	096	174	32	8	231.31	095.55	173.60	7112	10	403010301	31060	10	10	1	0.20	.	.	.	.	.	.	.	.	0	1	5060
1818	DLLG21	096	174	32	8	231.31	095.55	173.60	7112	10	403010301	11050	1	.	1	0.10	1	.	.	.	.	.	.	.	0	1	5070
1819	DLLG21	091	177	41	18	230.87	090.90	176.95	6490	10	403010304	31060	1	0	1	0.80	2	.	.	.	.	.	.	.	0	0	5740
1820	DLLG21	091	177	41	18	230.87	090.90	176.95	6490	10	403010304	11049	1	0	1	0.60	2	.	.	.	.	.	.	.	0	0	5750
1821	DLLG21	091	177	41	18	230.87	090.90	176.95	6490	10	403010304	11063	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	5760
1822	DLLG21	092	177	48	12	230.52	091.28	176.47	6466	10	403010304	11050	1	0	1	0.15	1	.	.	.	.	.	.	.	0	0	6190
1823	DLLG21	092	177	48	12	230.52	091.28	176.47	6466	10	403010304	11050	19	0	1	0.05	2	.	.	.	.	.	.	.	0	0	6200
1824	DLLG21	092	177	48	12	230.52	091.28	176.47	6466	10	403010304	11055	1	0	1	0.05	.	.	.	.	.	.	.	.	0	0	6210
1825	DLLG21	092	177	48	12	230.52	091.28	176.47	6466	10	403010304	11027	1	0	1	0.20	.	.	.	.	.	.	.	.	0	0	6220
1826	DLLG21	092	177	48	12	230.52	091.28	176.47	6466	10	403010304	12006	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	6230
1827	DLLG21	092	177	40	.	.			1886	10	403010304	11012	1	.	1	0.20	2	.	.	.	.	.	.	.	0	1	7860
1828	DLLG21	092	177	40	.	.			1886	10	403010304	31060	24	.	1	0.20	.	.	.	.	.	.	.	.	0	1	7870
1829	DLLG21	092	177	40	.	.			1886	10	403010304	11057	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	7880
1830	DLLG21	092	177	40	.	.			1886	10	403010304	11041	1	.	2	0.30	.	.	.	.	.	.	.	.	0	1	7960
1831	DLLG21	093	174	35	18	231.15	092.96	173.93	6478	10	403010304	31060	24	0	1	0.60	1	.	.	.	.	.	.	.	0	0	5490
1832	DLLG21	093	174	39	18	230.96	092.81	173.68	7111	10	403010304	32030	1	.	1	0.50	.	.	.	.	.	.	.	.	0	1	8440
1833	DILG21	093	177	.	12	.			6699	10	403010304	11050	1	0	1	0.20	.	.	.	.	.	.	.	.	0	0	3800
1834	DLLG21	093	177	.	12	.			6775	10	403010304	11049	1	0	1	0.50	.	.	.	.	.	.	.	.	0	0	4180
1835	DILG21	093	177	.	12	.			6699	10	403010304	11049	1	0	1	0.30	.	.	.	.	.	.	.	.	0	0	4250
1836	DILG21	093	177	.	12	.			6699	10	403010304	11041	1	0	1	0.20	.	.	.	.	.	.	.	.	0	0	4260
1837	DILG21	093	177	.	12	.			6699	10	403010304	11049	1	0	1	0.20	.	.	.	.	.	.	.	.	0	0	4270
1838	DLLG21	093	177	.	12	.			6699	10	403010304	11050	10	10	2	0.30	.	.	.	.	.	.	.	.	0	1	6590
1839	DLLG21	093	177	18	.	230.53			7164	10	403010304	32030	24	.	1	0.20	.	.	.	.	.	.	.	.	0	1	8480
1840	DLLG21	094	174	39	18	230.97	093.88	173.16	6463	10	403010304	32030	1	.	1	0.30	.	.	.	.	.	.	.	.	0	1	8430
1841	DLLG21	094	174	35	18	231.02	093.92	173.91	2802	10	403010304	32030	24	.	1	0.30	.	.	.	.	.	.	.	.	0	1	8470
1842	DLLG21	094	175	35	18	231.15	093.53	174.07	6467	10	403010304	31060	1	0	2	1.40	.	.	.	.	.	.	.	.	0	0	6600
1843	DLLG21	094	175	34	18	231.20	093.52	174.05	6500	10	403010304	32030	1	.	2	1.10	.	.	.	.	.	.	.	.	0	1	8400
1844	DLLG21	096	174	32	.	231.31	095.17	173.77	7109	10	403010304	31060	10	10	1	0.80	.	.	.	.	.	.	.	.	0	1	4880
1845	DLLG21	096	174	35	.	231.20	094.10	173.30	7006	10	403020100	31060	1	0	1	0.20	.	.	.	.	.	.	.	.	0	2	110
1846	DLLG21	091	177	42	.	230.83			3788	10	403020101	31060	1	0	1	0.10	1	.	.	.	.	.	.	.	0	0	1860
1847	DLLG21	092	177	49	.	230.47			7126	10	403020101	31060	1	0	3	0.20	.	.	.	.	.	.	.	.	0	0	6300
1848	DLLG21	092	177	49	.	230.47			7126	10	403020101	11049	1	0	1	0.05	.	.	.	.	.	.	.	.	0	0	6310
1849	DLLG21	092	177	49	.	230.47			7126	10	403020101	11050	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	6320
1850	DLLG21	092	177	49	.	230.47			7126	10	403020101	11041	1	0	3	0.05	.	.	.	.	.	.	.	.	0	0	6360
1851	DLLG21	092	177	41	.	230.78	091.91	176.79	2162	10	403020101	11050	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	2870
1852	DLLG21	092	177	41	6	230.88	091.50	176.88	2573	10	403020101	11003	1	.	1	0.10	1	.	.	.	.	.	.	.	0	1	4090
1853	DLLG21	092	177	49	.	230.48			7126	10	403020101	11007	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	8010
1854	DLLG21	092	177	12	.	.			6755	10	403020101	11050	1	.	1	0.20	.	.	.	.	.	.	.	.	0	1	8060
1855	DLLG21	093	177	.	.	.			7060	10	403020101	31060	1	0	1	0.20	.	.	.	.	.	.	.	.	0	0	3660
1856	DLLG21	093	177	22	12	230.11	092.79	175.99	6454	10	403020101	11050	1	0	1	0.30	.	.	.	.	.	.	.	.	0	0	4850
1857	DLLG21	093	177	.	.	.			1978	10	403020101	21225	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	3000
1858	DLLG21	093	177	17	.	230.63	092.50	176.72	2917	10	403020101	31060	1	.	1	0.20	.	.	.	.	.	.	.	.	0	1	3230
1859	DLLG21	093	177	19	.	230.40	092.50	175.72	2209	10	403020101	11049	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	5450
1860	DLLG21	093	177	.	12	.			6699	10	403020101	11050	1	.	1	0.20	.	.	.	.	.	.	.	.	0	1	6600
1861	DLLG21	093	177	.	12	.			6775	10	403020101	11050	1	.	1	0.20	2	.	.	.	.	.	.	.	0	1	7780
1862	DLLG21	093	177	20	.	.			7064	10	403020101	11049	1	.	2	0.20	.	.	.	.	.	.	.	.	0	1	8080

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	JUVBURN	JUVCORT	BRUBEAK	BLTACHE	FLAKE	OTHER	REX	BONEUM
1863	DLLG21	093	177	20	.	.			7064	10	403020101	11063	10	10	1	0.10	.	.	.	.	.	.	.	.	0	1	8090
1864	DLLG21	093	177	20	.	.			7064	10	403020101	11050	1	.	1	0.20	.	.	.	.	.	.	.	.	0	1	8100
1865	DLLG21	094	174	40	.	230.92	093.63	173.24	7114	10	403020101	11050	1	.	1	0.40	.	.	.	.	.	.	.	.	0	1	4970
1866	DLLG21	094	174	40	.	230.92	093.63	173.24	7114	10	403020101	11063	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	4980
1867	DLLG21	094	174	40	.	230.92	093.63	173.24	7114	10	403020101	11049	1	.	2	0.30	.	.	.	.	.	.	.	.	0	1	5530
1868	DLLG21	094	175	38	18	231.02	093.38	174.07	6499	10	403020101	31060	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	5490
1869	DLLG21	094	175	34	18	231.20	093.52	174.05	6500	10	403020101	31060	19	.	1	0.10	.	.	.	.	.	.	.	.	0	1	8410
1870	DLLG21	096	174	19	.	1.81	095.50	173.72	2209	10	403020101	11050	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	5010
1871	DLLG21	096	174	32	8	231.31	095.55	173.60	7112	10	403020101	31060	1	.	1	0.20	.	.	.	.	.	.	.	.	0	1	5080
1872		999	999	.	6	.			6448	10	403020101	11004	1	0	1	0.05	.	.	.	.	.	.	.	.	0	0	5030
1873		999	999	.	6	.			6448	10	403020101	11050	1	0	1	0.20	.	.	.	.	.	.	.	.	0	0	5040
1874		999	999	.	6	.			6448	10	403020101	12006	1	0	1	0.05	.	.	.	.	.	.	.	.	0	0	5050
1875		999	999	.	6	.			6448	10	403020101	11044	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	5060
1876		999	999	.	6	.			6448	10	403020101	11007	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	5070
1877		999	999	.	6	.			6448	10	403020101	11041	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	5080
1878	DLLG21	093	177	22	.	230.11			5620	10	404010201	21500	1	0	3	1.00	.	.	.	.	.	.	.	.	0	0	6730
1879	DLLG21	093	177	.	11	231.20	092.88	176.62	1938	10	404010201	21509	19	.	1	1.10	.	.	.	.	.	.	.	.	0	1	7820
1880	DLLG21	093	174	38	18	.			6643	10	404020000	31060	19	10	1	1.00	.	.	.	.	.	.	.	.	0	1	4320
1881	DLLG21	093	177	19	.	230.47	092.50	176.75	2209	10	404020200	11058	1	.	3	0.10	.	.	.	.	.	.	.	.	0	1	3520
1882	DLLG21	093	177	19	.	230.47	092.50	176.72	2209	10	404020200	11056	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	5460
1883	DLLG21	093	177	19	.	230.47	092.50	176.72	2209	10	404020200	11051	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	5480
1884	DLLG21	093	177	19	.	.			2203	10	404020201	11049	1	.	1	1.40	1	.	.	.	.	.	.	.	0	1	3330
1885	DLLG21	093	177	19	.	.			2203	10	404020201	11058	1	.	2	0.20	.	.	.	.	.	.	.	.	0	1	3350
1886	DLLG21	093	177	19	.	.			2203	10	404020201	11010	1	.	1	0.70	.	.	.	.	.	.	.	.	0	1	3380
1887	DLLG21	093	177	19	.	230.47	092.50	176.75	2209	10	404020201	11049	1	.	1	1.20	1	.	.	.	.	.	.	.	0	1	3400
1888	DLLG21	093	177	19	.	230.47	092.50	176.75	2209	10	404020201	11052	1	.	1	0.20	2	.	.	.	.	.	.	.	0	1	3430
1889	DLLG21	093	177	19	.	230.47	092.50	176.75	2209	10	404020201	11050	1	.	1	0.20	2	.	.	.	.	.	.	.	0	1	3440
1890	DLLG21	093	177	19	.	230.47	092.50	176.75	2209	10	404020201	11033	1	.	1	1.30	2	.	.	.	.	.	.	.	0	1	3500
1891	DLLG21	093	177	19	.	230.47	092.50	176.75	2209	10	404020201	11033	1	.	2	0.80	1	.	.	.	.	.	.	.	0	1	3510
1892	DLLG21	093	177	19	.	230.47	092.50	176.72	2209	10	404020201	11068	1	.	1	0.30	2	.	.	.	.	.	.	.	0	1	3580
1893	DLLG21	093	177	19	.	230.47	092.50	176.72	2209	10	404020201	11034	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	3590
1894	DLLG21	093	177	19	.	230.47	092.50	176.72	2209	10	404020201	11035	1	.	1	0.10	1	.	.	.	.	.	.	.	0	1	3630
1895	DLLG21	093	177	19	.	230.47	092.50	176.72	2209	10	404020201	11035	1	.	1	0.20	2	.	.	.	.	.	.	.	0	1	3640
1896	DLLG21	093	177	19	.	230.47	092.50	176.72	2209	10	404020201	11069	1	.	1	0.80	1	.	.	.	.	.	.	.	0	1	3650
1897	DLLG21	093	177	19	.	230.47	092.50	176.72	2209	10	404020201	11007	1	.	1	0.10	.	.	.	/	.	.	.	.	0	1	3660
1898	DLLG21	093	177	19	.	.			2203	10	404020202	11050	1	.	1	0.30	2	.	.	.	.	.	.	.	0	1	3320
1899	DLLG21	093	177	19	.	.			2203	10	404020202	11051	1	.	1	0.50	1	.	.	.	.	.	.	.	0	1	3340
1900	DLLG21	093	177	19	.	.			2203	10	404020202	11010	1	.	1	0.80	.	.	.	.	.	.	.	.	0	1	3370
1901	DLLG21	093	177	19	.	230.47	092.50	176.75	2209	10	404020202	11049	1	.	2	2.80	2	.	.	.	.	.	.	.	0	1	3390
1902	DLLG21	093	177	19	.	230.47	092.50	176.75	2209	10	404020202	11052	1	.	1	0.20	1	.	.	.	.	.	.	.	0	1	3410
1903	DLLG21	093	177	19	.	230.47	092.50	176.75	2209	10	404020202	11052	1	.	1	0.20	2	.	.	.	.	.	.	.	0	1	3420
1904	DLLG21	093	177	19	.	230.47	092.50	176.75	2209	10	404020202	11050	1	.	1	30.00	1	.	.	.	.	.	.	.	0	1	3450
1905	DLLG21	093	177	19	.	230.47	092.50	176.75	2209	10	404020202	11041	1	.	1	0.50	1	.	.	.	.	.	.	.	0	1	3460
1906	DLLG21	093	177	19	.	230.47	092.50	176.75	2209	10	404020202	11041	1	.	1	0.50	2	.	.	.	.	.	.	.	0	1	3470
1907	DLLG21	093	177	19	.	230.47	092.50	176.75	2209	10	404020202	11064	1	.	1	2.00	1	.	.	.	.	.	.	.	0	1	3490
1908	DLLG21	093	177	19	.	230.47	092.50	176.75	2209	10	404020202	11051	1	.	2	0.90	2	.	.	.	.	.	.	.	0	1	3530
1909	DLLG21	093	177	19	.	230.47	092.50	176.72	2209	10	404020202	11051	1	.	1	0.20	1	.	.	.	.	.	.	.	0	1	3540
1910	DLLG21	093	177	19	.	230.47	092.50	176.72	2209	10	404020202	11037	1	.	1	0.20	.	.	.	.	.	.	.	.	0	1	3550
1911	DLLG21	093	177	19	.	230.47	092.50	176.72	2209	10	404020202	11033	1	.	1	0.10	1	.	.	.	.	.	.	.	0	1	3560

OBS	SITE	UNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	BRUSPT	BUORN	JUVCOUNT	BRACK	BULTACH	FLAKE	OTHER	REX	BONE NUM
1912	DLLG21	093	177	19	.	230.47	092.50	176.72	2209	10	404020202	11033	1	.	1	0.10	2	.	.	.	.	.	.	.	0	1	3570
1913	DLLG21	093	177	19	.	230.47	092.50	176.72	2209	10	404020202	11032	1	.	1	0.30	.	.	.	.	.	.	.	.	0	1	3600
1914	DLLG21	093	177	19	.	230.47	092.50	176.72	2209	10	404020202	11020	1	.	1	0.20	2	.	.	.	.	.	.	.	0	1	3610
1915	DLLG21	093	177	19	.	230.47	092.50	176.72	2209	10	404020202	11046	1	.	1	0.20	.	.	.	.	.	.	.	.	0	1	3620
1916	DLLG21	093	177	19	.	230.47	092.50	176.72	2209	10	404020202	11051	1	.	1	0.10	.	.	.	.	.	.	.	.	0	1	5470
1917	DLLG21	093	177	18	.	230.53			7164	10	404020202	11052	1	.	1	0.20	.	.	.	.	.	.	.	.	0	1	8490
1918	DLLG21	093	177	16	.	230.73			2904	10	404030000	31060	14	10	1	0.01	.	.	.	.	.	.	.	.	0	1	1630
1919	DLLG21	093	174	25	.	.			6716	10	404030100	61100	19	10	1	0.60	.	.	.	.	.	.	.	.	0	0	3970
1920	DLLG21	093	177	18	.	230.53			7164	10	404030100	31060	18	0	1	3.40	.	.	.	.	.	.	.	.	0	0	7240
1921	DLLG21	061	189	31	16	231.33			2685	10	404030102	61100	12	0	1	1.00	1	.	.	.	.	.	.	.	0	0	1120
1922	DLLG21	094	174	34	4	231.22	093.53	173.82	2612	10	404030102	61100	1	.	1	0.10	1	.	.	.	.	.	.	.	0	1	1140
1923	DLLG21	094	174	34	4	231.22	093.53	173.82	2612	10	404030102	61000	1	.	1	0.10	2	.	.	.	.	.	.	.	0	1	1150
1924	DLLG21	094	174	34	4	231.22	093.53	173.82	2612	10	404030102	31060	11	10	1	0.30	1	.	.	.	.	.	.	.	0	1	1170
1925	DLLG21	094	174	34	4	231.22	093.53	173.82	2612	10	404030102	31060	11	10	1	0.30	2	.	.	.	.	.	.	.	0	1	1180
1926	DLLG21	094	174	34	4	231.22	093.53	173.82	2612	10	404030102	31060	16	10	1	0.10	1	.	.	.	.	.	.	.	0	1	1190
1927	DLLG21	094	174	34	4	231.22	093.53	173.82	2612	10	404030102	31060	16	10	1	0.10	2	.	.	.	.	.	.	.	0	1	1200
1928	DLLG21	094	174	34	4	231.22	093.53	173.82	2612	10	404030102	12006	1	10	1	0.05	1	.	.	.	.	.	.	.	0	1	1220
1929	DLLG21	094	174	34	4	231.22	093.53	173.82	2612	10	404030102	12006	1	10	1	0.05	2	.	.	.	.	.	.	.	0	1	1230
1930	DLLG21	094	174	34	4	231.22	093.53	173.82	2612	10	404030102	11063	11	10	1	0.10	.	.	.	.	.	.	.	.	0	1	1270
1931	DLLG21	094	174	40	.	230.92	093.63	173.24	7114	10	404030102	11070	1	.	1	3.90	.	.	.	.	.	.	.	.	0	1	4960
1932	DLLG21	061	189	31	16	231.33			2685	10	404030103	11041	17	0	1	1.10	2	.	.	.	.	.	.	.	0	0	1170
1933	DLLG21	093	177	13	.	.			1397	10	404030103	21503	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	1440
1934	DLLG21	194	190	23	2	231.76	193.84	189.79	2117	10	404030103	11041	10	10	2	2.10	2	.	.	.	.	.	.	.	0	1	1690
1935	DLLG21	091	177	37	.	231.08	090.60	176.95	3732	10	408010401	23000	10	10	1	0.20	2	.	.	.	.	.	.	.	0	1	2420
1936	DLLG21	093	177	17	.	230.63			6639	10	409000000	31060	10	10	1	0.50	.	.	.	.	.	.	.	.	0	1	5820
1937	DLLG21	091	177	43	.	231.79	090.10	176.90	7181	10	409020000	11006	19	0	1	0.05	.	.	.	.	.	.	.	.	0	1	9480
1938	DLLG21	093	177	18	18	230.53			7066	10	409020000	31060	10	10	2	1.00	.	.	.	.	.	.	.	.	0	1	5750
1939	DLLG21	092	177	40	.	.			1886	10	409020101	11034	1	.	1	0.10	2	.	.	.	.	.	.	.	0	1	7950
1940	DLLG21	094	174	40	.	.			6594	10	409020101	31060	24	10	1	0.50	1	.	.	.	.	.	.	.	0	1	4360
1941	DLLG21	094	175	35	18	231.15	093.53	174.07	6467	10	409020101	31060	1	0	1	0.90	.	.	.	.	.	.	.	.	0	0	6630
1942	DLLG21	094	175	35	18	231.15	093.53	174.07	6467	10	409020101	32030	24	.	1	0.20	.	.	.	.	.	.	.	.	0	1	8550
1943	DLLG21	096	174	31	.	231.38			7080	10	409020101	11027	19	.	2	0.30	.	.	.	.	.	.	.	.	0	1	6420
1944	DLLG21	091	177	46	.	230.65	090.85	176.30	7037	10	409020200	21225	19	0	8	1.70	.	.	.	.	.	.	.	.	0	1	9740
1945	DLLG21	091	177	43	.	230.77			7117	10	409020202	12006	1	0	1	0.50	1	.	.	.	.	.	.	.	0	0	5200
1946	DLLG21	091	177	43	.	230.77			7117	10	409020202	12006	1	0	1	0.50	2	.	.	.	.	.	.	.	0	0	5210
1947	DLLG21	091	177	43	.	230.77			7117	10	409020202	11041	1	0	1	0.20	2	.	.	.	.	.	.	.	0	0	5220
1948	DLLG21	091	177	43	.	230.77			7117	10	409020202	11006	1	0	1	0.10	2	.	.	.	.	.	.	.	0	0	5230
1949	DLLG21	091	177	43	.	230.77			7117	10	409020202	11002	1	0	1	0.10	1	.	.	.	.	.	.	.	0	0	5240
1950	DLLG21	091	177	43	.	230.77			7117	10	409020202	11002	1	0	1	0.10	2	.	.	.	.	.	.	.	0	0	5250
1951	DLLG21	091	177	43	.	230.77			7117	10	409020202	11004	1	0	2	0.70	.	.	.	.	.	.	.	.	0	0	5260
1952	DLLG21	091	177	43	.	230.77			7117	10	409020202	11050	1	0	1	0.50	2	.	.	.	.	.	.	.	0	0	5270
1953	DLLG21	091	177	43	.	230.77			7117	10	409020202	12004	1	0	1	0.80	1	.	.	.	.	.	.	.	0	0	5280
1954	DLLG21	091	177	43	.	230.77			7117	10	409020202	12004	1	0	1	0.80	2	.	.	.	.	.	.	.	0	0	5290
1955	DLLG21	091	177	43	.	230.77			7117	10	409020202	11027	1	0	2	0.40	.	.	.	.	.	.	.	.	0	0	5300
1956	DLLG21	091	177	43	.	230.77			7117	10	409020202	11012	1	0	1	0.50	2	.	.	.	.	.	.	.	0	0	5310
1957	DLLG21	091	177	43	.	230.77			7117	10	409020202	11012	1	0	1	0.50	1	.	.	.	.	.	.	.	0	0	5320
1958	DLLG21	091	177	43	.	230.77			7117	10	409020202	11030	1	0	1	0.10	2	.	.	.	.	.	.	.	0	0	5330
1959	DLLG21	091	177	43	.	230.77			7117	10	409020202	11051	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	5340
1960	DLLG21	091	177	43	.	230.77			7117	10	409020202	11045	1	0	2	0.20	.	.	.	.	.	.	.	.	0	0	5350

OBS	SITE	NUNIT	EUNIT	LEVEL	STRAT	DBD	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BBURN	JUVCOUNT	BBREAK	BRUTACH	FLAKE	OTHER	REX	BONENUM
1961	DLLG21	091	177	43	.	230.77			7117	10	409020202	11055	1	0	1	0.40	1	.	.	.	.	.	.	.	0	0	5360
1962	DLLG21	091	177	43	.	230.77			7117	10	409020202	11055	1	0	1	0.40	2	.	.	.	.	.	.	.	0	0	5370
1963	DLLG21	091	177	43	.	230.77			7117	10	409020202	11044	1	0	1	0.20	2	.	.	.	.	.	.	.	0	0	5380
1964	DLLG21	091	177	43	.	230.77			7117	10	409020202	11056	1	0	1	0.15	2	.	.	.	.	.	.	.	0	0	5390
1965	DLLG21	091	177	42	18	230.77			6464	10	409020202	11051	1	0	1	0.10	.	.	.	.	.	.	.	.	0	0	5630
1966	DLLG21	091	177	42	18	230.77			6464	10	409020202	11050	1	0	1	0.20	1	.	.	.	.	.	.	.	0	0	5640
1967	DLLG21	091	177	42	18	230.77			6464	10	409020202	11052	1	0	1	0.05	.	.	.	.	.	.	.	.	0	0	5650
1968	DLLG21	091	177	42	18	230.77			6464	10	409020202	11049	1	0	1	0.10	1	.	.	.	.	.	.	.	0	0	5660
1969	DLLG21	091	177	42	18	230.77			6464	10	409020202	11049	1	0	1	0.10	2	.	.	.	.	.	.	.	0	0	6060
1970	DLLG21	091	177	42	18	230.77			6464	10	409020202	31070	1	0	1	0.05	.	.	.	.	.	.	1	.	0	0	6070
1971	DLLG21	091	177	42	18	230.77			6464	10	409020202	31060	18	0	1	0.80	.	.	.	.	.	.	1	.	0	0	6080
1972	DLLG21	091	177	43	.	231.79	090.10	176.90	7181	10	409020202	11006	1	0	1	0.20	.	.	.	.	.	.	.	.	0	1	9470
1973	DLLG21	091	177	43	.	231.79	090.10	176.90	7181	10	409020202	11044	1	0	1	0.20	.	.	.	.	.	.	.	.	0	1	9490
1974	DLLG21	091	177	43	.	231.79	090.10	176.90	7181	10	409020202	11008	19	0	1	0.10	.	.	.	.	.	.	.	.	0	1	9500
1975	DILG21	092	177	.	12	.			6755	10	409020202	11044	1	0	1	0.20	2	.	.	.	.	.	.	.	0	0	3870
1976	DLLG21	092	177	51	.	230.37			6457	10	409020202	11050	1	0	1	1.10	2	.	.	.	.	.	.	.	0	0	4860
1977	DLLG21	092	177	51	.	230.37			6457	10	409020202	11049	1	0	1	0.50	.	.	.	.	.	.	.	.	0	0	4870
1978	DLLG21	092	177	51	.	230.37			6457	10	409020202	11052	1	0	1	0.20	.	.	.	.	.	.	.	.	0	0	4880
1979	DLLG21	092	177	49	.	230.47			7126	10	409020202	11004	1	0	1	0.80	.	.	.	.	.	.	.	.	0	0	6280
1980	DLLG21	092	177	49	.	230.47			7126	10	409020202	31060	1	0	1	0.60	.	.	.	.	.	.	.	.	0	0	6290
1981	DLLG21	092	177	42	.	230.82	091.97	176.85	2567	10	409020202	22000	1	.	4	0.20	.	.	.	.	.	.	.	.	0	1	1980
1982	DLLG21	092	177	42	.	230.82	091.97	176.85	2567	10	409020202	21225	1	.	2	0.30	.	.	.	.	.	.	.	.	0	1	1990
1983	DLLG21	092	177	42	.	230.82	091.97	176.85	2567	10	409020202	12005	1	.	1	0.50	2	.	.	.	.	.	.	.	0	1	2000
1984	DLLG21	092	177	42	.	230.82	091.97	176.85	2567	10	409020202	11050	1	.	1	0.30	1	.	.	.	.	.	.	.	0	1	2010
1985	DLLG21	092	177	42	.	230.82	091.97	176.85	2567	10	409020202	11049	1	.	1	0.10	1	.	.	.	.	.	.	.	0	1	2020
1986	DLLG21	092	177	42	.	230.82	091.97	176.85	2567	10	409020202	11049	1	.	1	0.10	2	.	.	.	.	.	.	.	0	1	2030
1987	DLLG21	092	177	42	.	230.82	091.97	176.85	2567	10	409020202	11052	1	.	2	0.20	.	.	.	.	.	.	.	.	0	1	2040
1988	DLLG21	092	177	42	.	230.82	091.97	176.85	2567	10	409020202	31070	1	.	2	0.20	.	.	.	.	.	.	.	.	0	1	2050
1989	DLLG21	092	177	42	.	230.82	091.97	176.85	2567	10	409020202	11006	1	.	1	0.20	.	.	.	.	.	.	.	.	0	1	2060
1990	DLLG21	092	177	42	.	230.82	091.97	176.85	2567	10	409020202	11004	1	.	1	0.20	1	.	.	.	.	.	.	.	0	1	2070
1991	DLLG21	092	177	51	12	230.40	091.05	175.95	6492	10	409020202	11044	1	.	1	0.80	2	.	.	.	.	.	.	.	0	1	5400
1992	DLLG21	092	177	51	12	230.40	091.05	175.95	6492	10	409020202	31060	1	.	1	1.20	1	.	.	.	.	.	.	.	0	1	5410
1993	DLLG21	092	177	51	12	230.40	091.05	175.95	6492	10	409020202	11055	1	.	1	1.00	1	.	.	.	.	.	.	.	0	1	5420
1994	DLLG21	092	177	51	12	230.40	091.05	175.95	6492	10	409020202	11045	1	.	1	0.20	.	.	.	.	.	.	.	.	0	1	5430
1995	DLLG21	092	177	51	12	230.40	091.05	175.95	6492	10	409020202	12006	1	.	1	1.20	1	.	.	.	.	.	.	.	0	1	5440
1996	DLLG21	092	177	12	.	.			6755	10	409020202	11051	1	.	1	0.20	.	.	.	.	.	.	.	.	0	1	8050
1997	DLLG21	093	177	.	.	.			7060	10	409020202	11002	1	0	1	0.20	2	.	.	.	.	.	.	.	0	0	3630
1998	DLLG21	093	177	.	.	.			7060	10	409020202	11050	1	0	1	0.40	.	.	.	.	.	.	.	.	0	0	3640
1999	DLLG21	093	177	.	.	.			7060	10	409020202	11050	1	0	1	0.90	.	.	.	.	.	.	.	.	0	0	3650
2000	DLLG21	093	177	.	12	.			6775	10	409020202	11004	1	0	1	0.20	1	.	.	.	.	.	.	.	0	0	4170
2001	DILG21	093	177	.	12	.			6699	10	409020202	11050	1	0	1	0.30	2	.	.	.	.	.	.	.	0	0	4230
2002	DILG21	093	177	.	12	.			6699	10	409020202	12005	1	0	1	0.50	1	.	.	.	.	.	.	.	0	0	4240
2003	DLLG21	093	177	23	.	.			6432	10	409020202	11003	1	.	1	0.30	1	.	.	.	.	.	.	.	0	1	5550
2004	DLLG21	093	177	23	.	.			6432	10	409020202	11004	1	.	1	0.30	1	.	.	.	.	.	.	.	0	1	5560
2005	DLLG21	093	177	42	.	230.82	092.97	176.85	2567	10	409020202	11052	1	.	2	0.10	.	.	.	.	.	.	.	.	0	1	7730
2006	DLLG21	094	175	35	18	231.15	093.53	174.07	6467	10	409020202	31030	1	0	1	0.05	.	.	.	.	.	.	.	.	0	0	6610
2007	DLLG21	094	175	35	18	231.15	093.53	174.07	6467	10	409020202	31010	1	0	1	0.05	.	.	.	.	.	.	.	.	0	0	6620
2008	DLLG21	094	175	35	18	231.15	093.53	174.07	6467	10	409020202	32030	1	.	1	0.20	.	.	.	.	.	.	.	.	0	1	8540
2009	DLLG21	096	174	32	.	231.32	095.56	173.53	7118	10	409020202	31060	1	.	1	1.00	1	.	.	.	.	.	.	.	0	1	4890

OBS	SITE	NUNIT	EUNIT	LEVEL	STRATDB	SPROV	WPROV	CAT	CLS	TAXON	ANEL	PORT	SEG	QUANT	WEIGHT	SIDE	FUSE	ERUPT	BURN	JUVCORT	BRAKE	BUTCH	FLAKE	OTHER	REX	BONEUM
2010	DLLG21	096	174	31	. 231.38			7080	10	409020203	31068	1	.	1	0.7	1	.	.	.	.	.	.	.	0	1	6400
2011	DLLG21	096	174	31	. 231.38			7080	10	409020202	12006	1	.	1	0.1	.	.	.	.	.	.	.	.	0	1	6410
2012	DLLG21	096	174	32	10 .			7069	10	409020202	11051	1	.	1	0.1	.	.	.	.	.	.	.	.	0	1	8180
2013	DLLG21	061	189	31	16 231.33			2685	10	409030101	21500	19	0	1	0.1	.	.	.	.	.	.	.	.	0	0	1180
2014	DLLG21	090	177	41	15 230.80	089.20	176.99	6486	10	409030101	11062	1	0	1	0.9	.	.	.	.	.	.	.	.	0	0	6270
2015	DLLG21	094	174	34	10 231.23	093.86	173.58	2611	10	500000000	.	.	.	.	.	.	.	.	.	.	.	.	.	0	1	450
2016	DLLG21	061	188	19	1 231.97			4401	10	700000000	90000	10	10	2	0.1	.	.	.	.	.	.	.	.	0	0	620
2017	DLLG21	061	186	18	1 232.03			4200	10	700000000	90000	10	10	1	0.5	.	.	.	1	.	.	.	.	0	0	830
2018	DLLG21	061	192	19	1 231.97			4782	10	700000000	90000	10	10	1	1.0	.	.	.	.	.	.	.	.	0	0	230
2019	DLLG21	061	192	20	1 231.93			4792	10	700000000	90000	10	10	1	0.1	.	.	.	.	.	.	.	.	0	1	600