

# **Central Selkirk Mountain Caribou Habitat Use and Species-habitat Model for TFL#23**

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## EXECUTIVE SUMMARY

The Central Selkirk sub-population of mountain caribou (*Rangifer tarandus*) is a conservation concern, and habitat management for the species could have considerable economic consequences for the region. In 1996, Forest Renewal British Columbia (FRBC), in cooperation with local forest companies and the Ministry of Environment, Lands and Parks (MELP) initiated a four-year inventory study of the Central Selkirk sub-population. The study collected caribou population and life history data, and generated models of stand- and landscape-scale resource selection.

The inventory study also identified knowledge gaps regarding the ability of some of the models to adequately describe habitat attributes selected by caribou. Subsequently, Pope & Talbot Limited, in cooperation with MELP, initiated a one-year study to address the knowledge gaps identified in the study. Four mountain caribou were captured and radio-collared on TFL #23. Six telemetry flights, collecting 86 telemetry point locations on 18 radio-collared animals, were conducted between May and November 2000. Caribou movements observed during telemetry monitoring flights and field observations were also recorded. No aerial telemetry flights were conducted in December or January due to poor weather conditions.

Stand level attributes were sampled at 93 early winter use and 57 random sites. Significant stand-level variables were similar to those reported in the inventory study. Compared to random sites, caribou early winter sites typically had more windthrow, coarse woody debris, and arboreal lichens and were generally older, had lower crown closures and more stems/ha. An updated early winter model was generated from the expanded sample, resulting in an improved model compared to the model that was based only on data collected in 1998-99.

In addition to the early winter habitat model, a caribou species-habitat model (species account and ratings table) was developed according to Resource Inventory Committee (RIC) standards for wildlife capability/suitability modelling and mapping. Field personnel generated ratings for all site series and structural stages present on the project area. Field-based habitat suitability ratings were conducted at 49 early winter caribou telemetry locations and were compared to suitability ratings in the ratings table. Ratings were applied to the Arrow Predictive Ecosystem Map, using structural stages derived from forest age, in order to map mountain caribou habitat capability and suitability within TFL #23. Final suitability maps were tested for goodness-of-fit with existing caribou telemetry point locations. Caribou selected higher-rated habitats and avoided lower-rated habitats in all seasons. This project presents the first integration of wildlife-habitat ratings with the Arrow PEM where goodness-of-fit was tested with extensive animal use data.

The capability and suitability maps should be used as another tool for assessing land use impacts on TFL #23. Other important tools include maps of radio-telemetry point distributions by season, maps of the quantitative models developed by Hamilton et al. (2000), and the map of major and minor movement corridors. Each provide separate but related lines of evidence that indicate areas on the landscape that are important to mountain caribou. The suitability and capability mapping should be extended beyond the boundaries of TFL #23 to other parts of the Central Selkirks mountain caribou range.

## INTRODUCTION

Mountain caribou (*Rangifer tarandus*) are a species at risk in British Columbia. Of the 13 sub-populations in southeastern and central British Columbia, the Central Selkirk sub-population is one of the top conservation concerns, and management for the species in this region has the potential to cause considerable socio-economic disruption (Simpson et al. 1997). In 1996, Forest Renewal British Columbia (FRBC), in cooperation with Pope & Talbot Limited, Meadow Creek Cedar, Slocan Forest Products and the Ministry of Environment, Lands and Parks established a 4-year partnership to study the mountain caribou sub-population of the Central Selkirk Mountains. The project was designed to provide the population and habitat inventory data necessary to integrate effectively the needs of mountain caribou with forest landscape unit planning and operational management.

The earlier study resulting from the partnership agreement was a comprehensive examination of mountain caribou distribution and habitat use in the Central Selkirk Mountains, with a focus on habitat use in relation to forest cover and terrain attributes at the stand and landscape scales (Hamilton et al. 2000). The project identified a sub-population of approximately 230 animals, divided into two herds that were separated geographically and that used habitat differently. The Nakusp herd occupied the southern portion of the study area and made extensive use of ridgetops for travelling between drainages. The Duncan herd occupied the northeast portion of the study area and generally used the Duncan River valley bottom and comparatively smaller side drainages.

A significant knowledge gap identified in the study was the inability of resource selection models to adequately predict habitat use in low elevation interior cedar hemlock (ICH) forests, particularly in early winter. This was considered primarily a sample size problem related to the variability in caribou behaviour during this “transition” season (Hamilton et al. 2000). Understanding habitat use during early winter in low elevations forests is important because of the high value of these sites for both caribou and timber management.

The earlier study also identified the difficulty of defining the characteristics of high-quality caribou habitat based on a few stand level variables. This was primarily a statistical problem because some characteristics of good caribou habitat were not easily quantifiable (e.g., lichen production). In addition, there was often little contrast between caribou telemetry locations and random locations, which is required to build reliable models.

In response, we conducted a 1-year supplemental study of mountain caribou on TFL #23 to address knowledge gaps. The broad objectives of the study were:

1. to radio-collar four caribou to acquire representative sample and distribution data from collared caribou within the TFL#23 portion of the Central Selkirks mountain caribou sub-population;
2. to gather point location data through aerial monitoring of collared caribou weekly from November through January and monthly for the remainder of the year in order to increase

the number of caribou point locations and associated forest cover and TRIM inventory data – particularly for the early winter transitional period;

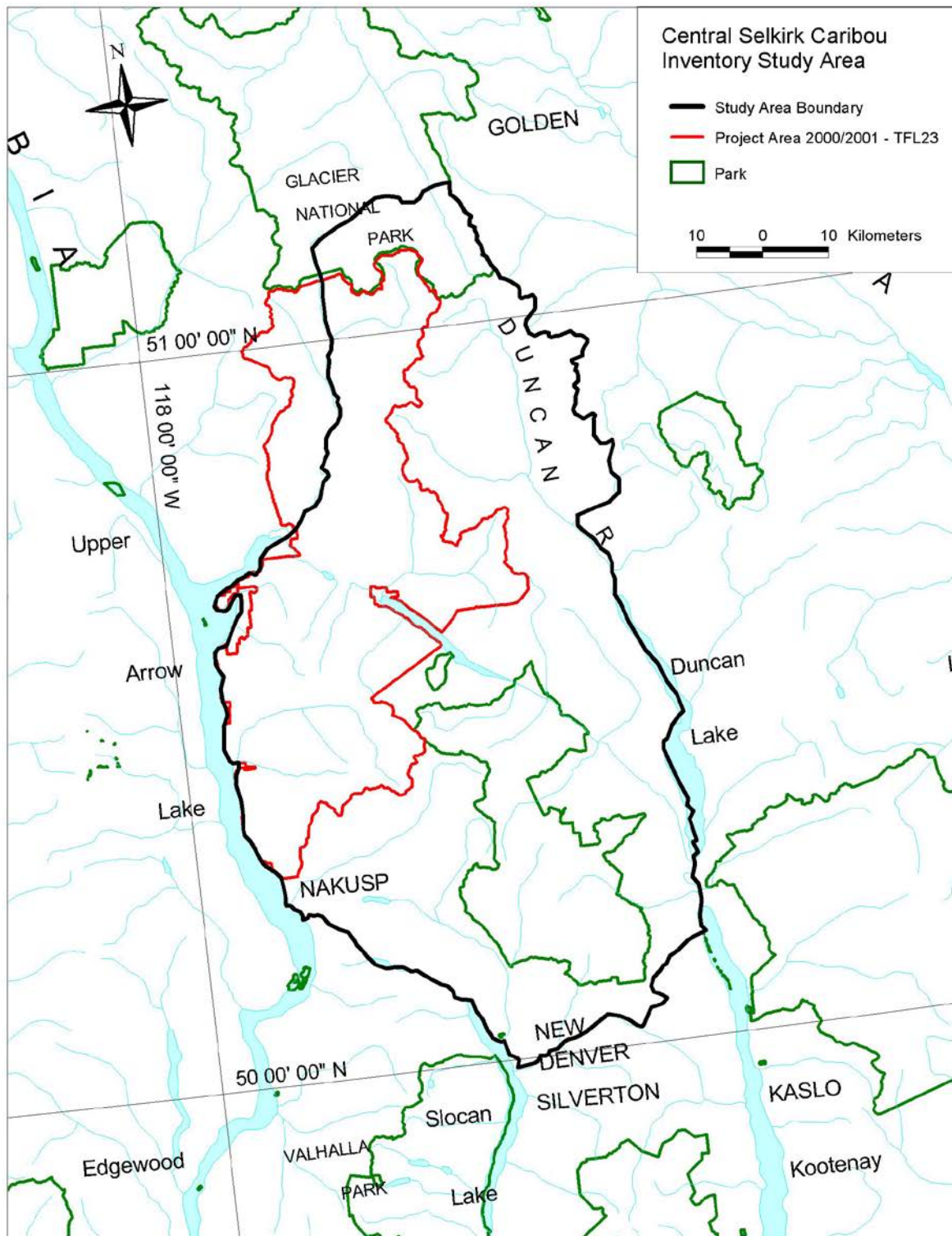
3. to collect stand level data through summer field sampling at caribou early winter point locations in order to revise the stand level resource selection model and to identify important attributes related to caribou habitat management; and,
4. to generate Predictive Ecosystem Mapping (PEM)-based caribou species-habitat model<sup>3</sup> (species account and ratings table), according to RIC standards.

This report should be considered an addendum to Hamilton et al (2000). Detailed methods and results from the 1996-9 study are referenced but not repeated in this document.

The project area (Figure 1) is located within the North Columbia Mountains ecoregion and the Central Columbia Mountains and Northern Kootenay Mountains ecosections. The area is characterized by steeply sloping mountainous terrain dominated by mature forest within the Interior Cedar-Hemlock (ICH), and Engelmann spruce-Subalpine fir (ESSF) biogeoclimatic zones. The Engelmann Spruce-Subalpine Fir wet cold variant 4 (ESSF wc4) and Engelmann Spruce-Subalpine Fir wet mild variant (ESSFwm) dominated the mid to upper elevation forest zone. Mid to lower slope forests included the Interior Cedar-Hemlock moist warm variant 1 (ICHmw1), Interior Cedar-Hemlock moist warm variant 2 (ICHmw2), Interior Cedar-Hemlock moist warm variant 3 (ICHmw3) and the Interior Cedar-Hemlock wet cool variant (ICHwk1). Alpine tundra (AT) dominates upper elevations.

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<sup>3</sup> Note that the original project objective was “to derive PEM based caribou early winter habitat capability/suitability mapping”. In fact, a PEM-based species-habitat model and capability/suitability mapping was developed and is reported for caribou early winter, late winter, spring, and summer/fall seasons of use.



**Figure 1:** Central Selkirk Caribou Inventory project area 2000/2001.

## **ACKNOWLEDGEMENTS**

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## **METHODS**

### **CARIBOU CAPTURE AND AERIAL MONITORING**

Bighorn Helicopters of Cranbrook, BC was contracted to capture four additional caribou on the project area. Aerial monitoring of newly radio-collared animals as well as caribou radio-collared during the previous study followed the methods of Hamilton et al. (2000). Caribou point locations were collected from the air using a twin engine Cessna 337 fixed wing aircraft equipped with directional receiving antennae and radio receiver. A trained and experienced technician operated a Lotek STR 1000 scanning receiver and directed the pilot to locate radio-collared caribou. Locations and habitat types were plotted on aerial photographs, along with UTM's recorded from the aircraft's GPS. Location data were entered into a Microsoft Access database and then imported to ArcInfo GIS. Caribou travel routes identified by track observations during telemetry flights were also recorded by the technician.

Technicians on flights noted consistently used travel corridors and later recorded these routes on a project area map. Major routes were areas where caribou and caribou tracks were consistently observed, and minor routes were specific areas where caribou, caribou tracks and/or caribou trails were observed during telemetry monitoring and/or during summer field sampling or winter trailing of caribou.

### **STAND LEVEL DATA COLLECTION AND RESOURCE SELECTION MODELLING**

Stand level attributes (Table 1) were measured at a random sample of early winter caribou telemetry point locations (i.e., project resources were inadequate to sample all locations) and at random locations within the 95% composite home range of radio-collared caribou. Data collection methods followed those for the 1999 field season outlined in Hamilton et al. (2000). Data were combined with those of Hamilton et al. (2000) and reanalyzed based on the resulting larger sample sizes.



**Table 1:** Variables, variable codes, and details of data collection methods for stand level attributes.

Variable	Code	Details
Aspect	FLAT, WA, C	Categorized as flat (<25 degrees), warm, or cool
Moisture	MOIST	From site series classification
Nutrient	NUTR	From site series classification
Windthrow	WINDTHRO	See form FS 39DHSP 96/7 for criteria
Mean slope	SLOPE_AV	Average of up and downslope percent slope measured by clinometer
Crown closure	CROWN_AV	Mean of % crown closure estimates in 4 cardinal directions
Sightability	SIGHT_AV	Average of 4 sight board intersection counts from 4 cardinal directions. Intersections are counted from 15m on boards 0.5m above the ground.
Coarse woody debris (# pieces)	CWD	Number of pieces of downed wood >7.5cm in diameter and >0.5m above the ground intersecting hip chain string line
Average CWD diameter	CWD_AVG	Average of all pieces noted above
Age	AGE	Mean age of all trees in prism sweep
Leading species	Bl, Hw, Sx, Cw	From timber type, categorical variable relative to other/none
Stems/ha	STEMS_HA	Count of all stems of all species in all strata
Average lichen load	LICH_AV	Mean of lichen class estimates for sample trees, from Armleder <i>et al.</i> (1992)
Branch litterfall	BRANCH_L	1 (low) - 3 (high) visual estimate for entire plot

Caribou location data from all years were pooled among caribou and years for analyses. We used a multiple logistic regression analysis to examine resource selection (Manly et al., 1993; Menard, 1995; Mace et al., 1999). Logistic regression regresses independent variables (in this case, habitat attributes) against a dichotomous dependent variable (“used” or caribou point locations versus “unused” or random locations). An important caution regarding logistic regression is that the dependent variable in wildlife resource selection studies is rarely dichotomous because there is an unknown probability that random locations classified as “unused” were actually used by animals. Therefore, the resulting selection models are conservative (Mace et al., 1999).

Categorical variables with  $n$  categories were coded to  $n - 1$  indicator variables. We screened variables for multicollinearity and omitted highly correlated variables ( $r > 0.75$ ). The resulting subset of variables was used to generate an initial model, and then we generated a final model based on the most parsimonious subset of variables that explained the most variation in the data, according to the Akaike information criterion (AIC; Burnham and Anderson 1998). Variable inclusion based on AIC is more accurate than inclusion based on the significance of Wald statistics (Menard, 1995); therefore, there were instances where variables that were not significant at  $P = 0.1$  were included in final model. The model with the highest AIC was not necessarily the one chosen because models that differ in AIC values from the most parsimonious model by  $<2$  have considerable support. Therefore, we chose the model with the most degrees of freedom with an AIC value that differed by  $<2$  from the model with the highest AIC. Model fit

was considered significant if the  $\chi^2$  value of the reduced model was significantly different from the intercept-only model (Statistica 1995).

Significant ( $P < 0.1$ ) positive coefficients indicated selection and significant negative coefficients indicated avoidance. We used 2 X 2 contingency tables to measure the classification accuracy of the models. We also reported the “odds ratio,” which is an overall measure of goodness of fit based on the classification tables. Values  $>1$  suggested a model was better at predicting the classification of a location than expected by chance (Statistica 1995).

### **HABITAT CAPABILITY/SUITABILITY MODELLING AND MAPPING**

Development of the mountain caribou species-habitat model, consisting of a species account and habitat ratings table, followed the procedures outlined in British Columbia Wildlife Habitat Rating Standards (RIC 1999). First, we drafted a preliminary species account that outlined the life history and habitat requirements of mountain caribou in the project area. Second, we drafted the caribou habitat preliminary ratings table. This step involved using a 6-class rating scheme (from nil to high) matrix for each site series and structural stage that occurs in the project area. A project workshop was held in February 2000 where the preliminary ratings table was completed. Ratings were based on seasonal life requisites and habitat requirements outlined in the species account. Habitats were rated against a provincial benchmark that represented the highest capability habitat for caribou in the Province. Third, we conducted wildlife habitat ratings at caribou use sites. One member of each field crew was required to have had completed the Wildlife Habitat Rating Standards in British Columbia training course (RIC 1999) and was responsible for conducting the field ratings. Field data forms were checked and entered into the VENUS database. The species and rating assumptions in the species-habitat model were finalized based on field data correlations.

The 6-class habitat ratings system for the early winter, late winter, spring, and summer-fall seasons were applied to the Arrow predictive ecosystem map (Ketcheson et al. 2001, Smith and Wilson 2002) of the project area to provide a spatial representation of caribou habitat on TFL #23. Structural stages were inferred from projected forest ages from recent forest cover inventory data.

Caribou telemetry locations collected during the inventory study (Hamilton et al. 2000, Hamilton and Wilson 2002) were overlaid on the completed PEM with suitability ratings and examined graphically for goodness-of-fit. We pooled habitats rated *very high* and *high*, as well as those rated *low* and *very low*. We compared the proportion of locations in each habitat category (“used”) with the proportion of each habitat category on the study area (“available”). We excluded the area of the TFL north of the northernmost caribou location to avoid biasing the analysis with habitat outside the range of the herd. Differences in proportional use and availability were compared with Bonferroni-adjusted confidence intervals (Neu et al. 1974).

## RESULTS

### CARIBOU CAPTURE AND AERIAL MONITORING

Four caribou were net-gunned from a helicopter by Bighorn Helicopters staff on 12 April 2000. Two adult males and two adult females were fitted with VHF radio-collars in the following areas of TFL #23: Silvercup Ridge (2), Mohawk Creek (1), and height of land between Wilkie Creek and the Halfway River (1). A summary of caribou radio-collared during the study is found in Table 2.

**Table 2:** Caribou radio-collared during the Central Selkirks inventory project.

Identifier	Frequency	Date Collared	Location	Status	Sex
54	150.115	Feb-92	Duncan	Dead Oct-98	M
55	150.133	Feb-92	Duncan	Dead Jun-98	F
53	150.150	Feb-92	Duncan	Dead Mar-93	F
1	151.060	Mar-95	Fitzstubbs		M
2	151.070	Mar-95	Wood	Dead Jul-97	F
3	151.150	Mar-95	Ione Falls	Dead Jul-99	F
4	151.176	Mar-95	Wood	Dead Jul-97	F
5	151.015	Mar-95	St. Leon	Dead Feb-97	F
6	151.036	Mar-95	Turner		F
7	151.090	Mar-95	Cape Horn		M
8	151.099	Mar-95	Cape Horn/Wilkie	Dead Nov-97	F
9	151.045	Mar-95	Hill		F
10	151.079	Mar-95	Hill		M
11	151.119	Mar-95	Halfway	Dead Sep-97	F
12	151.184	Mar-95	Wilkie		F
13	151.130	Mar-95	Halfway	Dead Aug-95	F
14	151.110	Mar-95	Healy	Dead Aug-96	F
15	151.025	Mar-96	Lardeau	Dead May-99	F
16	150.810	Mar-96	Healy Ck.	Dead Jul-99	F
17	151.006	Mar-96	Pollman Ck.	Dead Mar-99	F
18	151.434	Mar-96	Payne Creek	Dead Sep-97	F
19	151.260	Mar-97	Mt. Goat Creek		F
20	151.110	Mar-97	Swedish	Dead Jan-98	F
21	151.206	Mar-97	Swedish		F
22	151.142	Mar-97	Mt. Johnson	Dead Jul-97	F
23	151.195	Mar-97	Mt. Johnson	Dead Apr-98	M
24	151.330	Mar-97	Tenderfoot	Dead Jul-99	F
25	151.412	Mar-97	Mobbs Ck.	Dead Aug-99	F
26	151.572	Apr-98	Hamling Lakes		F
27	151.482	Apr-98	Ranch Ridge		F
28	151.581	Apr-98	Ranch Ridge	Dead Aug-98	M
29	151.420	Apr-98	Silvercup		F
30	151.130	Apr-98	Upper St. Leon		M
31	151.350	Apr-98	Nacillewaet		M
32	151.590	Apr-98	St. Leon/Gardner		F
33	151.600	Apr-01	Wilkie/Halfway	Dead 02	M
34	151.301	Apr-01	Halfway		F
35	151.451	Apr-01	Silvercup		M
36	151.581	Apr-01	Silvercup	Dead 02	F

Eighty-six caribou telemetry locations were collected from 18 radio-collared animals during six telemetry flights conducted between 8 May and 28 November 2000. Flights occurred at approximately six-week intervals, with two flights in November. All but one caribou (#21, which was located twice) were located four to six times.

Major and minor travel routes in the project area (i.e., identified during the course of telemetry monitoring and field studies) are illustrated in Figure 2.

### **STAND LEVEL DATA COLLECTION AND RESOURCE SELECTION MODELLING**

Stand level attributes were sampled at 93 early winter caribou point locations, for a total of 121 sites sampled during 1998-2000. Fifty-seven random sites were also sampled in 2000, for a total of 210 random sites. Sites with missing data (n=61) were excluded from analyses (Table 3). No pairs of variables were highly correlated with each other (i.e.,  $r > 0.75$ ); therefore, all attributes were included in the initial model.

**Table 3:** Descriptive statistics of stand level attributes collected at early winter telemetry locations and random sites.

	<b>Telemetry sites (n=112)</b>				<b>Random sites (n=149)</b>			
	<b>Mean</b>	<b>Minimum</b>	<b>Maximum</b>	<b>SD</b>	<b>Mean</b>	<b>Minimum</b>	<b>Maximum</b>	<b>SD</b>
FLAT_ASP	0.24	0	1	0.43	0.19	0	1	0.40
WA_ASP	0.41	0	1	0.49	0.50	0	1	0.50
C_ASP	0.35	0	1	0.48	0.31	0	1	0.46
MOIST	3.54	1	7	1.14	3.44	1	6	1.06
NUTR	3.00	1	4	0.68	2.96	1	5	0.73
LEAD_BL	0.14	0	1	0.35	0.34	0	1	0.48
LEAD_HW	0.51	0	1	0.50	0.34	0	1	0.48
LEAD_SX	0.08	0	1	0.27	0.09	0	1	0.28
LEAD_CW	0.12	0	1	0.32	0.10	0	1	0.30
LEAD_FD	0.10	0	1	0.30	0.06	0	1	0.24
OTH_NONE	0.05	0	1	0.23	0.07	0	1	0.25
WINDTHRO	1.88	1	3	0.69	1.55	1	3	0.65
SLOPE_AV	45.28	0	95	23.63	44.86	0	99.5	21.19
CROWN_CL	58.70	10	96	29.35	57.80	2	96	27.72
SIGHT_AV	10.88	0	25	6.48	9.84	0	25	6.45
CWD	7.08	0	26	4.92	8.15	0	28	5.47
CWD_AVG	22.42	0	65.2	12.55	19.51	0	59	9.81
AGE	176.58	0	300	66.62	149.15	0	335	62.65
STEMS_HA	383.04	0	1050	242.57	218.29	0	1300	276.53
LICH_AVG	1.76	0	4.3	0.83	1.65	0	8.6	1.23
BRANCH_L	1.98	1	3	0.72	1.66	1	3	0.78

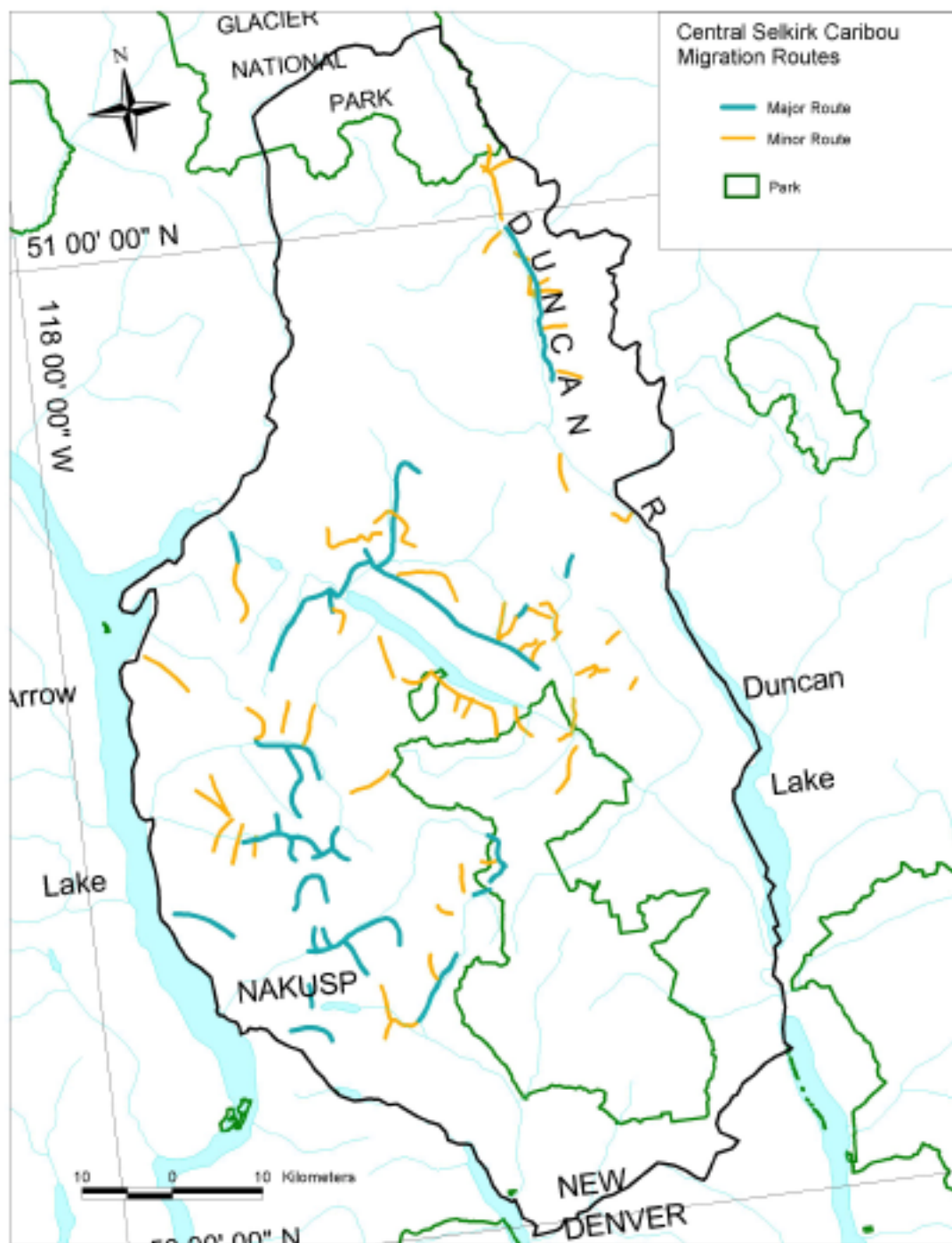
The final stand level model suggested that caribou used sites in early winter that were on gentler slopes (suggested by the negative coefficients for warm and cool aspects, indicating selection for aspects classified as “flat”), with more windthrow, lower crown closure, and fewer but larger pieces of coarse woody debris than random sites. Stands were also older, with more stems/ha, higher lichen loads, and more branch litterfall (Table 4). The model generated a significantly better fit than the intercept-only model ( $-2LL = 280$ ,  $\chi^2 = 79$ ,  $df = 11$ ,  $P < 0.000$ ), and correctly classified 70.2% of random and 78.6% of telemetry locations, for an odds ratio of 8.6.

**Table 4:** Resource selection coefficients and 95% confidence limits based on multiple logistic regression analysis of stand level attributes of early winter telemetry sites and random sites. Model fit was significantly better than the intercept-only model ( $-2LL = 280$ ,  $\chi^2 = 79$ ,  $df = 11$ ,  $P < 0.000$ ).

	Estimate	Lower CI	Upper CI	p
Intercept	-4.547	-6.219	-2.875	0.000
WA_ASP	-0.935	-1.727	-0.142	0.021
C_ASP	-0.768	-1.602	0.067	0.071
WINDTHRO	0.747	0.267	1.227	0.002
CROWN_CL	0.011	-0.001	0.023	0.069
CWD	-0.116	-0.182	-0.051	0.001
CWD_AVG	0.032	0.004	0.060	0.025
AGE	0.007	0.002	0.012	0.005
STEMS_HA	0.004	0.002	0.005	0.000
LICH_AVG	0.207	-0.085	0.498	0.165
BRANCH_L	0.325	-0.099	0.749	0.133

#### **HABITAT CAPABILITY/SUITABILITY MODELLING AND MAPPING**

The species account for mountain caribou that was drafted as part of the capability/suitability modelling exercise is presented in Appendix A.



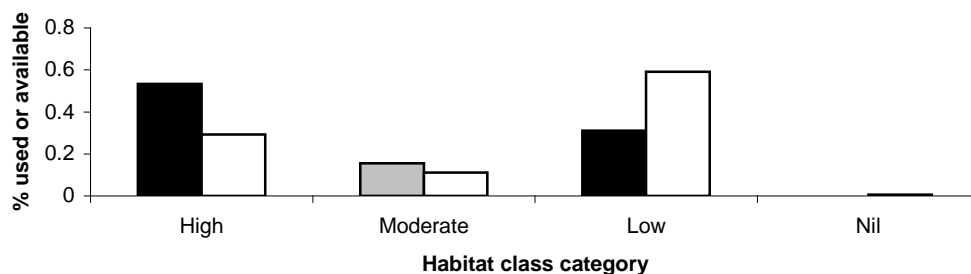
**Figure 2:** Major and minor travels routes of mountain caribou, estimated by observations of caribou and tracks during aerial surveys and ground sampling.

A workshop was held in Nelson on 5-6 February 2001 to define suitability ratings for mountain caribou in BEC zones, subzones, site series, and structural stages found on the project area (Appendix B). Although our focus was on the early winter season, we took the opportunity to define ratings for all seasons, as defined by Hamilton et al. (2000). Early winter (WE), late winter (WL), spring (P) and summer/fall (S/F) ratings were assigned according to the ability of a specific site series and structural stage to provide the seasonal “living” (RIC 1999) requirements for mountain caribou (Appendix A). Ratings were based on a consensus of opinion of experienced field personnel. The resultant capability/suitability habitat maps for the early winter, late winter, spring and summer/fall seasons are found in Appendices C – J.

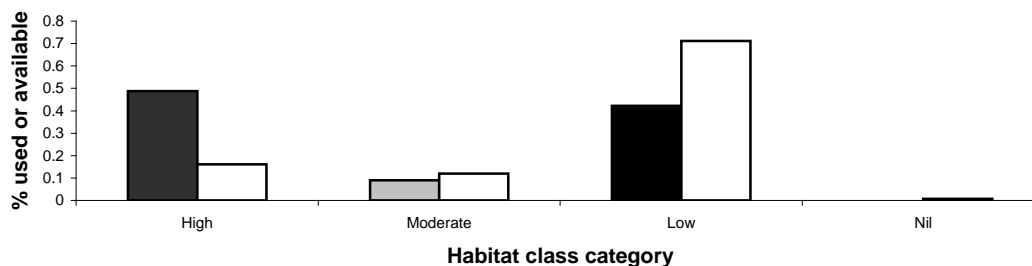
Suitability ratings were estimated at 49 caribou telemetry point locations during summer sampling. Thirty-six of 42 plots were assigned the same ratings in the field as in the preliminary ratings table, or were only one class different. There was no consistent bias in the ratings. Based on these results we made no further modifications to the ratings.

The rank order of selection by caribou in all seasons followed that expected by the habitat ratings. That is, high>moderate>low>nil in terms of relative use (Figure 3). Absolute use of low-rated habitats was higher than high-rated habitats in some seasons. Differences between “used” and “available” proportions were significant for high- and low-ranked habitats in all seasons except low-ranked habitats in spring and high-ranked habitats in summer/fall.

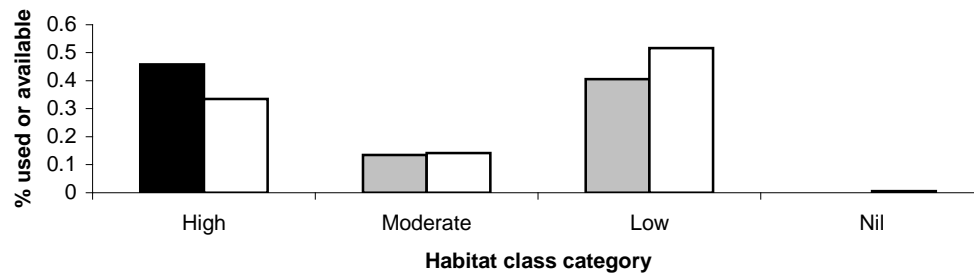
#### Early winter:



#### Late winter:



Spring:



Summer/fall:



**Figure 3:** Goodness-of-fit of caribou telemetry point locations to habitat ratings, grouping *high* and *moderately high*, and *low* and *moderately low*, into single high and low categories. Dark and white bars represent “used” and “available” proportions, respectively. Black bars indicate “used” proportions significantly different from “available” proportions, based on Bonferroni-adjusted confidence intervals ( $P < 0.10$ ,  $k = 3$ ; no use was recorded in habitats rated “nil”).

## DISCUSSION

The principal objective of this project was to collect additional data on mountain caribou habitat use, particularly during early winter, in order to refine modelling products that could be applied to habitat management on TFL #23. Adding four caribou to the radio-collared portion of the herd, conducting additional telemetry flights and field sampling of caribou use sites expanded our general knowledge of caribou ecology in the Central Selkirk Mountains.

### CARIBOU CAPTURE AND AERIAL MONITORING

During the November to January early winter period, only two of six telemetry flights were conducted, both in November. Poor weather conditions precluded aerial monitoring during December and January. It is during the early winter/late winter transition period that mountain caribou use a broad range of elevations and habitats; however, it is also the period when aerial telemetry sampling is most difficult due to weather conditions.

The addition of four collars in 2001 provided additional telemetry point locations and added to the marked population for the 2002 population census (Hamilton and Wilson in review). Although there were 18 collared caribou in the study area after caribou capture and collaring in



April 2001, only nine collars were active during the March 2002 census - two of those were collars added in 2001.

### **STAND LEVEL DATA COLLECTION AND RESOURCE SELECTION MODELLING**

Collecting stand level attributes at additional early winter caribou telemetry locations, as well as at additional random locations, improved the early winter stand level model. Variables in the final model were similar to those in the model based on 1998-99 data (Hamilton et al., 2000). The model had a slightly poorer fit than had the 1998-99 model, suggesting that the 1998-99 model might have been overfit to the smaller sample of early winter and random sites. Overfitting occurs when a model fits data from a small sample well, but extrapolates poorly to new observations. The model arising from this project should extrapolate better than the 1998-99 model and demonstrate better predictive power regarding caribou resource use.

The issue of overfitting is a common problem in modelling. When sample sizes are small, models may fit the sample data very well, but when applied to data not used to develop the models, the same models may perform poorly. This is because the models have been fit to whatever biases may exist in the small sample. When sample sizes are larger, the additional samples tend to “smooth out” these biases but also increase variances. As a result, model fit can become poorer with respect to data used to build the model, but better with respect to independent data.

### **HABITAT CAPABILITY/SUITABILITY MODELLING AND MAPPING**

The addition of seasonal capability/suitability models to the tools available to guide habitat management for mountain caribou on TFL #23 is significant. The large-scale suitability mapping (1:20,000) is appropriate for the spatial application of forest retention guidelines through forest development plans and silviculture plans at the operational and landscape unit planning levels. Capability mapping can support strategic resource decision-making and help analyze trade-offs in order to focus on long term management (e.g., wildlife habitat areas or potential rehabilitation areas). Using the standardized provincial approach to wildlife habitat ratings and mapping (RIC 1999) should also allow consideration of caribou management during Timber Supply Reviews.

The caribou habitat-species model (species account and ratings table) distils the broad experience acquired by researchers during >600 person-days in the field, and attempts to describe qualitatively habitat associations that are difficult to quantify. Some ratings were compared with field observations and found to fit well, but the sample sizes for this analysis were small, especially for the early winter period (November-January). Broad goodness-of-fit was assessed by examining caribou telemetry data in relation to the suitability maps. Overall fit to the models was good and the rank order of selection generally followed predictions for all seasons.

Use of forest cover in combination with ecosystem-based mapping allowed us to consider habitat attributes for caribou that were more related to stand structure than to ecosystem type. Because the ratings tables covered all structural stages, the models can also form the basis of habitat supply projections for mountain caribou.

## **CRITIQUE OF INVENTORY PROTOCOLS**

Protocols for telemetry monitoring, field sampling, and logistic regression modelling followed those in Hamilton et al. (2000). A critique of these methods can be found in that document.

With respect to the species-habitat model, the standardized provincial approach to wildlife-habitat modelling has a number of advantages:

1. Both habitat capability and current suitability can be mapped.
2. The method addresses both stand and landscape scales where PEM or TEM is available because ecosystem units are characterized at the stand scale but mapped at the landscape scale.
3. The methods can be extended to habitat supply modelling.
4. Ratings are easily tested with animal use data.
5. Ecosystem units are well-defined and consistent province-wide.
6. Ecosystem units and site modifiers accommodate inclusion of subtle but important site characteristics of habitat.

There are also a number of disadvantages to the method:

1. Ratings tables cannot be reproduced exactly by someone else if provided with the same data and methods.
2. Ratings tables can be difficult to update when new data become available.
3. Long tables can be plagued by inconsistencies.
4. Sometimes expert knowledge of animal behaviour can be wrong.

We have concluded that the method's advantages outweigh its disadvantages, particularly in projects (unlike this one) where only sparse animal use data are available or where assessing habitat capability or future suitability is required. This project presents the first integration of wildlife-habitat ratings with the Arrow PEM where goodness-of-fit was tested with extensive animal use data.

## **MANAGEMENT RECOMMENDATIONS**

The stand level model presented in this report is an updated version of the early winter model reported in Hamilton et al. (2000). Relationships explained by the model should be more reliable than those explained by the model based only on 1998-99 data. Management for caribou early winter habitat should give careful consideration to findings that caribou early winter use sites typically had more windthrow, coarse woody debris, structural diversity and arboreal lichens and were generally older, had lower crown closures and more stems/ha than randomly sampled sites. Project researchers also identified the importance of both the ICH and ICH/ESSF transition zone during the early winter period. Caribou use a broad elevation range (approximately 1200-1800 m) and a variety of different habitats during this transitional period.

The capability and suitability maps should be used as another tool for assessing land use impacts and decision-making on TFL #23. Other important tools include maps of radio-telemetry point distributions by season, maps of the quantitative models developed by Hamilton et al. (2000), and the map of major and minor movement corridors. Each provide separate but related lines of evidence that indicate areas on the landscape that are important to mountain caribou.

The suitability and capability standardized mapping should be extended beyond the boundaries of TFL #23 to other parts of the Central Selkirk caribou range. This will require possible

improvements to the existing PEM and additions/refinements to the species-habitat model (species account and ratings table). Ultimately, the species-habitat model and capability/suitability habitat maps could be used to project caribou habitat supply under a number of forest management scenarios. The use of the provincial standardized approach to habitat mapping should have further applicability to Timber Supply Reviews.

Caribou have been the focus of forestry-related research for many years. However, there are growing concerns regarding the impacts associated with winter backcountry recreation use (e.g., heli-skiing, snow-cat skiing, snowmachining, backcountry skiing, commercial recreation developments). The extent and effects of these impacts are largely unknown and were not incorporated in the wildlife habitat ratings. Other issues such as annual variation in snowpack (and implications for lichen availability) and long-term changes in the abundance and distribution of predators were not considered and require further study.

Recent census data suggest that the Central Selkirk caribou population is in decline (Hamilton and Wilson 2002). Information presented in this report and available elsewhere should be used to conduct a formal cumulative effects assessment in order to hypothesize reasons for the recent decline. In addition, the frequency of aerial survey should increase, particularly if no additional animals are collared (Hamilton and Wilson 2002).

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## APPENDIX A

### SPECIES-HABITAT MODEL

#### Species Account for Mountain Caribou of the Central Selkirks

##### Species data

Common Name: Mountain caribou  
Scientific Name: *Rangifer tarandus caribou* (mountain ecotype)  
Species Code: M-RATA  
BC Status: Red-listed (BC Conservation Data Centre, 2000)  
Identified Wildlife Status: No  
COSEWIC Status: Designated as vulnerable in Canada (COSEWIC, 2000)

##### Project data

Area: Central Selkirks  
Ecoprovince: Southern Interior Mountains  
Ecoregions: Northern Columbia Mountains  
Ecosections: Central Columbia Mountains and Northern Kootenay Mountains  
BEC variants: ICHmw2, ICHmw3, ICHvk1, ICHwm, ICHdw, IDF, ESSFwc2, ESSFwc1, ESSFwc4, ESSFwcp, AT  
Map Scale: 1:20,000

### DISTRIBUTION

#### Provincial Range

Two subspecies of caribou, Dawson's (*R.t. dawsoni*) and woodland caribou (*R.t. caribou*), are recognized in British Columbia. Inhabiting only Graham Island on the Queen Charlotte Islands, Dawson's caribou has been extinct since 1910. Mountain caribou are found throughout the northern boreal zones of British Columbia and as far south as Tweedsmuir Provincial Park and in the southern Kootenays where caribou exist in small, isolated populations (McTaggart-Cowan and Guiguet 1965, Nagorsen 1990). Southern interior areas important to mountain caribou include the Purcell, Selkirk and Monashee Ranges, Nelson Mountains, Wells Gray Park, Quesnel Highlands and the eastern slope of the Coast Mountains.

#### Provincial Context

Mountain caribou have recently been red-listed in British Columbia, which means they are considered threatened or endangered. It is estimated that about 2,300 mountain caribou are currently distributed among 13 sub-populations in central and southeastern British Columbia (Simpson et al. 1997). Of these the Kootenay region supports an estimated 800 caribou (Simpson et al. 1997, Hamilton et al. 2000). The Central Selkirk caribou sub-population is estimated at 213

(1999) caribou (Hamilton et al. 2000) and is ranked sixth out of the 13 sub-populations in terms of conservation priority for management (Simpson et al. 1997).

### Distribution in the Project Area

The TFL#23 project area encompasses roughly 25% of the known habitat identified for the Central Selkirks mountain caribou sub-population. Caribou are distributed throughout the project area and includes use of portions of the Northern Kootenay Mountains and Central Columbia Mountains ecosections and biogeoclimatic variants as summarized in Table 1 below.

**Table 1:** Expected Occurrence of Mountain Caribou in Ecological Units of the Central Selkirks.

Ecoprovince	Ecoregion	Ecosections	BEC variants	Expected Occurrence
Southern Interior	Northern Columbia	Central Columbia Mountains (CCM)	AT	√
			ESSFwc	√
			ESSFwcp	√
			ICHmw2	√
			ICHmw3	√
			ICHvk1	√
			ICHwk1	√
			ICHdw	√
			IDF	X
	Northern Kootenay Mountains (NKM)		AT	√
			ESSFwm	√
			ESSFwc1	√
			ESSF wc4	√
			ESSFwcp	√
			ICHmw2	√
			ICHmw3	√
			ICHvk1	√
			ICHwk1	√

### ECOLOGY

Mountain caribou, an ecotype of woodland caribou (*Rangifer tarandus caribou*), inhabit the mountainous terrain of southeastern and east-central British Columbia (Stevenson et al. 2001). These areas include the moist coniferous forests of the Columbia and Rocky Mountains of southeastern British Columbia and northern Idaho. The mountain caribou ecotype is associated with late-successional forests that support arboreal lichens *Bryoria* spp and *Alectoria sarmentosa* – their primary winter forage (Stevenson and Hatler 1985, Antifeau 1987, Stevenson et al. 2001). Because of this seasonal dependence on arboreal lichens provided in mature/old forests, and other aspects of their ecology, mountain caribou may be susceptible to the loss of effective habitat through forest harvesting and perhaps by displacement caused by human disturbance (Stevenson et al. 1994, Simpson et al. 1997, Stevenson et al. 2001).

### Seasonal Migrations

The mountain caribou of southeastern BC spend most of the year in high elevation sub-alpine forest and alpine habitats, descending to low elevation forests during early winter and spring



periods because of snow conditions (Simpson and Woods 1987, Stevenson and Hatler 1985). Caribou inhabiting rugged mountainous terrain, similar to that of the project area, use seasonal habitats within the full range of elevations from low-elevation cedar/hemlock to mid and high elevation spruce/fir forests, including fir/spruce parkland habitats. Although the times of seasonal migrations and habitat use by caribou may vary between populations, four seasonal habitat use patterns are generally recognized (Stevenson and Hatler 1985, Simpson and Woods 1987, McLellan et al. 1994). These four periods are late winter, spring, summer/fall and early winter. American research biologists consider calving to be a fifth seasonal habitat for the South Selkirk caribou population (Scott and Serhveen 1985).

Winter snow depth and snow consolidation is an important factor that influences caribou habitat use and seasonal migrations within the Central Selkirks. In early winter, until the snow consolidates or hardens, caribou use mid to low elevation habitats where dense forest canopies reduce ground snow depths and allow animals greater mobility and access to forage (vegetation, lichen on litterfall and blowdown). The greatest use during the early winter appears to be in the ICH/ESSF transition zones (Hamilton et al. 2000). By late winter, when the snow has hardened, caribou migrate to higher elevation ESSF and ESSF parkland habitats where the animals rely entirely on arboreal lichens for food.

## **Home Ranges**

Caribou generally exhibit seasonal migration patterns within their annual home ranges, but large variations over and among years is common (Paquet 1997). Studies in Revelstoke by Simpson and Woods (1987) reported that caribou annual home range size varied from 112 km<sup>2</sup> to 860 km<sup>2</sup>. The South Selkirk mountain caribou sub-population exhibit annual home ranges from 131 km<sup>2</sup> to 173 km<sup>2</sup> (Scott and Servheen 1985). For the Central Selkirk caribou, Hamilton et al. (2000) reported multi-year home ranges were approximately twice the size of annual home ranges, and that annual home ranges varied considerably between years and within years among caribou. For example, male home ranges (annual:  $x = 218 \pm 51$  km<sup>2</sup>, multi-year:  $x = 445 \pm 83$  km<sup>2</sup>) were generally larger than females ranges (annual:  $x = 167 \pm 20$  km<sup>2</sup>, multi-year:  $x = 330 \pm 47$  km<sup>2</sup>; annual:  $n = 54$ ,  $t = 1.53$ ,  $P = 0.14$ ; multi-year:  $n = 30$ ,  $t = 1.99$ ,  $P = 0.08$ ).

## **Reproduction**

The breeding season is in late autumn with gestation averaging seven to eight months. Calves are born in late May to early June and a cow will average only six calves over her lifetime. Single births are most common. Calves are conspicuous and must be able to travel with cows almost immediately after birth (Hunter 1972). The migration of caribou to seasonal habitats and upper-elevation calving areas is attributed to predator avoidance (Seip and Cichowski 1994).

## **LIFE REQUISITES**

The Central Selkirks caribou inventory project assessed mountain caribou habitat use and population characteristics in the project area (Hamilton et al.. 2000). Caribou require terrestrial vegetation and arboreal lichen for food, cover to provide for protection from predators and climatic elements, water and the spatial arrangement of these life requisites over four distinct seasons of use.

## **Feeding (FD) Habitat**

Feeding requirements for mountain caribou are tied closely to food availability, particularly arboreal lichen feeding during the critical winter period.

### **Early Winter**

Caribou populations in high snowpack ecosystems make early-winter movements to mid and lower elevations and remain there until snow depths and surface hardness enable sufficient mobility (Simpson et al. 1985, Antifeau 1987). Early winter forage habitats are dominated by *Paxistima myrsinoides* and *Pyrola* species (Servheen and Lyon 1989, Simpson et al. 1997). As snowpack increases, caribou shift their diet to arboreal lichen (*Alectoria* spp and *Bryoria* spp) obtained from litterfall and on windthrow trees or branches (Simpson et al. 1985, Antifeau 1987, Rominger and Oldemeyer 1989, Hamilton et al. 2000).

### **Late Winter**

Movement of mountain caribou to late-winter ESSF/parkland habitat occurs when the snow pack deepens and consolidates, allowing movement on top of the snow and enabling the caribou to reach the lichen-bearing portion of the forest canopy (Scott and Servheen 1985, Simpson et al. 1985, Rominger and Oldemeyer 1989, Servheen and Lyon, 1989). Lichens on windthrown trees and litterfall are used when available, but the major source of food during late winter is arboreal lichens found on both living and dead standing trees (Simpson et al. 1985, Antifeau 1987, Hamilton et al. 2000).

### **Spring**

Spring feeding sites consist of the first snow free areas that have recently greened-up. This is important for animals recovering weight lost from a winter-long lichen diet, and for cows preparing for the heavy demands of lactation in food-deficient calving areas (Scott and Servheen 1985). Snow-covered calving areas typically have high lichen densities to feed on because vascular forage is not available (Scott and Servheen 1985, Servheen and Lyon 1989).

### **Summer/Fall**

Summer/fall forage includes a wide range of herbaceous green vegetation and shrubs including grasses, sedges, buds, lichens and flowering plants (Hamilton et al. 2000). Because food is available almost everywhere, caribou are widely distributed and generally in smaller group sizes than in winter. This may be primarily an effort to avoid potential predators (wolves, wolverine, cougars and grizzly bears).

## **Security (SH) Habitat**

Caribou prefer areas with high visibility for predator detection (e.g., they tend to avoid areas where tall shrubs, conifer regeneration, or other obstructions restrict horizontal visibility (Stevenson et al. 1994, Hamilton et al. 2000). Older forest habitats characterized by low shrub cover, low levels of conifer regeneration and gentle to moderate slopes characterize good security cover habitat areas for caribou. These late-succession forest stands use for cover also tend to support the arboreal lichen forage important to caribou.

## Thermal (TH) Habitat

Thermal habitat allows caribou to expend less energy to maintain body temperature and allow allocation of conserved energy to growth and reproduction. Thermal cover is considered an important component of ungulate habitat. It has been defined as overstory vegetation that, for a given combination of solar radiation flux density, ambient air temperature and wind speed, allows an animal to remain in its thermoneutral zone (air temperatures in which animals exist most comfortably) or minimize thermoregulatory costs (Demarchi and Bunnell 1993). Thermal cover also provides snow interception that can lower an animal's energy expenditures for locomotion (Parker et al. 1984). Energy is a limiting factor under adverse environmental conditions for many ungulates. In summer, increased metabolic costs associated with heat dissipation can translate into decreased summer weight gain while in winter animals lacking sufficient energy reserves are more vulnerable to winter-spring mortality (Mautz 1978).

Mature to old forests appear to provide caribou thermal habitat in all seasonal habitats. Such forests also provide snow interception, greater mobility and forage availability during winter.

## Combining Life Requisites

Caribou feeding habitat is associated with habitat that provides security and thermal cover. Arboreal lichens, the primary food source during winter, are associated with mature and old growth forests that have both thermal and security cover attributes. In addition, spring foraging sites appear to be selected more for their forage availability than for their cover attributes. As a result, habitat ratings for living were weighted 80% in favour of feeding (FD) and 20% in favour of security/thermal cover.

## SEASONS OF USE

Based on results reported by Hamilton et al. (2000), we identified 4 seasons of habitat use for mountain caribou in the Central Selkirks (Table 2).

**Table 2:** Seasonal habitat use patterns for mountain caribou in the Central Selkirks.

Season	Code	Dates
early winter	WE	October 25 – January 15
late winter	WL	January 16 – May 12
Spring	P	May 13 – June 30
summer fall	S/F	July 1 – October 24

Mountain caribou require primarily feeding habitat in winter and feeding and security/thermal habitat for the spring, summer and fall growing season (Table 3).

**Table 3: Monthly Life Requisites for Mountain Caribou.**

Life Requisite	Month	Season
Feeding	January	early winter/late winter
Feeding	February	late winter
Feeding	March	late winter
Feeding	April	late winter
feeding/security/calving	May	late winter/spring
feeding/security/calving	June	spring
living	July	summer
living	August	summer
living	September	summer/fall
living	October	fall/early winter
feeding	November	early winter
feeding	December	early winter

**Early Winter** (October 25 – January 15)

- important period when animals are forced into mid to lower elevation forest habitats by unconsolidated snow accumulations at higher elevations
- valley bottoms and gentle to moderate slope forest habitats in lower ICH zone and ESSF/ICH ecotone (wet, cool sites)
- selected habitats usually consisting of closed crown, older age class forests (snow interception and thermal cover, reduce ground snow accumulations, old growth structural attributes) and low shrubs (not tall shrubs or conifers), particularly *Paxistima myrsinites* and *Pyrola* species
- feed on *Paxistima*, sedges and other vegetation when not snow covered, otherwise rely on arboreal lichens from standing trees and/or fallen or windthrown lichen-bearing trees and branches

**Late Winter** (January 16 – May 12)

- migrate from lower elevation forest habitats to high elevation forested ESSF/ESSF parkland habitats when snow conditions allows animals easy travel on top of consolidated snow
- high elevation mature to old growth ESSF and ESSF parkland habitats characterized by moderate slope, open canopies (20-50 percent crown closure) and low basal area
- feed entirely on arboreal lichens (primarily *Bryoria* spp and *Alectoria sarmentosa*) found on live and dead standing trees, blowdown and litterfall

**Spring** (May 13 – June 30)

- migrate from higher elevation habitats to lower elevation snow-free habitats when snow conditions at higher elevations become restrictive to movement and access to arboreal lichens is reduced

- in snow-free habitats in the ICH and ICH/ESSF ecotone, caribou select sites where obstructions to visibility and movement are low (e.g., closed canopy forest habitats, gentle to moderate slopes, cool, moist sites)
- pregnant cows may again move from lower elevation habitats with easy mobility and food quality to food-limiting but predator-free higher elevation habitats for calving. Calving usually occurs in the ESSF or AT, at or near the snowline, in secluded areas in proximity with adequate security forest cover attributes
- forage includes arboreal lichens in snow covered habitats and new green vegetation in snow free habitats. Use of snow covered areas that support abundant lichen production is important because vascular forage availability may be low due to ground snow cover but pregnant cow energy demand is high

#### **Summer/Fall (July 1 – October 24)**

- use of upper ESSF and AT zones, particularly relatively open, older age class forest stands in association with seeps, bogs and riparian type habitats where vegetation is succulent and abundant
- Forage includes a wide range of herbaceous green vegetation and shrubs including grasses, sedges, buds, lichens and flowering plants

### **ECOSYSTEM ATTRIBUTES**

**Table 4:** Predictive Ecosystem Mapping (PEM) Relationships and Life Requisites for Mountain Caribou in the Central Selkirks.

<b>Life Requisite</b>	<b>PEM Attributes</b>
living habitat (feeding)	<ul style="list-style-type: none"> <li>• <i>site</i>: structural stage, elevation, slope, aspect</li> <li>• <i>soil/terrain</i>: moisture regime, bedrock, terrain texture</li> <li>• <i>vegetation</i>: species composition, lichen abundance</li> <li>• <i>mensuration</i>: tree species composition, density, blowdown, lichen abundance</li> </ul>
living habitat (security/thermal)	<ul style="list-style-type: none"> <li>• <i>site</i>: structural stage, slope, elevation</li> <li>• <i>soil/terrain</i>: moisture regime</li> <li>• <i>vegetation</i>: % cover by layer</li> <li>• <i>mensuration</i>: tree species, density, crown closure</li> </ul>

### **RATINGS**

#### **Provincial Benchmark**

The Cariboo Mountains (CAM) ecosection is the provincial benchmark for mountain caribou. Both the CAM and NKM ecosections accommodate Class 1 ratings for caribou in ESSF for the winter and growing seasons.

#### **Ratings Assumptions**

Life requisites and habitat uses were lumped as outlined above. Industrial and secondary roads are assumed to have no effect on habitat ratings. Recreation impacts (e.g., commercial heliskiing, snow-cat skiing and snowmobile use) are not considered in the ratings because intensity, extent and duration of these activities are difficult to validate and map.

CLASS 1:			
Season	Life Requisite	Structural Stage	Requirements
early winter	feeding (FD)	6-7	<ul style="list-style-type: none"> <li>abundant lichen available on standing live and dead trees, litterfall and windthrow</li> <li><i>paxistima myrsinites</i> or <i>pyrola</i> presence</li> <li>&lt;80% slope</li> <li>mesic to subhygric</li> <li>medium to high blowdown potential</li> </ul>
late winter	feeding (FD)	all	<ul style="list-style-type: none"> <li>abundant lichen</li> <li>presence of white bark pine (preferred)</li> <li>gentle, rolling terrain</li> <li>mesic to subhygric</li> </ul>
spring	feeding (FD)	2-3, 6-7	<ul style="list-style-type: none"> <li>abundant lichen and litterfall</li> <li>mesic to subhygric</li> <li>&lt;80% slope</li> <li>early green-up sites</li> </ul>
summer/fall	feeding (FD) security (SH)	2-3, 6-7	<ul style="list-style-type: none"> <li>&lt;80% slope</li> <li>mesic to subhygric</li> <li>abundant vegetation</li> <li>abundant lichen and litterfall</li> <li>cooler aspects</li> </ul>

CLASS 2:			
Season	Life Requisite	Structural Stage	Requirements
early winter	feeding (FD)	6-7	<ul style="list-style-type: none"> <li>abundant lichen available on live and dead trees, litterfall and windthrow</li> <li><i>paxistima myrsinites</i> or <i>pyrola</i> presence</li> <li>&gt;subhygric + &lt;subxeric than Class 1</li> <li>&lt;100% slope</li> <li>medium probability of blowdown</li> </ul>
late winter	feeding (FD)	6-7	<ul style="list-style-type: none"> <li>abundant lichen</li> <li>&lt;80% slope</li> <li>presence of whitebark pine (preferred)</li> </ul>
spring	feeding (FD)	all	<ul style="list-style-type: none"> <li>medium to high lichen abundance and litterfall</li> <li>submesic to hygric</li> <li>&lt;100% slope</li> <li>early green-up sites</li> </ul>
summer/fall	feeding (FD) security (SH)	all	<ul style="list-style-type: none"> <li>mesic to hygric</li> <li>&lt;100% slope</li> <li>abundant vegetation</li> <li>abundant lichen and litterfall</li> </ul>

CLASS 3:			
Season	Life Requisite	Structural Stage	Requirements
early winter	feeding (FD)	2-3, 6-7	<ul style="list-style-type: none"> <li>&gt;100% slope</li> <li>structural stages 6-7 that are either wetter or drier than Class 2</li> </ul>
late winter	feeding (FD)	all	<ul style="list-style-type: none"> <li>less lichen abundance</li> <li>&lt;100% slope</li> </ul>
spring	feeding (FD)	all	<ul style="list-style-type: none"> <li>structural stages 6-7 that are subxeric to subhygric</li> <li>&gt;100% slope</li> </ul>
summer/fall	feeding (FD) security (SH)	all	<ul style="list-style-type: none"> <li>&gt;100% slope</li> <li>structural stages 6-7 that are submesic</li> </ul>

CLASS 4:			
Season	Life Requisite	Structural Stage	Requirements
early winter	feeding (FD)	5-7	<ul style="list-style-type: none"> <li>less abundance in litterfall/blowdown due to decrease in trees</li> <li>&gt;100% slope</li> <li>less lichen</li> </ul>
late winter	feeding (FD)	5-7	<ul style="list-style-type: none"> <li>limited lichen production</li> <li>&gt;100% slope</li> </ul>
spring	feeding (FD)	all	<ul style="list-style-type: none"> <li>less lichen and vegetation</li> <li>&gt;100% slope</li> <li>northerly aspects</li> </ul>
summer/fall	feeding (FD) security (SH)	all	<ul style="list-style-type: none"> <li>less lichen and vegetation</li> <li>&gt;100% slope</li> </ul>

CLASS 5:			
Season	Life Requisite	Structural Stage	Requirements
early winter	feeding (FD)	2-5	<ul style="list-style-type: none"> <li>limited food, cover</li> <li>lichen almost lacking from stand</li> </ul>
late winter	feeding (FD) migrate (MS)	all	<ul style="list-style-type: none"> <li>limited food, cover</li> <li>potential travel</li> </ul>
spring	feeding (FD) migrate (MS)	all	<ul style="list-style-type: none"> <li>limited food, cover</li> <li>potential travel</li> </ul>
summer/fall	feeding (FD) migrate (MS)	all	<ul style="list-style-type: none"> <li>limited food, cover</li> <li>potential travel</li> <li>cold aspect</li> </ul>

CLASS 6:			
Season	Life Requisite	Structural Stage	Requirements
all			non habitat (e.g., no food or shelter available, impassable terrain such as lakes, cliffs, etc.)

## Ratings Table

See Appendix B.

## Ratings Adjustments

A summary of the ratings adjustments applied to the capability/suitability mapping is provided in Table 5. The summer fall ratings for the ICH have been adjusted to reflect that although food is abundant and available in the ICH, it does not reflect caribou habitat use or selection during this period. Upper elevation ESSF parkland and alpine areas are preferred by caribou during the summer/fall period, primarily to avoid predators and increase calf survival (Seip and Cichowski 1994, Stevenson and Hatler 1985).

**Table 5:** Habitat ratings adjustments.

Issue	Description	Season(s)	Suitability Rating Adjustment
highways	< 100 m of provincial highways	all	<1 class
urban	<1 km from urban and rural developments	all	<2 classes
Summer/fall caribou habitat in ICH	Suitability of this habitat is low because of predator pressure and the availability of alternate food sources at higher elevations	Summer/Fall	Class 1=class 4 in all ICH zones Class 2=class 3 in all ICH zones
Duncan River	Duncan River and all its' tributaries has lower suitability because of the generally colder and wetter climate and rugged landscape that isolates pockets of seasonal habitat	all	<1 class for classes 1 through 4 for all seasons.

## RELIABILITY QUALIFIER

A reliability qualifier of *high* was assigned to reflect the confidence of the species-habitat model (RIC 1999). Species-habitat relationship information was based on a long-term caribou inventory study initiated in 1995, stand, landscape and multi-scale habitat models, population censuses, field sampling and expertise gained over the term of the project. The project biologist also has experience with mountain caribou management throughout the Kootenay region, provincially and internationally. A reliability qualifier of *medium* was assigned to the accuracy of the PEM-based ecosystem classifications, in light of deficiencies highlighted in Smith and Wilson (2002).



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## APPENDIX B

### SPECIES-HABITAT MODEL Habitat Ratings Table for Mountain Caribou of the Central Selkirks

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	AT					LA					6	5	6	6
CCM	AT				01	AH					6	5	5	4
CCM	AT				01	AH	k				6	5	5	5
CCM	AT				01	AH	q				6	6	6	6
CCM	AT				01	AH	w				6	5	5	4
CCM	AT				01	AH	z				6	6	6	6
CCM	AT				22	RU					6	5	5	6
CCM	AT				22	RU	k				6	5	5	6
CCM	AT				22	RU	q				6	6	6	6
CCM	AT				22	RU	w				6	5	5	6
CCM	AT				22	RU	z				6	6	6	6
CCM	AT				44	TA					6	5	5	6
CCM	AT				44	TA	k				6	5	5	6
CCM	AT				44	TA	q				6	6	6	6
CCM	AT				44	TA	w				6	5	5	6
CCM	AT				44	TA	z				6	6	6	6
CCM	AT				99	RO					6	5	5	6
CCM	AT				99	RO	k				6	5	5	6
CCM	AT				99	RO	q				6	6	6	6
CCM	AT				99	RO	w				6	5	5	6
CCM	AT				99	RO	z				6	6	6	6
CCM	ESSF	wc	1		01	LA					6	5	6	6
CCM	ESSF	wc	1		01	FR			2		5	5	5	5
CCM	ESSF	wc	1		01	FR			3		5	5	5	5
CCM	ESSF	wc	1		01	FR			4		5	5	5	5
CCM	ESSF	wc	1		01	FR			5		5	5	5	5
CCM	ESSF	wc	1		01	FR			6		4	4	4	4
CCM	ESSF	wc	1		01	FR			7		3	3	3	3
CCM	ESSF	wc	1		01	FR	k		2		5	5	5	5
CCM	ESSF	wc	1		01	FR	k		3		5	5	5	5
CCM	ESSF	wc	1		01	FR	k		4		5	5	5	5
CCM	ESSF	wc	1		01	FR	k		5		5	5	5	5
CCM	ESSF	wc	1		01	FR	k		6		4	4	4	4
CCM	ESSF	wc	1		01	FR	k		7		3	3	3	3
CCM	ESSF	wc	1		01	FR	w		2		5	5	5	5
CCM	ESSF	wc	1		01	FR	w		3		5	5	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ESSF	wc	1		01	FR	w		4		5	5	5	5
CCM	ESSF	wc	1		01	FR	w		5		5	5	5	5
CCM	ESSF	wc	1		01	FR	w		6		4	4	4	4
CCM	ESSF	wc	1		01	FR	w		7		3	3	3	3
CCM	ESSF	wc	1		02	FF			2		5	5	5	5
CCM	ESSF	wc	1		02	FF			3		5	5	5	5
CCM	ESSF	wc	1		02	FF			4		5	5	5	5
CCM	ESSF	wc	1		02	FF			5		5	5	5	5
CCM	ESSF	wc	1		02	FF			6		4	4	4	4
CCM	ESSF	wc	1		02	FF			7		3	3	3	3
CCM	ESSF	wc	1		02	FF	k		2		5	5	5	5
CCM	ESSF	wc	1		02	FF	k		3		5	5	5	5
CCM	ESSF	wc	1		02	FF	k		4		5	5	5	5
CCM	ESSF	wc	1		02	FF	k		5		5	5	5	5
CCM	ESSF	wc	1		02	FF	k		6		4	4	4	4
CCM	ESSF	wc	1		02	FF	k		7		3	3	3	3
CCM	ESSF	wc	1		02	FF	q		2		5	5	5	5
CCM	ESSF	wc	1		02	FF	q		3		5	5	5	5
CCM	ESSF	wc	1		02	FF	q		4		5	5	5	5
CCM	ESSF	wc	1		02	FF	q		5		5	5	5	5
CCM	ESSF	wc	1		02	FF	q		6		5	4	5	5
CCM	ESSF	wc	1		02	FF	q		7		5	4	5	5
CCM	ESSF	wc	1		02	FF	w		2		5	5	5	5
CCM	ESSF	wc	1		02	FF	w		3		5	5	5	5
CCM	ESSF	wc	1		02	FF	w		4		5	5	5	5
CCM	ESSF	wc	1		02	FF	w		5		5	5	5	5
CCM	ESSF	wc	1		02	FF	w		6		4	4	4	4
CCM	ESSF	wc	1		02	FF	w		7		3	3	3	3
CCM	ESSF	wc	1		02	FF	z		2		5	5	5	5
CCM	ESSF	wc	1		02	FF	z		3		5	5	5	5
CCM	ESSF	wc	1		02	FF	z		4		5	5	5	5
CCM	ESSF	wc	1		02	FF	z		5		5	5	5	5
CCM	ESSF	wc	1		02	FF	z		6		5	4	5	5
CCM	ESSF	wc	1		02	FF	z		7		5	4	5	5
CCM	ESSF	wc	1		03	FD			2		5	5	3	3
CCM	ESSF	wc	1		03	FD			3		5	5	3	3
CCM	ESSF	wc	1		03	FD			4		5	5	5	5
CCM	ESSF	wc	1		03	FD			5		4	5	4	4
CCM	ESSF	wc	1		03	FD			6		3	5	3	3
CCM	ESSF	wc	1		03	FD			7		2	4	2	2
CCM	ESSF	wc	1		03	FD	k		2		5	5	3	3
CCM	ESSF	wc	1		03	FD	k		3		5	5	3	3
CCM	ESSF	wc	1		03	FD	k		4		5	5	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ESSF	wc	1		03	FD	k		5		4	5	4	4
CCM	ESSF	wc	1		03	FD	k		6		3	5	3	3
CCM	ESSF	wc	1		03	FD	k		7		2	4	2	2
CCM	ESSF	wc	1		03	FD	w		2		5	5	3	3
CCM	ESSF	wc	1		03	FD	w		3		5	5	3	3
CCM	ESSF	wc	1		03	FD	w		4		5	5	5	5
CCM	ESSF	wc	1		03	FD	w		5		4	5	4	4
CCM	ESSF	wc	1		03	FD	w		6		3	5	3	3
CCM	ESSF	wc	1		03	FD	w		7		2	4	2	2
CCM	ESSF	wc	1		04	FH			2		5	5	3	3
CCM	ESSF	wc	1		04	FH			3		5	5	3	3
CCM	ESSF	wc	1		04	FH			4		5	5	5	5
CCM	ESSF	wc	1		04	FH			5		4	5	4	4
CCM	ESSF	wc	1		04	FH			6		3	5	3	3
CCM	ESSF	wc	1		04	FH			7		2	4	2	2
CCM	ESSF	wc	1		05	SS			2		5	5	4	4
CCM	ESSF	wc	1		05	SS			3		5	5	4	4
CCM	ESSF	wc	1		05	SS			4		5	5	5	5
CCM	ESSF	wc	1		05	SS			5		5	5	5	5
CCM	ESSF	wc	1		05	SS			6		5	4	4	4
CCM	ESSF	wc	1		05	SS			7		5	4	4	4
CCM	ESSF	wc	1		22	RU					5	5	5	5
CCM	ESSF	wc	1		22	RU	k				5	5	5	5
CCM	ESSF	wc	1		22	RU	q				5	5	5	5
CCM	ESSF	wc	1		22	RU	w				5	5	5	5
CCM	ESSF	wc	1		22	RU	z				5	5	5	5
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CCM	ESSF	wc	1		77	AC			3		5	5	2	2
CCM	ESSF	wc	1		77	AC	k		2		5	5	3	1
CCM	ESSF	wc	1		77	AC	k		3		5	5	3	1
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CCM	ESSF	wc	1		77	AC	q		3		5	5	4	3
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CCM	ESSF	wc	1		77	AC	w		3		5	5	3	4
CCM	ESSF	wc	1		77	AC	z		2		5	5	4	5
CCM	ESSF	wc	1		77	AC	z		3		5	5	4	5
CCM	ESSF	wc	1		99	RO					5	5	5	5
CCM	ESSF	wc	1		99	RO	k				5	5	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ESSF	wc	1		99	RO	q				6	6	6	6
CCM	ESSF	wc	1		99	RO	w				5	5	5	5
CCM	ESSF	wc	1		99	RO	z				6	6	6	6
CCM	ESSF	wc	4			LA					6	5	6	6
CCM	ESSF	wc	4		01	FR			2		5	5	5	5
CCM	ESSF	wc	4		01	FR			3		5	5	5	5
CCM	ESSF	wc	4		01	FR			4		5	5	5	5
CCM	ESSF	wc	4		01	FR			5		4	4	4	4
CCM	ESSF	wc	4		01	FR			6		3	2	3	3
CCM	ESSF	wc	4		01	FR			7		2	1	2	3
CCM	ESSF	wc	4		01	FR	w		2		5	4	5	5
CCM	ESSF	wc	4		01	FR	w		3		5	4	5	5
CCM	ESSF	wc	4		01	FR	w		4		5	4	5	5
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CCM	ESSF	wc	4		01	FR	k		3		5	5	5	5
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CCM	ESSF	wc	4		01	FR	k		5		4	4	4	4
CCM	ESSF	wc	4		01	FR	k		6		3	2	3	3
CCM	ESSF	wc	4		01	FR	k		7		2	2	2	3
CCM	ESSF	wc	4		02	FF			2		5	5	5	5
CCM	ESSF	wc	4		02	FF			3		5	5	5	5
CCM	ESSF	wc	4		02	FF			4		5	5	5	5
CCM	ESSF	wc	4		02	FF			5		5	5	5	5
CCM	ESSF	wc	4		02	FF			6		4	2	4	5
CCM	ESSF	wc	4		02	FF			7		4	2	4	4
CCM	ESSF	wc	4		02	FF	k		2		5	5	5	5
CCM	ESSF	wc	4		02	FF	k		3		5	5	5	5
CCM	ESSF	wc	4		02	FF	k		4		5	5	5	5
CCM	ESSF	wc	4		02	FF	k		5		5	5	5	5
CCM	ESSF	wc	4		02	FF	k		6		4	4	4	5
CCM	ESSF	wc	4		02	FF	k		7		4	3	4	5
CCM	ESSF	wc	4		02	FF	q		2		5	5	5	5
CCM	ESSF	wc	4		02	FF	q		3		5	5	5	5
CCM	ESSF	wc	4		02	FF	q		4		5	5	5	5
CCM	ESSF	wc	4		02	FF	q		5		5	5	5	5
CCM	ESSF	wc	4		02	FF	q		6		4	4	4	5
CCM	ESSF	wc	4		02	FF	q		7		4	3	4	5
CCM	ESSF	wc	4		02	FF	w		2		5	5	5	5
CCM	ESSF	wc	4		02	FF	w		3		5	5	5	5
CCM	ESSF	wc	4		02	FF	w		4		5	5	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ESSF	wc	4		02	FF	w		5		4	3	4	5
CCM	ESSF	wc	4		02	FF	w		6		3	2	3	4
CCM	ESSF	wc	4		02	FF	w		7		2	1	2	3
CCM	ESSF	wc	4		02	FF	z		2		5	5	5	5
CCM	ESSF	wc	4		02	FF	z		3		5	5	5	5
CCM	ESSF	wc	4		02	FF	z		4		5	5	5	5
CCM	ESSF	wc	4		02	FF	z		5		5	5	5	5
CCM	ESSF	wc	4		02	FF	z		6		4	4	4	5
CCM	ESSF	wc	4		02	FF	z		7		4	3	3	5
CCM	ESSF	wc	4		03	FW			2		5	5	5	4
CCM	ESSF	wc	4		03	FW			3		5	5	5	4
CCM	ESSF	wc	4		03	FW			4		5	5	5	5
CCM	ESSF	wc	4		03	FW			5		5	5	5	5
CCM	ESSF	wc	4		03	FW			6		4	2	4	5
CCM	ESSF	wc	4		03	FW			7		4	2	4	4
CCM	ESSF	wc	4		03	FW	k		2		5	5	5	4
CCM	ESSF	wc	4		03	FW	k		3		5	5	5	4
CCM	ESSF	wc	4		03	FW	k		4		5	5	5	5
CCM	ESSF	wc	4		03	FW	k		5		5	5	5	5
CCM	ESSF	wc	4		03	FW	k		6		4	4	4	5
CCM	ESSF	wc	4		03	FW	k		7		4	3	4	4
CCM	ESSF	wc	4		03	FW	q		2		5	5	5	5
CCM	ESSF	wc	4		03	FW	q		3		5	5	5	5
CCM	ESSF	wc	4		03	FW	q		4		5	5	5	5
CCM	ESSF	wc	4		03	FW	q		5		5	5	5	5
CCM	ESSF	wc	4		03	FW	q		6		4	4	4	5
CCM	ESSF	wc	4		03	FW	q		7		4	3	4	5
CCM	ESSF	wc	4		03	FW	w		2		5	5	5	4
CCM	ESSF	wc	4		03	FW	w		3		5	5	5	5
CCM	ESSF	wc	4		03	FW	w		4		5	5	5	5
CCM	ESSF	wc	4		03	FW	w		5		4	3	4	5
CCM	ESSF	wc	4		03	FW	w		6		3	2	3	4
CCM	ESSF	wc	4		03	FW	w		7		2	1	2	3
CCM	ESSF	wc	4		03	FW	z		2		5	5	5	4
CCM	ESSF	wc	4		03	FW	z		3		5	5	5	5
CCM	ESSF	wc	4		03	FW	z		4		5	5	5	5
CCM	ESSF	wc	4		03	FW	z		5		5	5	5	5
CCM	ESSF	wc	4		03	FW	z		6		4	4	4	5
CCM	ESSF	wc	4		03	FW	z		7		4	3	3	5
CCM	ESSF	wc	4		04	RF			2		5	5	5	4
CCM	ESSF	wc	4		04	RF			3		5	5	5	4
CCM	ESSF	wc	4		04	RF			4		5	5	5	5
CCM	ESSF	wc	4		04	RF			5		5	5	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ESSF	wc	4		04	RF			6		4	2	4	5
CCM	ESSF	wc	4		04	RF			7		4	2	4	4
CCM	ESSF	wc	4		04	RF	k		2		5	5	5	4
CCM	ESSF	wc	4		04	RF	k		3		5	5	5	4
CCM	ESSF	wc	4		04	RF	k		4		5	5	5	5
CCM	ESSF	wc	4		04	RF	k		5		5	5	5	5
CCM	ESSF	wc	4		04	RF	k		6		4	4	4	5
CCM	ESSF	wc	4		04	RF	k		7		4	3	4	4
CCM	ESSF	wc	4		04	RF	q		2		5	5	5	5
CCM	ESSF	wc	4		04	RF	q		3		5	5	5	5
CCM	ESSF	wc	4		04	RF	q		4		5	5	5	5
CCM	ESSF	wc	4		04	RF	q		5		5	5	5	5
CCM	ESSF	wc	4		04	RF	q		6		4	4	4	5
CCM	ESSF	wc	4		04	RF	q		7		4	3	4	5
CCM	ESSF	wc	4		04	RF	w		2		5	5	5	4
CCM	ESSF	wc	4		04	RF	w		3		5	5	5	5
CCM	ESSF	wc	4		04	RF	w		4		5	5	5	5
CCM	ESSF	wc	4		04	RF	w		5		4	3	4	5
CCM	ESSF	wc	4		04	RF	w		6		3	2	3	4
CCM	ESSF	wc	4		04	RF	w		7		2	1	2	3
CCM	ESSF	wc	4		05	FL			2		5	5	3	2
CCM	ESSF	wc	4		05	FL			3		5	5	3	2
CCM	ESSF	wc	4		05	FL			4		5	5	5	4
CCM	ESSF	wc	4		05	FL			5		5	5	5	4
CCM	ESSF	wc	4		05	FL			6		4	2	3	3
CCM	ESSF	wc	4		05	FL			7		4	2	2	2
CCM	ESSF	wc	4		05	FL	k		2		5	5	5	3
CCM	ESSF	wc	4		05	FL	k		3		5	5	5	3
CCM	ESSF	wc	4		05	FL	k		4		5	5	5	4
CCM	ESSF	wc	4		05	FL	k		5		5	5	5	5
CCM	ESSF	wc	4		05	FL	k		6		4	4	4	4
CCM	ESSF	wc	4		05	FL	k		7		4	3	4	3
CCM	ESSF	wc	4		05	FL	w		2		5	5	5	3
CCM	ESSF	wc	4		05	FL	w		3		5	5	5	3
CCM	ESSF	wc	4		05	FL	w		4		5	5	5	4
CCM	ESSF	wc	4		05	FL	w		5		4	3	4	4
CCM	ESSF	wc	4		05	FL	w		6		3	2	3	3
CCM	ESSF	wc	4		05	FL	w		7		2	1	2	3
CCM	ESSF	wc	4		06	FH			2		5	5	3	2
CCM	ESSF	wc	4		06	FH			3		5	5	3	2
CCM	ESSF	wc	4		06	FH			4		5	5	5	4
CCM	ESSF	wc	4		06	FH			5		5	5	5	4
CCM	ESSF	wc	4		06	FH			6		4	2	3	3



ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ESSF	wc	4		06	FH			7		4	2	2	2
CCM	ESSF	wc	4		07	SS			2		5	5	4	4
CCM	ESSF	wc	4		07	SS			3		5	5	4	4
CCM	ESSF	wc	4		07	SS			4		5	5	5	5
CCM	ESSF	wc	4		07	SS			5		5	5	5	5
CCM	ESSF	wc	4		07	SS			6		4	3	4	4
CCM	ESSF	wc	4		07	SS			7		4	2	4	4
CCM	ESSF	wc	4		08	WS			2		5	5	5	5
CCM	ESSF	wc	4		08	WS			3		5	5	5	5
CCM	ESSF	wc	4		77	AC			2		5	5	3	2
CCM	ESSF	wc	4		77	AC			3		5	5	3	2
CCM	ESSF	wc	4		77	AC	k		2		5	5	4	2
CCM	ESSF	wc	4		77	AC	k		3		5	5	4	2
CCM	ESSF	wc	4		77	AC	q		2		5	5	5	3
CCM	ESSF	wc	4		77	AC	q		3		5	5	5	3
CCM	ESSF	wc	4		77	AC	w		2		5	5	4	1
CCM	ESSF	wc	4		77	AC	w		3		5	5	4	1
CCM	ESSF	wc	4		77	AC	z		2		5	5	5	3
CCM	ESSF	wc	4		77	AC	z		3		5	5	5	3
CCM	ESSF	wc	4		99	RO					5	5	5	5
CCM	ESSF	wc	4		99	RO	k				5	5	5	5
CCM	ESSF	wc	4		99	RO	q				6	6	6	6
CCM	ESSF	wc	4		99	RO	w				5	5	5	5
CCM	ESSF	wc	4		99	RO	z				6	6	6	6
CCM	ESSF	wc	4		44	TA					5	5	5	5
CCM	ESSF	wc	4		44	TA	k				5	5	5	5
CCM	ESSF	wc	4		44	TA	q				5	5	5	6
CCM	ESSF	wc	4		44	TA	w				5	5	5	5
CCM	ESSF	wc	4		44	TA	z				5	5	5	6
CCM	ESSF	wcp			01	MH			2		5	4	5	4
CCM	ESSF	wcp			01	MH	k		2		5	4	5	4
CCM	ESSF	wcp			01	MH	q		2		5	5	5	5
CCM	ESSF	wcp			01	MH	w		2		5	4	5	4
CCM	ESSF	wcp			01	MH	z		2		5	5	5	5
CCM	ESSF	wcp			02	FH			2		5	1	2	2
CCM	ESSF	wcp			02	FH			3		5	1	2	2
CCM	ESSF	wcp			02	FH			4		5	1	2	2
CCM	ESSF	wcp			02	FH			5		5	1	2	2
CCM	ESSF	wcp			02	FH			6		5	1	2	2
CCM	ESSF	wcp			02	FH			7		4	1	2	1
CCM	ESSF	wcp			02	FH	k		2		5	1	2	3
CCM	ESSF	wcp			02	FH	k		3		5	1	2	3
CCM	ESSF	wcp			02	FH	k		4		5	1	2	3

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ESSF	wcp			02	FH	k		5		5	1	2	3
CCM	ESSF	wcp			02	FH	k		6		5	1	2	3
CCM	ESSF	wcp			02	FH	k		7		4	1	2	3
CCM	ESSF	wcp			02	FH	q		2		5	3	4	5
CCM	ESSF	wcp			02	FH	q		3		5	3	4	5
CCM	ESSF	wcp			02	FH	q		4		5	3	4	5
CCM	ESSF	wcp			02	FH	q		5		5	3	4	5
CCM	ESSF	wcp			02	FH	q		6		5	3	4	5
CCM	ESSF	wcp			02	FH	q		7		5	3	4	5
CCM	ESSF	wcp			02	FH	w		2		5	1	2	3
CCM	ESSF	wcp			02	FH	w		3		5	1	2	3
CCM	ESSF	wcp			02	FH	w		4		5	1	2	3
CCM	ESSF	wcp			02	FH	w		5		5	1	2	3
CCM	ESSF	wcp			02	FH	w		6		5	1	2	3
CCM	ESSF	wcp			02	FH	w		7		4	1	2	3
CCM	ESSF	wcp			02	FH	z		2		5	3	4	5
CCM	ESSF	wcp			02	FH	z		3		5	3	4	5
CCM	ESSF	wcp			02	FH	z		4		5	3	4	5
CCM	ESSF	wcp			02	FH	z		5		5	3	4	5
CCM	ESSF	wcp			02	FH	z		6		5	3	4	5
CCM	ESSF	wcp			02	FH	z		7		5	3	4	5
CCM	ESSF	wcp			03	JM			2		5	5	5	5
CCM	ESSF	wcp			03	JM			3		5	5	5	5
CCM	ESSF	wcp			03	JM	k		2		5	5	5	5
CCM	ESSF	wcp			03	JM	k		3		5	5	5	5
CCM	ESSF	wcp			03	JM	q		2		5	5	5	5
CCM	ESSF	wcp			03	JM	q		3		5	5	5	5
CCM	ESSF	wcp			03	JM	w		2		5	5	5	5
CCM	ESSF	wcp			03	JM	w		3		5	5	5	5
CCM	ESSF	wcp			03	JM	z		2		5	5	5	5
CCM	ESSF	wcp			03	JM	z		3		5	5	5	5
CCM	ESSF	wcp			04	SW			2		5	5	4	2
CCM	ESSF	wcp			04	SW	k		2		5	5	4	2
CCM	ESSF	wcp			04	SW	w		2		5	5	4	2
CCM	ESSF	wcp			77	AC			2		5	5	4	4
CCM	ESSF	wcp			77	AC			3		5	5	4	4
CCM	ESSF	wcp			77	AC	k		2		5	5	4	2
CCM	ESSF	wcp			77	AC	k		3		5	5	4	2
CCM	ESSF	wcp			77	AC	q		2		5	5	5	4
CCM	ESSF	wcp			77	AC	q		3		5	5	5	4
CCM	ESSF	wcp			77	AC	w		2		5	5	4	3
CCM	ESSF	wcp			77	AC	w		3		5	5	4	3
CCM	ESSF	wcp			77	AC	z		2		5	5	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ESSF	wcp			77	AC	z		3		5	5	5	5
CCM	ESSF	wcp			44	TA					5	5	5	5
CCM	ESSF	wcp			44	TA	k				5	5	5	5
CCM	ESSF	wcp			44	TA	q				5	5	5	5
CCM	ESSF	wcp			44	TA	w				5	5	5	5
CCM	ESSF	wcp			44	TA	z				5	5	5	5
CCM	ESSF	wcp			99	RO					5	5	5	5
CCM	ESSF	wcp			99	RO	k				5	5	5	5
CCM	ESSF	wcp			99	RO	q				6	6	6	6
CCM	ESSF	wcp			99	RO	w				5	5	5	5
CCM	ESSF	wcp			99	RO	z				6	6	6	6
CCM	ICH	mw	2		01	HF			2		4	5	4	2
CCM	ICH	mw	2		01	HF			3		4	5	4	2
CCM	ICH	mw	2		01	HF			4		4	5	4	4
CCM	ICH	mw	2		01	HF			5		4	5	4	4
CCM	ICH	mw	2		01	HF			6		1	4	1	1
CCM	ICH	mw	2		01	HF			7		1	4	1	1
CCM	ICH	mw	2		01	HF	k		2		4	5	4	2
CCM	ICH	mw	2		01	HF	k		3		4	5	4	2
CCM	ICH	mw	2		01	HF	k		4		4	5	4	4
CCM	ICH	mw	2		01	HF	k		5		4	5	4	4
CCM	ICH	mw	2		01	HF	k		6		1	4	1	1
CCM	ICH	mw	2		01	HF	k		7		1	4	1	1
CCM	ICH	mw	2		01	HF	w		2		4	5	4	2
CCM	ICH	mw	2		01	HF	w		3		4	5	4	2
CCM	ICH	mw	2		01	HF	w		4		4	5	4	4
CCM	ICH	mw	2		01	HF	w		5		4	5	4	4
CCM	ICH	mw	2		01	HF	w		6		1	4	1	1
CCM	ICH	mw	2		01	HF	w		7		1	4	1	1
CCM	ICH	mw	2		02	RC			2		5	5	5	5
CCM	ICH	mw	2		02	RC			3		5	5	5	5
CCM	ICH	mw	2		02	RC			4		5	5	5	5
CCM	ICH	mw	2		02	RC			5		5	5	5	5
CCM	ICH	mw	2		02	RC			6		4	4	5	5
CCM	ICH	mw	2		02	RC			7		4	4	5	5
CCM	ICH	mw	2		02	RC	k		2		5	5	5	5
CCM	ICH	mw	2		02	RC	k		3		5	5	5	5
CCM	ICH	mw	2		02	RC	k		4		5	5	5	5
CCM	ICH	mw	2		02	RC	k		5		5	5	5	5
CCM	ICH	mw	2		02	RC	k		6		4	4	5	5
CCM	ICH	mw	2		02	RC	k		7		4	4	5	5
CCM	ICH	mw	2		02	RC	q		2		5	5	5	5
CCM	ICH	mw	2		02	RC	q		3		5	5	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ICH	mw	2		02	RC	q		4		5	5	5	5
CCM	ICH	mw	2		02	RC	q		5		5	5	5	5
CCM	ICH	mw	2		02	RC	q		6		5	5	5	5
CCM	ICH	mw	2		02	RC	q		7		5	5	5	5
CCM	ICH	mw	2		02	RC	w		2		5	5	5	5
CCM	ICH	mw	2		02	RC	w		3		5	5	5	5
CCM	ICH	mw	2		02	RC	w		4		5	5	5	5
CCM	ICH	mw	2		02	RC	w		5		5	5	5	5
CCM	ICH	mw	2		02	RC	w		6		4	4	5	5
CCM	ICH	mw	2		02	RC	w		7		4	4	5	5
CCM	ICH	mw	2		02	RC	z		2		5	5	5	5
CCM	ICH	mw	2		02	RC	z		3		5	5	5	5
CCM	ICH	mw	2		02	RC	z		4		5	5	5	5
CCM	ICH	mw	2		02	RC	z		5		5	5	5	5
CCM	ICH	mw	2		02	RC	z		6		5	5	5	5
CCM	ICH	mw	2		02	RC	z		7		5	5	5	5
CCM	ICH	mw	2		03	DF			2		3	5	3	4
CCM	ICH	mw	2		03	DF			3		3	5	3	4
CCM	ICH	mw	2		03	DF			4		4	5	4	4
CCM	ICH	mw	2		03	DF			5		4	5	4	4
CCM	ICH	mw	2		03	DF			6		3	4	3	3
CCM	ICH	mw	2		03	DF			7		2	3	2	3
CCM	ICH	mw	2		03	DF	w		2		3	5	3	4
CCM	ICH	mw	2		03	DF	w		3		3	5	3	4
CCM	ICH	mw	2		03	DF	w		4		4	5	4	4
CCM	ICH	mw	2		03	DF	w		5		4	5	4	4
CCM	ICH	mw	2		03	DF	w		6		3	4	3	3
CCM	ICH	mw	2		03	DF	w		7		2	3	2	3
CCM	ICH	mw	2		03	DF	z		2		3	5	3	4
CCM	ICH	mw	2		03	DF	z		3		3	5	3	4
CCM	ICH	mw	2		03	DF	z		4		4	5	4	5
CCM	ICH	mw	2		03	DF	z		5		4	5	4	5
CCM	ICH	mw	2		03	DF	z		6		3	4	3	4
CCM	ICH	mw	2		03	DF	z		7		2	3	2	4
CCM	ICH	mw	2		04	RF			2		3	5	3	4
CCM	ICH	mw	2		04	RF			3		3	5	3	4
CCM	ICH	mw	2		04	RF			4		4	5	4	4
CCM	ICH	mw	2		04	RF			5		4	5	4	4
CCM	ICH	mw	2		04	RF			6		3	4	3	3
CCM	ICH	mw	2		04	RF			7		2	3	2	3
CCM	ICH	mw	2		04	RF	k		2		3	5	3	4
CCM	ICH	mw	2		04	RF	k		3		3	5	3	4
CCM	ICH	mw	2		04	RF	k		4		4	5	4	4

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ICH	mw	2		04	RF	k		5		4	5	4	4
CCM	ICH	mw	2		04	RF	k		6		3	4	3	3
CCM	ICH	mw	2		04	RF	k		7		2	3	2	3
CCM	ICH	mw	2		04	RF	q		2		3	5	3	4
CCM	ICH	mw	2		04	RF	q		3		3	5	3	4
CCM	ICH	mw	2		04	RF	q		4		4	5	4	5
CCM	ICH	mw	2		04	RF	q		5		4	5	4	5
CCM	ICH	mw	2		04	RF	q		6		3	4	3	4
CCM	ICH	mw	2		04	RF	q		7		2	3	2	4
CCM	ICH	mw	2		05	HO			2		4	5	2	1
CCM	ICH	mw	2		05	HO			3		4	5	3	2
CCM	ICH	mw	2		05	HO			4		5	5	4	3
CCM	ICH	mw	2		05	HO			5		4	4	4	3
CCM	ICH	mw	2		05	HO			6		1	3	1	1
CCM	ICH	mw	2		05	HO			7		1	2	1	1
CCM	ICH	mw	2		05	HO	k		2		4	5	2	1
CCM	ICH	mw	2		05	HO	k		3		4	5	3	2
CCM	ICH	mw	2		05	HO	k		4		5	5	4	3
CCM	ICH	mw	2		05	HO	k		5		4	4	4	3
CCM	ICH	mw	2		05	HO	k		6		1	3	1	1
CCM	ICH	mw	2		05	HO	k		7		1	2	1	1
CCM	ICH	mw	2		05	HO	q		2		3	5	2	2
CCM	ICH	mw	2		05	HO	q		3		3	5	2	3
CCM	ICH	mw	2		05	HO	q		4		4	5	4	5
CCM	ICH	mw	2		05	HO	q		5		4	5	4	5
CCM	ICH	mw	2		05	HO	q		6		2	4	4	3
CCM	ICH	mw	2		05	HO	q		7		2	4	3	2
CCM	ICH	mw	2		05	HO	w		2		4	5	2	2
CCM	ICH	mw	2		05	HO	w		3		4	5	3	2
CCM	ICH	mw	2		05	HO	w		4		5	5	4	3
CCM	ICH	mw	2		05	HO	w		5		4	4	4	3
CCM	ICH	mw	2		05	HO	w		6		1	3	1	2
CCM	ICH	mw	2		05	HO	w		7		1	2	1	2
CCM	ICH	mw	2		05	HO	z		2		3	5	2	3
CCM	ICH	mw	2		05	HO	z		3		3	5	2	4
CCM	ICH	mw	2		05	HO	z		4		4	5	4	5
CCM	ICH	mw	2		05	HO	z		5		4	5	4	5
CCM	ICH	mw	2		05	HO	z		6		3	4	4	3
CCM	ICH	mw	2		05	HO	z		7		3	4	3	3
CCM	ICH	mw	2		06	RD			2		4	5	2	1
CCM	ICH	mw	2		06	RD			3		4	5	3	2
CCM	ICH	mw	2		06	RD			4		5	5	4	3
CCM	ICH	mw	2		06	RD			5		4	4	4	3

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ICH	mw	2		06	RD			6		1	3	1	1
CCM	ICH	mw	2		06	RD			7		1	2	1	1
CCM	ICH	mw	2		06	RD	k		2		4	5	2	1
CCM	ICH	mw	2		06	RD	k		3		4	5	3	2
CCM	ICH	mw	2		06	RD	k		4		5	5	4	3
CCM	ICH	mw	2		06	RD	k		5		4	4	4	3
CCM	ICH	mw	2		06	RD	k		6		1	3	1	1
CCM	ICH	mw	2		06	RD	k		7		1	2	1	1
CCM	ICH	mw	2		06	RD	w		2		4	5	2	2
CCM	ICH	mw	2		06	RD	w		3		4	5	3	2
CCM	ICH	mw	2		06	RD	w		4		5	5	4	3
CCM	ICH	mw	2		06	RD	w		5		4	4	4	3
CCM	ICH	mw	2		06	RD	w		6		1	3	1	2
CCM	ICH	mw	2		06	RD	w		7		1	2	1	2
CCM	ICH	mw	2		07	RH			2		4	5	4	4
CCM	ICH	mw	2		07	RH			3		4	5	4	4
CCM	ICH	mw	2		07	RH			4		5	5	4	5
CCM	ICH	mw	2		07	RH			5		5	5	4	5
CCM	ICH	mw	2		07	RH			6		3	4	3	4
CCM	ICH	mw	2		07	RH			7		3	4	3	4
CCM	ICH	mw	2		08	RC			2		4	5	2	1
CCM	ICH	mw	2		08	RC			3		4	5	3	3
CCM	ICH	mw	2		08	RC			4		5	5	4	4
CCM	ICH	mw	2		08	RC			5		5	5	4	4
CCM	ICH	mw	2		08	RC			6		3	4	3	2
CCM	ICH	mw	2		08	RC			7		3	4	3	2
CCM	ICH	mw	2		09	BS			2		5	5	4	4
CCM	ICH	mw	2		09	BS			3		5	5	4	4
CCM	ICH	mw	2		09	BS			4		5	5	5	5
CCM	ICH	mw	2		09	BS			5		5	5	5	5
CCM	ICH	mw	2		09	BS			6		4	5	4	4
CCM	ICH	mw	2		09	BS			7		4	5	4	4
CCM	ICH	mw	2		77	AC			2		5	5	1	1
CCM	ICH	mw	2		77	AC			3		5	5	2	1
CCM	ICH	mw	2		77	AC	k		2		5	5	1	1
CCM	ICH	mw	2		77	AC	k		3		5	5	1	1
CCM	ICH	mw	2		77	AC	q		2		5	5	2	2
CCM	ICH	mw	2		77	AC	q		3		5	5	2	2
CCM	ICH	mw	2		77	AC	w		2		5	5	1	1
CCM	ICH	mw	2		77	AC	w		3		5	5	1	1
CCM	ICH	mw	2		77	AC	z		2		5	5	2	2
CCM	ICH	mw	2		77	AC	z		3		5	5	2	2
CCM	ICH	mw	2		44	TA					5	5	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ICH	mw	2		44	TA	k				5	5	5	5
CCM	ICH	mw	2		44	TA	q				5	5	5	5
CCM	ICH	mw	2		44	TA	w				5	5	5	5
CCM	ICH	mw	2		44	TA	z				5	5	5	5
CCM	ICH	mw	2		99	RO					5	5	5	5
CCM	ICH	mw	2		99	RO	k				5	5	5	5
CCM	ICH	mw	2		99	RO	q				5	5	5	5
CCM	ICH	mw	2		99	RO	w				5	5	5	5
CCM	ICH	mw	2		99	RO	z				5	5	5	5
CCM	ICH	mw	3		01	HF			2		4	5	4	2
CCM	ICH	mw	3		01	HF			3		4	5	4	2
CCM	ICH	mw	3		01	HF			4		4	5	4	4
CCM	ICH	mw	3		01	HF			5		4	5	4	4
CCM	ICH	mw	3		01	HF			6		1	4	1	1
CCM	ICH	mw	3		01	HF			7		1	4	1	1
CCM	ICH	mw	3		01	HF	k		2		4	5	4	2
CCM	ICH	mw	3		01	HF	k		3		4	5	4	2
CCM	ICH	mw	3		01	HF	k		4		4	5	4	4
CCM	ICH	mw	3		01	HF	k		5		4	5	4	4
CCM	ICH	mw	3		01	HF	k		6		1	4	1	1
CCM	ICH	mw	3		01	HF	k		7		1	4	1	1
CCM	ICH	mw	3		01	HF	w		2		4	5	4	2
CCM	ICH	mw	3		01	HF	w		3		4	5	4	2
CCM	ICH	mw	3		01	HF	w		4		4	5	4	4
CCM	ICH	mw	3		01	HF	w		5		4	5	4	4
CCM	ICH	mw	3		01	HF	w		6		1	4	1	1
CCM	ICH	mw	3		01	HF	w		7		1	4	1	1
CCM	ICH	mw	3		02	DJ			2		5	5	5	5
CCM	ICH	mw	3		02	DJ			3		5	5	5	5
CCM	ICH	mw	3		02	DJ			4		5	5	5	5
CCM	ICH	mw	3		02	DJ			5		5	5	5	5
CCM	ICH	mw	3		02	DJ			6		4	4	5	5
CCM	ICH	mw	3		02	DJ			7		4	4	5	5
CCM	ICH	mw	3		02	DJ	k		2		5	5	5	5
CCM	ICH	mw	3		02	DJ	k		3		5	5	5	5
CCM	ICH	mw	3		02	DJ	k		4		5	5	5	5
CCM	ICH	mw	3		02	DJ	k		5		5	5	5	5
CCM	ICH	mw	3		02	DJ	k		6		4	4	5	5
CCM	ICH	mw	3		02	DJ	k		7		4	4	5	5
CCM	ICH	mw	3		02	DJ	q		2		5	5	5	5
CCM	ICH	mw	3		02	DJ	q		3		5	5	5	5
CCM	ICH	mw	3		02	DJ	q		4		5	5	5	5
CCM	ICH	mw	3		02	DJ	q		5		5	5	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ICH	mw	3		02	DJ	q		6		5	5	5	5
CCM	ICH	mw	3		02	DJ	q		7		5	5	5	5
CCM	ICH	mw	3		02	DJ	w		2		5	5	5	5
CCM	ICH	mw	3		02	DJ	w		3		5	5	5	5
CCM	ICH	mw	3		02	DJ	w		4		5	5	5	5
CCM	ICH	mw	3		02	DJ	w		5		5	5	5	5
CCM	ICH	mw	3		02	DJ	w		6		4	4	5	5
CCM	ICH	mw	3		02	DJ	w		7		4	4	5	5
CCM	ICH	mw	3		02	DJ	z		2		5	5	5	5
CCM	ICH	mw	3		02	DJ	z		3		5	5	5	5
CCM	ICH	mw	3		02	DJ	z		4		5	5	5	5
CCM	ICH	mw	3		02	DJ	z		5		5	5	5	5
CCM	ICH	mw	3		02	DJ	z		6		5	5	5	5
CCM	ICH	mw	3		02	DJ	z		7		5	5	5	5
CCM	ICH	mw	3		03	DP			2		3	5	3	4
CCM	ICH	mw	3		03	DP			3		3	5	3	4
CCM	ICH	mw	3		03	DP			4		4	5	4	4
CCM	ICH	mw	3		03	DP			5		4	5	4	4
CCM	ICH	mw	3		03	DP			6		3	4	3	3
CCM	ICH	mw	3		03	DP			7		2	3	2	3
CCM	ICH	mw	3		03	DP	w		2		3	5	3	4
CCM	ICH	mw	3		03	DP	w		3		3	5	3	4
CCM	ICH	mw	3		03	DP	w		4		4	5	4	4
CCM	ICH	mw	3		03	DP	w		5		4	5	4	4
CCM	ICH	mw	3		03	DP	w		6		3	4	3	3
CCM	ICH	mw	3		03	DP	w		7		2	3	2	3
CCM	ICH	mw	3		03	DP	z		2		3	5	3	4
CCM	ICH	mw	3		03	DP	z		3		3	5	3	4
CCM	ICH	mw	3		03	DP	z		4		4	5	4	5
CCM	ICH	mw	3		03	DP	z		5		4	5	4	5
CCM	ICH	mw	3		03	DP	z		6		3	4	3	4
CCM	ICH	mw	3		03	DP	z		7		2	3	2	4
CCM	ICH	mw	3		04	RS			2		3	5	3	4
CCM	ICH	mw	3		04	RS			3		3	5	3	4
CCM	ICH	mw	3		04	RS			4		4	5	4	4
CCM	ICH	mw	3		04	RS			5		4	5	4	4
CCM	ICH	mw	3		04	RS			6		3	4	3	3
CCM	ICH	mw	3		04	RS			7		2	3	2	3
CCM	ICH	mw	3		04	RS	k		2		3	5	3	4
CCM	ICH	mw	3		04	RS	k		3		3	5	3	4
CCM	ICH	mw	3		04	RS	k		4		4	5	4	4
CCM	ICH	mw	3		04	RS	k		5		4	5	4	4
CCM	ICH	mw	3		04	RS	k		6		3	4	3	3



ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ICH	mw	3		04	RS	k		7		2	3	2	3
CCM	ICH	mw	3		04	RS	q		2		3	5	3	4
CCM	ICH	mw	3		04	RS	q		3		3	5	3	4
CCM	ICH	mw	3		04	RS	q		4		4	5	4	5
CCM	ICH	mw	3		04	RS	q		5		4	5	4	5
CCM	ICH	mw	3		04	RS	q		6		3	4	3	4
CCM	ICH	mw	3		04	RS	q		7		2	3	2	4
CCM	ICH	mw	3		05	RF			2		3	5	3	4
CCM	ICH	mw	3		05	RF			3		3	5	3	4
CCM	ICH	mw	3		05	RF			4		4	5	4	4
CCM	ICH	mw	3		05	RF			5		4	5	4	4
CCM	ICH	mw	3		05	RF			6		3	4	3	3
CCM	ICH	mw	3		05	RF			7		2	3	2	3
CCM	ICH	mw	3		05	RF	k		2		3	5	3	4
CCM	ICH	mw	3		05	RF	k		3		3	5	3	4
CCM	ICH	mw	3		05	RF	k		4		4	5	4	4
CCM	ICH	mw	3		05	RF	k		5		4	5	4	4
CCM	ICH	mw	3		05	RF	k		6		3	4	3	3
CCM	ICH	mw	3		05	RF	k		7		2	3	2	3
CCM	ICH	mw	3		05	RF	q		2		3	5	3	4
CCM	ICH	mw	3		05	RF	q		3		3	5	3	4
CCM	ICH	mw	3		05	RF	q		4		4	5	4	5
CCM	ICH	mw	3		05	RF	q		5		4	5	4	5
CCM	ICH	mw	3		05	RF	q		6		3	4	3	4
CCM	ICH	mw	3		05	RF	q		7		2	3	2	4
CCM	ICH	mw	3		07	RD			2		4	5	2	1
CCM	ICH	mw	3		07	RD			3		4	5	3	2
CCM	ICH	mw	3		07	RD			4		5	5	4	3
CCM	ICH	mw	3		07	RD			5		4	4	4	3
CCM	ICH	mw	3		07	RD			6		1	3	1	1
CCM	ICH	mw	3		07	RD			7		1	2	1	1
CCM	ICH	mw	3		07	RD	k		2		4	5	2	1
CCM	ICH	mw	3		07	RD	k		3		4	5	3	2
CCM	ICH	mw	3		07	RD	k		4		5	5	4	3
CCM	ICH	mw	3		07	RD	k		5		4	4	4	3
CCM	ICH	mw	3		07	RD	k		6		1	3	1	1
CCM	ICH	mw	3		07	RD	k		7		1	2	1	1
CCM	ICH	mw	3		07	RD	q		2		4	5	2	1
CCM	ICH	mw	3		07	RD	q		3		4	5	3	2
CCM	ICH	mw	3		07	RD	q		4		5	5	4	3
CCM	ICH	mw	3		07	RD	q		5		4	4	4	3
CCM	ICH	mw	3		07	RD	q		6		2	3	2	2
CCM	ICH	mw	3		07	RD	q		7		2	2	2	2

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ICH	mw	3		07	RD	w		2		4	5	2	2
CCM	ICH	mw	3		07	RD	w		3		4	5	3	2
CCM	ICH	mw	3		07	RD	w		4		5	5	4	3
CCM	ICH	mw	3		07	RD	w		5		4	4	4	3
CCM	ICH	mw	3		07	RD	w		6		1	3	1	2
CCM	ICH	mw	3		07	RD	w		7		1	2	1	2
CCM	ICH	mw	3		07	RD	z		2		4	5	2	2
CCM	ICH	mw	3		07	RD	z		3		4	5	3	2
CCM	ICH	mw	3		07	RD	z		4		5	5	4	3
CCM	ICH	mw	3		07	RD	z		5		4	4	4	3
CCM	ICH	mw	3		07	RD	z		6		2	3	2	2
CCM	ICH	mw	3		07	RD	z		7		2	2	2	2
CCM	ICH	mw	3		08	RC			2		4	5	2	1
CCM	ICH	mw	3		08	RC			3		4	5	3	3
CCM	ICH	mw	3		08	RC			4		5	5	4	4
CCM	ICH	mw	3		08	RC			5		5	5	4	4
CCM	ICH	mw	3		08	RC			6		3	4	3	2
CCM	ICH	mw	3		08	RC			7		3	4	3	2
CCM	ICH	mw	3		09	SE			2		5	5	4	4
CCM	ICH	mw	3		09	SE			3		5	5	4	4
CCM	ICH	mw	3		09	SE			4		5	5	5	5
CCM	ICH	mw	3		09	SE			5		5	5	5	5
CCM	ICH	mw	3		09	SE			6		4	5	4	4
CCM	ICH	mw	3		09	SE			7		4	5	4	4
CCM	ICH	mw	3		77	AC			2		5	5	1	1
CCM	ICH	mw	3		77	AC			3		5	5	2	1
CCM	ICH	mw	3		77	AC	k		2		5	5	1	1
CCM	ICH	mw	3		77	AC	k		3		5	5	1	1
CCM	ICH	mw	3		77	AC	q		2		5	5	2	2
CCM	ICH	mw	3		77	AC	q		3		5	5	2	2
CCM	ICH	mw	3		77	AC	w		2		5	5	1	1
CCM	ICH	mw	3		77	AC	w		3		5	5	1	1
CCM	ICH	mw	3		77	AC	z		2		5	5	2	2
CCM	ICH	mw	3		77	AC	z		3		5	5	2	2
CCM	ICH	mw	3		44	TA					5	5	5	5
CCM	ICH	mw	3		44	TA	k				5	5	5	5
CCM	ICH	mw	3		44	TA	q				5	5	5	5
CCM	ICH	mw	3		44	TA	w				5	5	5	5
CCM	ICH	mw	3		44	TA	z				5	5	5	5
CCM	ICH	mw	3		99	RO					5	5	5	5
CCM	ICH	mw	3		99	RO	k				5	5	5	5
CCM	ICH	mw	3		99	RO	q				6	6	6	6
CCM	ICH	mw	3		99	RO	w				5	5	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ICH	mw	3		99	RO	z				6	6	6	6
CCM	ICH	vk	1		01	RD			2		5	5	2	1
CCM	ICH	vk	1		01	RD			3		5	5	2	1
CCM	ICH	vk	1		01	RD			4		5	5	3	3
CCM	ICH	vk	1		01	RD			5		4	5	3	3
CCM	ICH	vk	1		01	RD			6		1	4	1	1
CCM	ICH	vk	1		01	RD			7		1	4	1	1
CCM	ICH	vk	1		01	RD	k		2		5	5	2	1
CCM	ICH	vk	1		01	RD	k		3		5	5	2	1
CCM	ICH	vk	1		01	RD	k		4		5	5	3	3
CCM	ICH	vk	1		01	RD	k		5		4	5	3	3
CCM	ICH	vk	1		01	RD	k		6		1	4	1	1
CCM	ICH	vk	1		01	RD	k		7		1	4	1	1
CCM	ICH	vk	1		01	RD	w		2		5	5	2	1
CCM	ICH	vk	1		01	RD	w		3		5	5	2	1
CCM	ICH	vk	1		01	RD	w		4		5	5	3	3
CCM	ICH	vk	1		01	RD	w		5		4	5	3	3
CCM	ICH	vk	1		01	RD	w		6		1	4	1	1
CCM	ICH	vk	1		01	RD	w		7		1	4	1	1
CCM	ICH	vk	1		03	HF			2		5	5	4	4
CCM	ICH	vk	1		03	HF			3		5	5	4	4
CCM	ICH	vk	1		03	HF			4		5	5	5	5
CCM	ICH	vk	1		03	HF			5		5	5	5	5
CCM	ICH	vk	1		03	HF			6		2	4	3	3
CCM	ICH	vk	1		03	HF			7		1	3	2	2
CCM	ICH	vk	1		03	HF	k		2		5	5	4	4
CCM	ICH	vk	1		03	HF	k		3		5	5	4	4
CCM	ICH	vk	1		03	HF	k		4		5	5	5	5
CCM	ICH	vk	1		03	HF	k		5		5	5	5	5
CCM	ICH	vk	1		03	HF	k		6		2	4	3	3
CCM	ICH	vk	1		03	HF	k		7		1	3	2	2
CCM	ICH	vk	1		03	HF	q		2		5	5	5	5
CCM	ICH	vk	1		03	HF	q		3		5	5	5	5
CCM	ICH	vk	1		03	HF	q		4		5	5	5	5
CCM	ICH	vk	1		03	HF	q		5		5	5	5	5
CCM	ICH	vk	1		03	HF	q		6		3	4	3	4
CCM	ICH	vk	1		03	HF	q		7		2	4	2	3
CCM	ICH	vk	1		03	HF	w		2		5	5	4	4
CCM	ICH	vk	1		03	HF	w		3		5	5	4	4
CCM	ICH	vk	1		03	HF	w		4		5	5	5	5
CCM	ICH	vk	1		03	HF	w		5		5	5	5	5
CCM	ICH	vk	1		03	HF	w		6		2	4	3	3
CCM	ICH	vk	1		03	HF	w		7		1	3	2	2

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ICH	vk	1		03	HF	z		2		5	5	5	5
CCM	ICH	vk	1		03	HF	z		3		5	5	5	5
CCM	ICH	vk	1		03	HF	z		4		5	5	5	5
CCM	ICH	vk	1		03	HF	z		5		5	5	5	5
CCM	ICH	vk	1		03	HF	z		6		3	4	3	4
CCM	ICH	vk	1		03	HF	z		7		2	4	2	3
CCM	ICH	vk	1		04	HS			2		5	5	2	2
CCM	ICH	vk	1		04	HS			3		5	5	2	2
CCM	ICH	vk	1		04	HS			4		5	5	3	4
CCM	ICH	vk	1		04	HS			5		4	5	3	4
CCM	ICH	vk	1		04	HS			6		2	4	1	2
CCM	ICH	vk	1		04	HS			7		2	4	1	2
CCM	ICH	vk	1		04	HS	k		2		5	5	2	2
CCM	ICH	vk	1		04	HS	k		3		5	5	2	2
CCM	ICH	vk	1		04	HS	k		4		5	5	3	3
CCM	ICH	vk	1		04	HS	k		5		4	5	3	3
CCM	ICH	vk	1		04	HS	k		6		2	4	1	2
CCM	ICH	vk	1		04	HS	k		7		2	4	1	2
CCM	ICH	vk	1		04	HS	w		2		5	5	2	2
CCM	ICH	vk	1		04	HS	w		3		5	5	2	2
CCM	ICH	vk	1		04	HS	w		4		5	5	3	3
CCM	ICH	vk	1		04	HS	w		5		4	5	3	3
CCM	ICH	vk	1		04	HS	w		6		2	4	1	2
CCM	ICH	vk	1		04	HS	w		7		2	4	1	2
CCM	ICH	vk	1		05	RH			2		4	5	1	1
CCM	ICH	vk	1		05	RH			3		4	5	1	1
CCM	ICH	vk	1		05	RH			4		5	5	4	4
CCM	ICH	vk	1		05	RH			5		4	5	4	4
CCM	ICH	vk	1		05	RH			6		2	4	1	1
CCM	ICH	vk	1		05	RH			7		2	4	1	1
CCM	ICH	vk	1		06	RC			2		5	5	4	3
CCM	ICH	vk	1		06	RC			3		5	5	4	3
CCM	ICH	vk	1		06	RC			4		5	5	5	5
CCM	ICH	vk	1		06	RC			5		5	5	5	5
CCM	ICH	vk	1		06	RC			6		3	4	2	2
CCM	ICH	vk	1		06	RC			7		2	4	2	2
CCM	ICH	vk	1		77	AC			2		5	5	1	1
CCM	ICH	vk	1		77	AC			3		5	5	1	1
CCM	ICH	vk	1		77	AC	k		2		5	5	1	1
CCM	ICH	vk	1		77	AC	k		3		5	5	1	1
CCM	ICH	vk	1		77	AC	q		2		5	5	2	2
CCM	ICH	vk	1		77	AC	q		3		5	5	2	2
CCM	ICH	vk	1		77	AC	w		2		5	5	1	1

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ICH	vk	1		77	AC	w		3		5	5	1	1
CCM	ICH	vk	1		77	AC	z		2		5	5	2	2
CCM	ICH	vk	1		77	AC	z		3		5	5	2	2
CCM	ICH	vk	1		44	TA					5	5	5	5
CCM	ICH	vk	1		44	TA	k				5	5	5	5
CCM	ICH	vk	1		44	TA	q				5	5	5	5
CCM	ICH	vk	1		44	TA	w				5	5	5	5
CCM	ICH	vk	1		44	TA	z				5	5	5	5
CCM	ICH	vk	1		99	RO					5	5	5	5
CCM	ICH	vk	1		99	RO	k				5	5	5	5
CCM	ICH	vk	1		99	RO	q				6	6	6	6
CCM	ICH	vk	1		99	RO	w				5	5	5	5
CCM	ICH	vk	1		99	RO	z				6	6	6	6
CCM	ICH	wk	1		01	HO			2		5	5	2	1
CCM	ICH	wk	1		01	HO			3		5	5	2	1
CCM	ICH	wk	1		01	HO			4		5	5	3	3
CCM	ICH	wk	1		01	HO			5		4	5	3	3
CCM	ICH	wk	1		01	HO			6		1	4	2	1
CCM	ICH	wk	1		01	HO			7		1	4	2	1
CCM	ICH	wk	1		01	HO	k		2		5	5	2	1
CCM	ICH	wk	1		01	HO	k		3		5	5	2	1
CCM	ICH	wk	1		01	HO	k		4		5	5	3	3
CCM	ICH	wk	1		01	HO	k		5		4	5	3	3
CCM	ICH	wk	1		01	HO	k		6		1	4	2	1
CCM	ICH	wk	1		01	HO	k		7		1	4	2	1
CCM	ICH	wk	1		01	HO	q		2		5	5	3	2
CCM	ICH	wk	1		01	HO	q		3		5	5	3	2
CCM	ICH	wk	1		01	HO	q		4		5	5	4	4
CCM	ICH	wk	1		01	HO	q		5		4	5	4	4
CCM	ICH	wk	1		01	HO	q		6		2	4	3	2
CCM	ICH	wk	1		01	HO	q		7		2	4	3	2
CCM	ICH	wk	1		01	HO	w		2		5	5	2	2
CCM	ICH	wk	1		01	HO	w		3		5	5	2	2
CCM	ICH	wk	1		01	HO	w		4		5	5	3	4
CCM	ICH	wk	1		01	HO	w		5		4	5	3	4
CCM	ICH	wk	1		01	HO	w		6		1	4	2	2
CCM	ICH	wk	1		01	HO	w		7		1	4	2	2
CCM	ICH	wk	1		01	HO	z		2		5	5	3	2
CCM	ICH	wk	1		01	HO	z		3		5	5	3	2
CCM	ICH	wk	1		01	HO	z		4		5	5	4	4
CCM	ICH	wk	1		01	HO	z		5		4	5	4	4
CCM	ICH	wk	1		01	HO	z		6		2	4	3	2
CCM	ICH	wk	1		01	HO	z		7		2	4	3	2

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ICH	wk	1		02	RL			2		5	5	5	5
CCM	ICH	wk	1		02	RL			3		5	5	5	5
CCM	ICH	wk	1		02	RL			4		5	5	5	5
CCM	ICH	wk	1		02	RL			5		5	5	5	5
CCM	ICH	wk	1		02	RL			6		5	5	5	5
CCM	ICH	wk	1		02	RL			7		5	5	5	5
CCM	ICH	wk	1		02	RL	k		2		5	5	5	5
CCM	ICH	wk	1		02	RL	k		3		5	5	5	5
CCM	ICH	wk	1		02	RL	k		4		5	5	5	5
CCM	ICH	wk	1		02	RL	k		5		5	5	5	5
CCM	ICH	wk	1		02	RL	k		6		5	5	5	5
CCM	ICH	wk	1		02	RL	k		7		5	5	5	5
CCM	ICH	wk	1		02	RL	q		2		6	6	6	6
CCM	ICH	wk	1		02	RL	q		3		6	6	6	6
CCM	ICH	wk	1		02	RL	q		4		6	6	6	6
CCM	ICH	wk	1		02	RL	q		5		6	6	6	6
CCM	ICH	wk	1		02	RL	q		6		6	6	6	6
CCM	ICH	wk	1		02	RL	q		7		6	6	6	6
CCM	ICH	wk	1		02	RL	w		2		5	5	5	5
CCM	ICH	wk	1		02	RL	w		3		5	5	5	5
CCM	ICH	wk	1		02	RL	w		4		5	5	5	5
CCM	ICH	wk	1		02	RL	w		5		5	5	5	5
CCM	ICH	wk	1		02	RL	w		6		5	5	5	5
CCM	ICH	wk	1		02	RL	w		7		5	5	5	5
CCM	ICH	wk	1		02	RL	z		2		6	6	6	6
CCM	ICH	wk	1		02	RL	z		3		6	6	6	6
CCM	ICH	wk	1		02	RL	z		4		6	6	6	6
CCM	ICH	wk	1		02	RL	z		5		6	6	6	6
CCM	ICH	wk	1		02	RL	z		6		6	6	6	6
CCM	ICH	wk	1		02	RL	z		7		6	6	6	6
CCM	ICH	wk	1		04	HF			2		5	5	5	3
CCM	ICH	wk	1		04	HF			3		5	5	5	3
CCM	ICH	wk	1		04	HF			4		5	5	5	4
CCM	ICH	wk	1		04	HF			5		5	5	5	4
CCM	ICH	wk	1		04	HF			6		3	4	3	3
CCM	ICH	wk	1		04	HF			7		3	4	3	3
CCM	ICH	wk	1		04	HF	k		2		5	5	5	3
CCM	ICH	wk	1		04	HF	k		3		5	5	5	3
CCM	ICH	wk	1		04	HF	k		4		5	5	5	4
CCM	ICH	wk	1		04	HF	k		5		5	5	5	4
CCM	ICH	wk	1		04	HF	k		6		3	4	3	3
CCM	ICH	wk	1		04	HF	k		7		3	4	3	3
CCM	ICH	wk	1		04	HF	q		2		5	5	5	4

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ICH	wk	1		04	HF	q		3		5	5	5	4
CCM	ICH	wk	1		04	HF	q		4		5	5	5	4
CCM	ICH	wk	1		04	HF	q		5		5	5	5	4
CCM	ICH	wk	1		04	HF	q		6		4	4	4	4
CCM	ICH	wk	1		04	HF	q		7		4	4	4	4
CCM	ICH	wk	1		04	HF	w		2		5	5	5	4
CCM	ICH	wk	1		04	HF	w		3		5	5	5	4
CCM	ICH	wk	1		04	HF	w		4		5	5	5	4
CCM	ICH	wk	1		04	HF	w		5		5	5	5	4
CCM	ICH	wk	1		04	HF	w		6		3	4	3	4
CCM	ICH	wk	1		04	HF	w		7		3	4	3	4
CCM	ICH	wk	1		04	HF	z		2		5	5	5	4
CCM	ICH	wk	1		04	HF	z		3		5	5	5	4
CCM	ICH	wk	1		04	HF	z		4		5	5	5	5
CCM	ICH	wk	1		04	HF	z		5		5	5	5	5
CCM	ICH	wk	1		04	HF	z		6		4	4	4	4
CCM	ICH	wk	1		04	HF	z		7		4	4	4	4
CCM	ICH	wk	1		05	RD			2		5	5	1	1
CCM	ICH	wk	1		05	RD			3		5	5	1	1
CCM	ICH	wk	1		05	RD			4		5	5	4	4
CCM	ICH	wk	1		05	RD			5		5	5	3	3
CCM	ICH	wk	1		05	RD			6		3	4	1	2
CCM	ICH	wk	1		05	RD			7		2	4	1	2
CCM	ICH	wk	1		05	RD	k		2		5	5	1	1
CCM	ICH	wk	1		05	RD	k		3		5	5	1	1
CCM	ICH	wk	1		05	RD	k		4		5	5	4	4
CCM	ICH	wk	1		05	RD	k		5		5	5	3	3
CCM	ICH	wk	1		05	RD	k		6		3	4	1	1
CCM	ICH	wk	1		05	RD	k		7		2	4	1	1
CCM	ICH	wk	1		05	RD	w		2		5	5	1	1
CCM	ICH	wk	1		05	RD	w		3		5	5	1	1
CCM	ICH	wk	1		05	RD	w		4		5	5	4	4
CCM	ICH	wk	1		05	RD	w		5		5	5	3	3
CCM	ICH	wk	1		05	RD	w		6		3	4	1	2
CCM	ICH	wk	1		05	RD	w		7		2	4	1	2
CCM	ICH	wk	1		06	RH			2		5	5	1	1
CCM	ICH	wk	1		06	RH			3		5	5	1	1
CCM	ICH	wk	1		06	RH			4		5	5	4	4
CCM	ICH	wk	1		06	RH			5		5	5	3	3
CCM	ICH	wk	1		06	RH			6		3	4	1	2
CCM	ICH	wk	1		06	RH			7		2	4	1	1
CCM	ICH	wk	1		07	CD			2		5	5	4	4
CCM	ICH	wk	1		07	CD			3		5	5	4	4

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ICH	wk	1		07	CD			4		5	5	5	5
CCM	ICH	wk	1		07	CD			5		5	5	5	5
CCM	ICH	wk	1		07	CD			6		4	5	4	4
CCM	ICH	wk	1		07	CD			7		4	5	4	4
CCM	ICH	wk	1		08	RC			2		5	5	2	2
CCM	ICH	wk	1		08	RC			3		5	5	2	2
CCM	ICH	wk	1		08	RC			4		5	5	4	4
CCM	ICH	wk	1		08	RC			5		5	5	3	3
CCM	ICH	wk	1		08	RC			6		3	4	2	2
CCM	ICH	wk	1		08	RC			7		2	4	2	2
CCM	ICH	wk	1		09	SS			2		5	5	4	4
CCM	ICH	wk	1		77	AC			2		5	5	1	2
CCM	ICH	wk	1		77	AC			3		5	5	1	2
CCM	ICH	wk	1		77	AC	k		2		5	5	1	2
CCM	ICH	wk	1		77	AC	k		3		5	5	1	2
CCM	ICH	wk	1		77	AC	q		2		5	5	2	3
CCM	ICH	wk	1		77	AC	q		3		5	5	2	3
CCM	ICH	wk	1		77	AC	w		2		5	5	1	2
CCM	ICH	wk	1		77	AC	w		3		5	5	1	2
CCM	ICH	wk	1		77	AC	z		2		5	5	2	3
CCM	ICH	wk	1		77	AC	z		3		5	5	2	3
CCM	ICH	wk	1		44	TA					5	5	5	5
CCM	ICH	wk	1		44	TA	k				5	5	5	5
CCM	ICH	wk	1		44	TA	q				5	5	5	5
CCM	ICH	wk	1		44	TA	w				5	5	5	5
CCM	ICH	wk	1		44	TA	z				5	5	5	5
CCM	ICH	wk	1		99	RO					5	5	5	5
CCM	ICH	wk	1		99	RO	k				5	5	5	5
CCM	ICH	wk	1		99	RO	q				6	6	6	6
CCM	ICH	wk	1		99	RO	w				5	5	5	5
CCM	ICH	wk	1		99	RO	z				6	6	6	6
NKM	ESSF	wm			01	FA			2		5	5	4	4
NKM	ESSF	wm			01	FA			3		5	5	4	4
NKM	ESSF	wm			01	FA			4		5	5	5	5
NKM	ESSF	wm			01	FA			5		5	5	5	5
NKM	ESSF	wm			01	FA			6		2	1	2	2
NKM	ESSF	wm			01	FA			7		2	1	2	2
NKM	ESSF	wm			01	FA	k		2		5	5	4	4
NKM	ESSF	wm			01	FA	k		3		5	5	4	4
NKM	ESSF	wm			01	FA	k		4		5	5	5	5
NKM	ESSF	wm			01	FA	k		5		5	5	5	5
NKM	ESSF	wm			01	FA	k		6		2	1	2	2
NKM	ESSF	wm			01	FA	k		7		2	1	2	2



ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ESSF	wm			01	FA	w		2		5	5	4	4
NKM	ESSF	wm			01	FA	w		3		5	5	4	4
NKM	ESSF	wm			01	FA	w		4		5	5	5	5
NKM	ESSF	wm			01	FA	w		5		5	5	5	5
NKM	ESSF	wm			01	FA	w		6		2	1	2	2
NKM	ESSF	wm			01	FA	w		7		2	1	2	2
NKM	ESSF	wm			02	FR			2		5	5	5	5
NKM	ESSF	wm			02	FR			3		5	5	5	5
NKM	ESSF	wm			02	FR			4		5	5	5	5
NKM	ESSF	wm			02	FR			5		5	5	5	5
NKM	ESSF	wm			02	FR			6		3	2	4	5
NKM	ESSF	wm			02	FR			7		3	2	4	5
NKM	ESSF	wm			02	FR	k		2		5	5	5	5
NKM	ESSF	wm			02	FR	k		3		5	4	5	5
NKM	ESSF	wm			02	FR	k		4		5	4	5	5
NKM	ESSF	wm			02	FR	k		5		5	4	5	5
NKM	ESSF	wm			02	FR	k		6		3	2	4	5
NKM	ESSF	wm			02	FR	k		7		3	2	4	5
NKM	ESSF	wm			02	FR	w		2		5	5	5	5
NKM	ESSF	wm			02	FR	w		3		5	5	5	5
NKM	ESSF	wm			02	FR	w		4		5	5	5	5
NKM	ESSF	wm			02	FR	w		5		5	5	5	5
NKM	ESSF	wm			02	FR	w		6		3	2	4	5
NKM	ESSF	wm			02	FR	w		7		3	2	4	5
NKM	ESSF	wm			03	RA			2		5	5	4	4
NKM	ESSF	wm			03	RA			3		5	5	4	4
NKM	ESSF	wm			03	RA			4		5	5	5	5
NKM	ESSF	wm			03	RA			5		5	5	5	5
NKM	ESSF	wm			03	RA			6		2	3	3	3
NKM	ESSF	wm			03	RA			7		2	3	3	3
NKM	ESSF	wm			03	RA	k		2		5	5	4	4
NKM	ESSF	wm			03	RA	k		3		5	5	4	4
NKM	ESSF	wm			03	RA	k		4		5	5	5	5
NKM	ESSF	wm			03	RA	k		5		5	5	5	5
NKM	ESSF	wm			03	RA	k		6		2	3	3	3
NKM	ESSF	wm			03	RA	k		7		2	3	3	3
NKM	ESSF	wm			03	RA	w		2		5	5	4	4
NKM	ESSF	wm			03	RA	w		3		5	5	4	4
NKM	ESSF	wm			03	RA	w		4		5	5	5	5
NKM	ESSF	wm			03	RA	w		5		5	5	5	5
NKM	ESSF	wm			03	RA	w		6		2	3	3	4
NKM	ESSF	wm			03	RA	w		7		2	3	3	4
NKM	ESSF	wm			04	FQ			2		5	5	2	2

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ESSF	wm			04	FQ			3		5	5	2	2
NKM	ESSF	wm			04	FQ			4		5	5	4	4
NKM	ESSF	wm			04	FQ			5		5	5	4	4
NKM	ESSF	wm			04	FQ			6		2	1	2	2
NKM	ESSF	wm			04	FQ			7		2	1	1	1
NKM	ESSF	wm			04	FQ	k		2		5	5	2	2
NKM	ESSF	wm			04	FQ	k		3		5	5	2	2
NKM	ESSF	wm			04	FQ	k		4		5	5	4	4
NKM	ESSF	wm			04	FQ	k		5		5	5	4	4
NKM	ESSF	wm			04	FQ	k		6		2	1	2	2
NKM	ESSF	wm			04	FQ	k		7		2	1	1	1
NKM	ESSF	wm			04	FQ	w		2		5	5	2	2
NKM	ESSF	wm			04	FQ	w		3		5	5	2	2
NKM	ESSF	wm			04	FQ	w		4		5	5	4	4
NKM	ESSF	wm			04	FQ	w		5		5	5	4	4
NKM	ESSF	wm			04	FQ	w		6		2	1	2	2
NKM	ESSF	wm			04	FQ	w		7		2	1	1	2
NKM	ESSF	wm			77	AC			2		5	5	2	1
NKM	ESSF	wm			77	AC			3		5	5	2	1
NKM	ESSF	wm			77	AC	k		2		5	5	2	1
NKM	ESSF	wm			77	AC	k		3		5	5	2	1
NKM	ESSF	wm			77	AC	q		2		5	5	3	2
NKM	ESSF	wm			77	AC	q		3		5	5	3	2
NKM	ESSF	wm			77	AC	w		2		5	5	2	1
NKM	ESSF	wm			77	AC	w		3		5	5	2	1
NKM	ESSF	wm			77	AC	z		2		5	5	3	2
NKM	ESSF	wm			77	AC	z		3		5	5	3	2
NKM	ESSF	wm			44	TA					5	5	5	5
NKM	ESSF	wm			44	TA	k				5	5	5	5
NKM	ESSF	wm			44	TA	q				5	5	5	5
NKM	ESSF	wm			44	TA	w				5	5	5	5
NKM	ESSF	wm			44	TA	z				5	5	5	5
NKM	ESSF	wm			99	RO					5	5	5	5
NKM	ESSF	wm			99	RO	k				5	5	5	5
NKM	ESSF	wm			99	RO	q				6	6	6	6
NKM	ESSF	wm			99	RO	w				5	5	5	5
NKM	ESSF	wm			99	RO	z				6	6	6	6
CCM	IDF	All			All						6	6	6	6
NKM	AT					LA					6	5	6	6
NKM	AT				01	AH					6	5	5	4
NKM	AT				01	AH	k				6	5	5	5
NKM	AT				01	AH	q				6	6	6	6
NKM	AT				01	AH	w				6	5	5	4

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	AT				01	AH	z				6	6	6	6
NKM	AT				22	RU					6	5	5	6
NKM	AT				22	RU	k				6	5	5	6
NKM	AT				22	RU	q				6	6	6	6
NKM	AT				22	RU	w				6	5	5	6
NKM	AT				22	RU	z				6	6	6	6
NKM	AT				44	TA					6	5	5	6
NKM	AT				44	TA	k				6	5	5	6
NKM	AT				44	TA	q				6	6	6	6
NKM	AT				44	TA	w				6	5	5	6
NKM	AT				44	TA	z				6	6	6	6
NKM	AT				99	RO					6	5	5	6
NKM	AT				99	RO	k				6	5	5	6
NKM	AT				99	RO	q				6	6	6	6
NKM	AT				99	RO	w				6	5	5	6
NKM	AT				99	RO	z				6	6	6	6
NKM	ESSF	wc	1		01	LA					6	5	6	6
NKM	ESSF	wc	1		01	FR			2		5	5	5	5
NKM	ESSF	wc	1		01	FR			3		5	5	5	5
NKM	ESSF	wc	1		01	FR			4		5	5	5	5
NKM	ESSF	wc	1		01	FR			5		5	5	5	5
NKM	ESSF	wc	1		01	FR			6		4	4	4	4
NKM	ESSF	wc	1		01	FR			7		3	3	3	3
NKM	ESSF	wc	1		01	FR	k		2		5	5	5	5
NKM	ESSF	wc	1		01	FR	k		3		5	5	5	5
NKM	ESSF	wc	1		01	FR	k		4		5	5	5	5
NKM	ESSF	wc	1		01	FR	k		5		5	5	5	5
NKM	ESSF	wc	1		01	FR	k		6		4	4	4	4
NKM	ESSF	wc	1		01	FR	k		7		3	3	3	3
NKM	ESSF	wc	1		01	FR	w		2		5	5	5	5
NKM	ESSF	wc	1		01	FR	w		3		5	5	5	5
NKM	ESSF	wc	1		01	FR	w		4		5	5	5	5
NKM	ESSF	wc	1		01	FR	w		5		5	5	5	5
NKM	ESSF	wc	1		01	FR	w		6		4	4	4	4
NKM	ESSF	wc	1		01	FR	w		7		3	3	3	3
NKM	ESSF	wc	1		02	FF			2		5	5	5	5
NKM	ESSF	wc	1		02	FF			3		5	5	5	5
NKM	ESSF	wc	1		02	FF			4		5	5	5	5
NKM	ESSF	wc	1		02	FF			5		5	5	5	5
NKM	ESSF	wc	1		02	FF			6		4	4	4	4
NKM	ESSF	wc	1		02	FF			7		3	3	3	3
NKM	ESSF	wc	1		02	FF	k		2		5	5	5	5
NKM	ESSF	wc	1		02	FF	k		3		5	5	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ESSF	wc	1		02	FF	k		4		5	5	5	5
NKM	ESSF	wc	1		02	FF	k		5		5	5	5	5
NKM	ESSF	wc	1		02	FF	k		6		4	4	4	4
NKM	ESSF	wc	1		02	FF	k		7		3	3	3	3
NKM	ESSF	wc	1		02	FF	q		2		5	5	5	5
NKM	ESSF	wc	1		02	FF	q		3		5	5	5	5
NKM	ESSF	wc	1		02	FF	q		4		5	5	5	5
NKM	ESSF	wc	1		02	FF	q		5		5	5	5	5
NKM	ESSF	wc	1		02	FF	q		6		5	4	5	5
NKM	ESSF	wc	1		02	FF	q		7		5	4	5	5
NKM	ESSF	wc	1		02	FF	w		2		5	5	5	5
NKM	ESSF	wc	1		02	FF	w		3		5	5	5	5
NKM	ESSF	wc	1		02	FF	w		4		5	5	5	5
NKM	ESSF	wc	1		02	FF	w		5		5	5	5	5
NKM	ESSF	wc	1		02	FF	w		6		4	4	4	4
NKM	ESSF	wc	1		02	FF	w		7		3	3	3	3
NKM	ESSF	wc	1		02	FF	z		2		5	5	5	5
NKM	ESSF	wc	1		02	FF	z		3		5	5	5	5
NKM	ESSF	wc	1		02	FF	z		4		5	5	5	5
NKM	ESSF	wc	1		02	FF	z		5		5	5	5	5
NKM	ESSF	wc	1		02	FF	z		6		5	4	5	5
NKM	ESSF	wc	1		02	FF	z		7		5	4	5	5
NKM	ESSF	wc	1		03	FD			2		5	5	3	3
NKM	ESSF	wc	1		03	FD			3		5	5	3	3
NKM	ESSF	wc	1		03	FD			4		5	5	5	5
NKM	ESSF	wc	1		03	FD			5		4	5	4	4
NKM	ESSF	wc	1		03	FD			6		3	5	3	3
NKM	ESSF	wc	1		03	FD			7		2	4	2	2
NKM	ESSF	wc	1		03	FD	k		2		5	5	3	3
NKM	ESSF	wc	1		03	FD	k		3		5	5	3	3
NKM	ESSF	wc	1		03	FD	k		4		5	5	5	5
NKM	ESSF	wc	1		03	FD	k		5		4	5	4	4
NKM	ESSF	wc	1		03	FD	k		6		3	5	3	3
NKM	ESSF	wc	1		03	FD	k		7		2	4	2	2
NKM	ESSF	wc	1		03	FD	w		2		5	5	3	3
NKM	ESSF	wc	1		03	FD	w		3		5	5	3	3
NKM	ESSF	wc	1		03	FD	w		4		5	5	5	5
NKM	ESSF	wc	1		03	FD	w		5		4	5	4	4
NKM	ESSF	wc	1		03	FD	w		6		3	5	3	3
NKM	ESSF	wc	1		03	FD	w		7		2	4	2	2
NKM	ESSF	wc	1		04	FH			2		5	5	3	3
NKM	ESSF	wc	1		04	FH			3		5	5	3	3
NKM	ESSF	wc	1		04	FH			4		5	5	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ESSF	wc	1		04	FH			5		4	5	4	4
NKM	ESSF	wc	1		04	FH			6		3	5	3	3
NKM	ESSF	wc	1		04	FH			7		2	4	2	2
NKM	ESSF	wc	1		05	SS			2		5	5	4	4
NKM	ESSF	wc	1		05	SS			3		5	5	4	4
NKM	ESSF	wc	1		05	SS			4		5	5	5	5
NKM	ESSF	wc	1		05	SS			5		5	5	5	5
NKM	ESSF	wc	1		05	SS			6		5	4	4	4
NKM	ESSF	wc	1		05	SS			7		5	4	4	4
NKM	ESSF	wc	1		22	RU					5	5	5	5
NKM	ESSF	wc	1		22	RU	k				5	5	5	5
NKM	ESSF	wc	1		22	RU	q				5	5	5	5
NKM	ESSF	wc	1		22	RU	w				5	5	5	5
NKM	ESSF	wc	1		22	RU	z				5	5	5	5
NKM	ESSF	wc	1		44	TA					5	5	5	5
NKM	ESSF	wc	1		44	TA	k				5	5	5	5
NKM	ESSF	wc	1		44	TA	q				5	5	5	5
NKM	ESSF	wc	1		44	TA	w				5	5	5	5
NKM	ESSF	wc	1		44	TA	z				5	5	5	5
NKM	ESSF	wc	1		77	AC			2		5	5	2	2
NKM	ESSF	wc	1		77	AC			3		5	5	2	2
NKM	ESSF	wc	1		77	AC	k		2		5	5	3	1
NKM	ESSF	wc	1		77	AC	k		3		5	5	3	1
NKM	ESSF	wc	1		77	AC	q		2		5	5	4	3
NKM	ESSF	wc	1		77	AC	q		3		5	5	4	3
NKM	ESSF	wc	1		77	AC	w		2		5	5	3	4
NKM	ESSF	wc	1		77	AC	w		3		5	5	3	4
NKM	ESSF	wc	1		77	AC	z		2		5	5	4	5
NKM	ESSF	wc	1		77	AC	z		3		5	5	4	5
NKM	ESSF	wc	1		99	RO					5	5	5	5
NKM	ESSF	wc	1		99	RO	k				5	5	5	5
NKM	ESSF	wc	1		99	RO	q				6	6	6	6
NKM	ESSF	wc	1		99	RO	w				5	5	5	5
NKM	ESSF	wc	1		99	RO	z				6	6	6	6
NKM	ESSF	wc	4			LA					6	5	6	6
NKM	ESSF	wc	4		01	FR			2		5	5	5	5
NKM	ESSF	wc	4		01	FR			3		5	5	5	5
NKM	ESSF	wc	4		01	FR			4		5	5	5	5
NKM	ESSF	wc	4		01	FR			5		4	4	4	4
NKM	ESSF	wc	4		01	FR			6		3	2	3	3
NKM	ESSF	wc	4		01	FR			7		2	1	2	3
NKM	ESSF	wc	4		01	FR	w		2		5	4	5	5
NKM	ESSF	wc	4		01	FR	w		3		5	4	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ESSF	wc	4		01	FR	w		4		5	4	5	5
NKM	ESSF	wc	4		01	FR	w		5		4	3	4	4
NKM	ESSF	wc	4		01	FR	w		6		3	2	3	3
NKM	ESSF	wc	4		01	FR	w		7		2	1	2	3
NKM	ESSF	wc	4		01	FR	k		2		5	5	5	5
NKM	ESSF	wc	4		01	FR	k		3		5	5	5	5
NKM	ESSF	wc	4		01	FR	k		4		5	5	5	5
NKM	ESSF	wc	4		01	FR	k		5		4	4	4	4
NKM	ESSF	wc	4		01	FR	k		6		3	2	3	3
NKM	ESSF	wc	4		01	FR	k		7		2	2	2	3
NKM	ESSF	wc	4		02	FF			2		5	5	5	5
NKM	ESSF	wc	4		02	FF			3		5	5	5	5
NKM	ESSF	wc	4		02	FF			4		5	5	5	5
NKM	ESSF	wc	4		02	FF			5		5	5	5	5
NKM	ESSF	wc	4		02	FF			6		4	2	4	5
NKM	ESSF	wc	4		02	FF			7		4	2	4	4
NKM	ESSF	wc	4		02	FF	k		2		5	5	5	5
NKM	ESSF	wc	4		02	FF	k		3		5	5	5	5
NKM	ESSF	wc	4		02	FF	k		4		5	5	5	5
NKM	ESSF	wc	4		02	FF	k		5		5	5	5	5
NKM	ESSF	wc	4		02	FF	k		6		4	4	4	5
NKM	ESSF	wc	4		02	FF	k		7		4	3	4	5
NKM	ESSF	wc	4		02	FF	q		2		5	5	5	5
NKM	ESSF	wc	4		02	FF	q		3		5	5	5	5
NKM	ESSF	wc	4		02	FF	q		4		5	5	5	5
NKM	ESSF	wc	4		02	FF	q		5		5	5	5	5
NKM	ESSF	wc	4		02	FF	q		6		4	4	4	5
NKM	ESSF	wc	4		02	FF	q		7		4	3	4	5
NKM	ESSF	wc	4		02	FF	w		2		5	5	5	5
NKM	ESSF	wc	4		02	FF	w		3		5	5	5	5
NKM	ESSF	wc	4		02	FF	w		4		5	5	5	5
NKM	ESSF	wc	4		02	FF	w		5		4	3	4	5
NKM	ESSF	wc	4		02	FF	w		6		3	2	3	4
NKM	ESSF	wc	4		02	FF	w		7		2	1	2	3
NKM	ESSF	wc	4		02	FF	z		2		5	5	5	5
NKM	ESSF	wc	4		02	FF	z		3		5	5	5	5
NKM	ESSF	wc	4		02	FF	z		4		5	5	5	5
NKM	ESSF	wc	4		02	FF	z		5		5	5	5	5
NKM	ESSF	wc	4		02	FF	z		6		4	4	4	5
NKM	ESSF	wc	4		02	FF	z		7		4	3	3	5
NKM	ESSF	wc	4		03	FW			2		5	5	5	4
NKM	ESSF	wc	4		03	FW			3		5	5	5	4
NKM	ESSF	wc	4		03	FW			4		5	5	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ESSF	wc	4		03	FW			5		5	5	5	5
NKM	ESSF	wc	4		03	FW			6		4	2	4	5
NKM	ESSF	wc	4		03	FW			7		4	2	4	4
NKM	ESSF	wc	4		03	FW	k		2		5	5	5	4
NKM	ESSF	wc	4		03	FW	k		3		5	5	5	4
NKM	ESSF	wc	4		03	FW	k		4		5	5	5	5
NKM	ESSF	wc	4		03	FW	k		5		5	5	5	5
NKM	ESSF	wc	4		03	FW	k		6		4	4	4	5
NKM	ESSF	wc	4		03	FW	k		7		4	3	4	4
NKM	ESSF	wc	4		03	FW	q		2		5	5	5	5
NKM	ESSF	wc	4		03	FW	q		3		5	5	5	5
NKM	ESSF	wc	4		03	FW	q		4		5	5	5	5
NKM	ESSF	wc	4		03	FW	q		5		5	5	5	5
NKM	ESSF	wc	4		03	FW	q		6		4	4	4	5
NKM	ESSF	wc	4		03	FW	q		7		4	3	4	5
NKM	ESSF	wc	4		03	FW	w		2		5	5	5	4
NKM	ESSF	wc	4		03	FW	w		3		5	5	5	5
NKM	ESSF	wc	4		03	FW	w		4		5	5	5	5
NKM	ESSF	wc	4		03	FW	w		5		4	3	4	5
NKM	ESSF	wc	4		03	FW	w		6		3	2	3	4
NKM	ESSF	wc	4		03	FW	w		7		2	1	2	3
NKM	ESSF	wc	4		03	FW	z		2		5	5	5	4
NKM	ESSF	wc	4		03	FW	z		3		5	5	5	5
NKM	ESSF	wc	4		03	FW	z		4		5	5	5	5
NKM	ESSF	wc	4		03	FW	z		5		5	5	5	5
NKM	ESSF	wc	4		03	FW	z		6		4	4	4	5
NKM	ESSF	wc	4		03	FW	z		7		4	3	3	5
NKM	ESSF	wc	4		04	RF			2		5	5	5	4
NKM	ESSF	wc	4		04	RF			3		5	5	5	4
NKM	ESSF	wc	4		04	RF			4		5	5	5	5
NKM	ESSF	wc	4		04	RF			5		5	5	5	5
NKM	ESSF	wc	4		04	RF			6		4	2	4	5
NKM	ESSF	wc	4		04	RF			7		4	2	4	4
NKM	ESSF	wc	4		04	RF	k		2		5	5	5	4
NKM	ESSF	wc	4		04	RF	k		3		5	5	5	4
NKM	ESSF	wc	4		04	RF	k		4		5	5	5	5
NKM	ESSF	wc	4		04	RF	k		5		5	5	5	5
NKM	ESSF	wc	4		04	RF	k		6		4	4	4	5
NKM	ESSF	wc	4		04	RF	k		7		4	3	4	4
NKM	ESSF	wc	4		04	RF	q		2		5	5	5	5
NKM	ESSF	wc	4		04	RF	q		3		5	5	5	5
NKM	ESSF	wc	4		04	RF	q		4		5	5	5	5
NKM	ESSF	wc	4		04	RF	q		5		5	5	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ESSF	wc	4		04	RF	q		6		4	4	4	5
NKM	ESSF	wc	4		04	RF	q		7		4	3	4	5
NKM	ESSF	wc	4		04	RF	w		2		5	5	5	4
NKM	ESSF	wc	4		04	RF	w		3		5	5	5	5
NKM	ESSF	wc	4		04	RF	w		4		5	5	5	5
NKM	ESSF	wc	4		04	RF	w		5		4	3	4	5
NKM	ESSF	wc	4		04	RF	w		6		3	2	3	4
NKM	ESSF	wc	4		04	RF	w		7		2	1	2	3
NKM	ESSF	wc	4		05	FL			2		5	5	3	2
NKM	ESSF	wc	4		05	FL			3		5	5	3	2
NKM	ESSF	wc	4		05	FL			4		5	5	5	4
NKM	ESSF	wc	4		05	FL			5		5	5	5	4
NKM	ESSF	wc	4		05	FL			6		4	2	3	3
NKM	ESSF	wc	4		05	FL			7		4	2	2	2
NKM	ESSF	wc	4		05	FL	k		2		5	5	5	3
NKM	ESSF	wc	4		05	FL	k		3		5	5	5	3
NKM	ESSF	wc	4		05	FL	k		4		5	5	5	4
NKM	ESSF	wc	4		05	FL	k		5		5	5	5	5
NKM	ESSF	wc	4		05	FL	k		6		4	4	4	4
NKM	ESSF	wc	4		05	FL	k		7		4	3	4	3
NKM	ESSF	wc	4		05	FL	w		2		5	5	5	3
NKM	ESSF	wc	4		05	FL	w		3		5	5	5	3
NKM	ESSF	wc	4		05	FL	w		4		5	5	5	4
NKM	ESSF	wc	4		05	FL	w		5		4	3	4	4
NKM	ESSF	wc	4		05	FL	w		6		3	2	3	3
NKM	ESSF	wc	4		05	FL	w		7		2	1	2	3
NKM	ESSF	wc	4		06	FH			2		5	5	3	2
NKM	ESSF	wc	4		06	FH			3		5	5	3	2
NKM	ESSF	wc	4		06	FH			4		5	5	5	4
NKM	ESSF	wc	4		06	FH			5		5	5	5	4
NKM	ESSF	wc	4		06	FH			6		4	2	3	3
NKM	ESSF	wc	4		06	FH			7		4	2	2	2
NKM	ESSF	wc	4		07	SS			2		5	5	4	4
NKM	ESSF	wc	4		07	SS			3		5	5	4	4
NKM	ESSF	wc	4		07	SS			4		5	5	5	5
NKM	ESSF	wc	4		07	SS			5		5	5	5	5
NKM	ESSF	wc	4		07	SS			6		4	3	4	4
NKM	ESSF	wc	4		07	SS			7		4	2	4	4
NKM	ESSF	wc	4		08	WS			2		5	5	5	5
NKM	ESSF	wc	4		08	WS			3		5	5	5	5
NKM	ESSF	wc	4		77	AC			2		5	5	3	2
NKM	ESSF	wc	4		77	AC			3		5	5	3	2
NKM	ESSF	wc	4		77	AC	k		2		5	5	4	2



ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ESSF	wc	4		77	AC	k		3		5	5	4	2
NKM	ESSF	wc	4		77	AC	q		2		5	5	5	3
NKM	ESSF	wc	4		77	AC	q		3		5	5	5	3
NKM	ESSF	wc	4		77	AC	w		2		5	5	4	1
NKM	ESSF	wc	4		77	AC	w		3		5	5	4	1
NKM	ESSF	wc	4		77	AC	z		2		5	5	5	3
NKM	ESSF	wc	4		77	AC	z		3		5	5	5	3
NKM	ESSF	wc	4		99	RO					5	5	5	5
NKM	ESSF	wc	4		99	RO	k				5	5	5	5
NKM	ESSF	wc	4		99	RO	q				6	6	6	6
NKM	ESSF	wc	4		99	RO	w				5	5	5	5
NKM	ESSF	wc	4		99	RO	z				6	6	6	6
NKM	ESSF	wc	4		99	TA					5	5	5	5
NKM	ESSF	wc	4		99	TA	k				5	5	5	5
NKM	ESSF	wc	4		99	TA	q				5	5	5	6
NKM	ESSF	wc	4		99	TA	w				5	5	5	5
NKM	ESSF	wc	4		99	TA	z				5	5	5	6
NKM	ESSF	wcp			01	MH			2		5	4	5	4
NKM	ESSF	wcp			01	MH	k		2		5	4	5	4
NKM	ESSF	wcp			01	MH	q		2		5	5	5	5
NKM	ESSF	wcp			01	MH	w		2		5	4	5	4
NKM	ESSF	wcp			01	MH	z		2		5	5	5	5
NKM	ESSF	wcp			02	FH			2		5	1	2	2
NKM	ESSF	wcp			02	FH			3		5	1	2	2
NKM	ESSF	wcp			02	FH			4		5	1	2	2
NKM	ESSF	wcp			02	FH			5		5	1	2	2
NKM	ESSF	wcp			02	FH			6		5	1	2	2
NKM	ESSF	wcp			02	FH			7		4	1	2	1
NKM	ESSF	wcp			02	FH	k		2		5	1	2	3
NKM	ESSF	wcp			02	FH	k		3		5	1	2	3
NKM	ESSF	wcp			02	FH	k		4		5	1	2	3
NKM	ESSF	wcp			02	FH	k		5		5	1	2	3
NKM	ESSF	wcp			02	FH	k		6		5	1	2	3
NKM	ESSF	wcp			02	FH	k		7		4	1	2	3
NKM	ESSF	wcp			02	FH	q		2		5	3	4	5
NKM	ESSF	wcp			02	FH	q		3		5	3	4	5
NKM	ESSF	wcp			02	FH	q		4		5	3	4	5
NKM	ESSF	wcp			02	FH	q		5		5	3	4	5
NKM	ESSF	wcp			02	FH	q		6		5	3	4	5
NKM	ESSF	wcp			02	FH	q		7		5	3	4	5
NKM	ESSF	wcp			02	FH	w		2		5	1	2	3
NKM	ESSF	wcp			02	FH	w		3		5	1	2	3
NKM	ESSF	wcp			02	FH	w		4		5	1	2	3

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ESSF	wcp			02	FH	w		5		5	1	2	3
NKM	ESSF	wcp			02	FH	w		6		5	1	2	3
NKM	ESSF	wcp			02	FH	w		7		4	1	2	3
NKM	ESSF	wcp			02	FH	z		2		5	3	4	5
NKM	ESSF	wcp			02	FH	z		3		5	3	4	5
NKM	ESSF	wcp			02	FH	z		4		5	3	4	5
NKM	ESSF	wcp			02	FH	z		5		5	3	4	5
NKM	ESSF	wcp			02	FH	z		6		5	3	4	5
NKM	ESSF	wcp			02	FH	z		7		5	3	4	5
NKM	ESSF	wcp			03	JM			2		5	5	5	5
NKM	ESSF	wcp			03	JM			3		5	5	5	5
NKM	ESSF	wcp			03	JM	k		2		5	5	5	5
NKM	ESSF	wcp			03	JM	k		3		5	5	5	5
NKM	ESSF	wcp			03	JM	q		2		5	5	5	5
NKM	ESSF	wcp			03	JM	q		3		5	5	5	5
NKM	ESSF	wcp			03	JM	w		2		5	5	5	5
NKM	ESSF	wcp			03	JM	w		3		5	5	5	5
NKM	ESSF	wcp			03	JM	z		2		5	5	5	5
NKM	ESSF	wcp			03	JM	z		3		5	5	5	5
NKM	ESSF	wcp			04	SW			2		5	5	4	2
NKM	ESSF	wcp			04	SW	k		2		5	5	4	2
NKM	ESSF	wcp			04	SW	w		2		5	5	4	2
NKM	ESSF	wcp			77	AC			2		5	5	4	4
NKM	ESSF	wcp			77	AC			3		5	5	4	4
NKM	ESSF	wcp			77	AC	k		2		5	5	4	2
NKM	ESSF	wcp			77	AC	k		3		5	5	4	2
NKM	ESSF	wcp			77	AC	q		2		5	5	5	4
NKM	ESSF	wcp			77	AC	q		3		5	5	5	4
NKM	ESSF	wcp			77	AC	w		2		5	5	4	3
NKM	ESSF	wcp			77	AC	w		3		5	5	4	3
NKM	ESSF	wcp			77	AC	z		2		5	5	5	5
NKM	ESSF	wcp			77	AC	z		3		5	5	5	5
NKM	ESSF	wcp			44	TA					5	5	5	5
NKM	ESSF	wcp			44	TA	k				5	5	5	5
NKM	ESSF	wcp			44	TA	q				5	5	5	5
NKM	ESSF	wcp			44	TA	w				5	5	5	5
NKM	ESSF	wcp			44	TA	z				5	5	5	5
NKM	ESSF	wcp			99	RO					5	5	5	5
NKM	ESSF	wcp			99	RO	k				5	5	5	5
NKM	ESSF	wcp			99	RO	q				6	6	6	6
NKM	ESSF	wcp			99	RO	w				5	5	5	5
NKM	ESSF	wcp			99	RO	z				6	6	6	6
NKM	ICH	mw	2		01	HF			2		4	5	4	2

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ICH	mw	2		01	HF			3		4	5	4	2
NKM	ICH	mw	2		01	HF			4		4	5	4	4
NKM	ICH	mw	2		01	HF			5		4	5	4	4
NKM	ICH	mw	2		01	HF			6		1	4	1	1
NKM	ICH	mw	2		01	HF			7		1	4	1	1
NKM	ICH	mw	2		01	HF	k		2		4	5	4	2
NKM	ICH	mw	2		01	HF	k		3		4	5	4	2
NKM	ICH	mw	2		01	HF	k		4		4	5	4	4
NKM	ICH	mw	2		01	HF	k		5		4	5	4	4
NKM	ICH	mw	2		01	HF	k		6		1	4	1	1
NKM	ICH	mw	2		01	HF	k		7		1	4	1	1
NKM	ICH	mw	2		01	HF	w		2		4	5	4	2
NKM	ICH	mw	2		01	HF	w		3		4	5	4	2
NKM	ICH	mw	2		01	HF	w		4		4	5	4	4
NKM	ICH	mw	2		01	HF	w		5		4	5	4	4
NKM	ICH	mw	2		01	HF	w		6		1	4	1	1
NKM	ICH	mw	2		01	HF	w		7		1	4	1	1
NKM	ICH	mw	2		02	RC			2		5	5	5	5
NKM	ICH	mw	2		02	RC			3		5	5	5	5
NKM	ICH	mw	2		02	RC			4		5	5	5	5
NKM	ICH	mw	2		02	RC			5		5	5	5	5
NKM	ICH	mw	2		02	RC			6		4	4	5	5
NKM	ICH	mw	2		02	RC			7		4	4	5	5
NKM	ICH	mw	2		02	RC	k		2		5	5	5	5
NKM	ICH	mw	2		02	RC	k		3		5	5	5	5
NKM	ICH	mw	2		02	RC	k		4		5	5	5	5
NKM	ICH	mw	2		02	RC	k		5		5	5	5	5
NKM	ICH	mw	2		02	RC	k		6		4	4	5	5
NKM	ICH	mw	2		02	RC	k		7		4	4	5	5
NKM	ICH	mw	2		02	RC	q		2		5	5	5	5
NKM	ICH	mw	2		02	RC	q		3		5	5	5	5
NKM	ICH	mw	2		02	RC	q		4		5	5	5	5
NKM	ICH	mw	2		02	RC	q		5		5	5	5	5
NKM	ICH	mw	2		02	RC	q		6		5	5	5	5
NKM	ICH	mw	2		02	RC	q		7		5	5	5	5
NKM	ICH	mw	2		02	RC	w		2		5	5	5	5
NKM	ICH	mw	2		02	RC	w		3		5	5	5	5
NKM	ICH	mw	2		02	RC	w		4		5	5	5	5
NKM	ICH	mw	2		02	RC	w		5		5	5	5	5
NKM	ICH	mw	2		02	RC	w		6		4	4	5	5
NKM	ICH	mw	2		02	RC	w		7		4	4	5	5
NKM	ICH	mw	2		02	RC	z		2		5	5	5	5
NKM	ICH	mw	2		02	RC	z		3		5	5	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ICH	mw	2		02	RC	z		4		5	5	5	5
NKM	ICH	mw	2		02	RC	z		5		5	5	5	5
NKM	ICH	mw	2		02	RC	z		6		5	5	5	5
NKM	ICH	mw	2		02	RC	z		7		5	5	5	5
NKM	ICH	mw	2		03	DF			2		3	5	3	4
NKM	ICH	mw	2		03	DF			3		3	5	3	4
NKM	ICH	mw	2		03	DF			4		4	5	4	4
NKM	ICH	mw	2		03	DF			5		4	5	4	4
NKM	ICH	mw	2		03	DF			6		3	4	3	3
NKM	ICH	mw	2		03	DF			7		2	3	2	3
NKM	ICH	mw	2		03	DF	w		2		3	5	3	4
NKM	ICH	mw	2		03	DF	w		3		3	5	3	4
NKM	ICH	mw	2		03	DF	w		4		4	5	4	4
NKM	ICH	mw	2		03	DF	w		5		4	5	4	4
NKM	ICH	mw	2		03	DF	w		6		3	4	3	3
NKM	ICH	mw	2		03	DF	w		7		2	3	2	3
NKM	ICH	mw	2		03	DF	z		2		3	5	3	4
NKM	ICH	mw	2		03	DF	z		3		3	5	3	4
NKM	ICH	mw	2		03	DF	z		4		4	5	4	5
NKM	ICH	mw	2		03	DF	z		5		4	5	4	5
NKM	ICH	mw	2		03	DF	z		6		3	4	3	4
NKM	ICH	mw	2		03	DF	z		7		2	3	2	4
NKM	ICH	mw	2		04	RF			2		3	5	3	4
NKM	ICH	mw	2		04	RF			3		3	5	3	4
NKM	ICH	mw	2		04	RF			4		4	5	4	4
NKM	ICH	mw	2		04	RF			5		4	5	4	4
NKM	ICH	mw	2		04	RF			6		3	4	3	3
NKM	ICH	mw	2		04	RF			7		2	3	2	3
NKM	ICH	mw	2		04	RF	k		2		3	5	3	4
NKM	ICH	mw	2		04	RF	k		3		3	5	3	4
NKM	ICH	mw	2		04	RF	k		4		4	5	4	4
NKM	ICH	mw	2		04	RF	k		5		4	5	4	4
NKM	ICH	mw	2		04	RF	k		6		3	4	3	3
NKM	ICH	mw	2		04	RF	k		7		2	3	2	3
NKM	ICH	mw	2		04	RF	q		2		3	5	3	4
NKM	ICH	mw	2		04	RF	q		3		3	5	3	4
NKM	ICH	mw	2		04	RF	q		4		4	5	4	5
NKM	ICH	mw	2		04	RF	q		5		4	5	4	5
NKM	ICH	mw	2		04	RF	q		6		3	4	3	4
NKM	ICH	mw	2		04	RF	q		7		2	3	2	4
NKM	ICH	mw	2		05	HO			2		4	5	2	1
NKM	ICH	mw	2		05	HO			3		4	5	3	2
NKM	ICH	mw	2		05	HO			4		5	5	4	3

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ICH	mw	2		05	HO			5		4	4	4	3
NKM	ICH	mw	2		05	HO			6		1	3	1	1
NKM	ICH	mw	2		05	HO			7		1	2	1	1
NKM	ICH	mw	2		05	HO	k		2		4	5	2	1
NKM	ICH	mw	2		05	HO	k		3		4	5	3	2
NKM	ICH	mw	2		05	HO	k		4		5	5	4	3
NKM	ICH	mw	2		05	HO	k		5		4	4	4	3
NKM	ICH	mw	2		05	HO	k		6		1	3	1	1
NKM	ICH	mw	2		05	HO	k		7		1	2	1	1
NKM	ICH	mw	2		05	HO	q		2		3	5	2	2
NKM	ICH	mw	2		05	HO	q		3		3	5	2	3
NKM	ICH	mw	2		05	HO	q		4		4	5	4	5
NKM	ICH	mw	2		05	HO	q		5		4	5	4	5
NKM	ICH	mw	2		05	HO	q		6		2	4	4	3
NKM	ICH	mw	2		05	HO	q		7		2	4	3	2
NKM	ICH	mw	2		05	HO	w		2		4	5	2	2
NKM	ICH	mw	2		05	HO	w		3		4	5	3	2
NKM	ICH	mw	2		05	HO	w		4		5	5	4	3
NKM	ICH	mw	2		05	HO	w		5		4	4	4	3
NKM	ICH	mw	2		05	HO	w		6		1	3	1	2
NKM	ICH	mw	2		05	HO	w		7		1	2	1	2
NKM	ICH	mw	2		05	HO	z		2		3	5	2	3
NKM	ICH	mw	2		05	HO	z		3		3	5	2	4
NKM	ICH	mw	2		05	HO	z		4		4	5	4	5
NKM	ICH	mw	2		05	HO	z		5		4	5	4	5
NKM	ICH	mw	2		05	HO	z		6		3	4	4	3
NKM	ICH	mw	2		05	HO	z		7		3	4	3	3
NKM	ICH	mw	2		06	RD			2		4	5	2	1
NKM	ICH	mw	2		06	RD			3		4	5	3	2
NKM	ICH	mw	2		06	RD			4		5	5	4	3
NKM	ICH	mw	2		06	RD			5		4	4	4	3
NKM	ICH	mw	2		06	RD			6		1	3	1	1
NKM	ICH	mw	2		06	RD			7		1	2	1	1
NKM	ICH	mw	2		06	RD	k		2		4	5	2	1
NKM	ICH	mw	2		06	RD	k		3		4	5	3	2
NKM	ICH	mw	2		06	RD	k		4		5	5	4	3
NKM	ICH	mw	2		06	RD	k		5		4	4	4	3
NKM	ICH	mw	2		06	RD	k		6		1	3	1	1
NKM	ICH	mw	2		06	RD	k		7		1	2	1	1
NKM	ICH	mw	2		06	RD	w		2		4	5	2	2
NKM	ICH	mw	2		06	RD	w		3		4	5	3	2
NKM	ICH	mw	2		06	RD	w		4		5	5	4	3
NKM	ICH	mw	2		06	RD	w		5		4	4	4	3

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ICH	mw	2		06	RD	w		6		1	3	1	2
NKM	ICH	mw	2		06	RD	w		7		1	2	1	2
NKM	ICH	mw	2		07				2		4	5	4	4
NKM	ICH	mw	2		07				3		4	5	4	4
NKM	ICH	mw	2		07				4		5	5	4	5
NKM	ICH	mw	2		07				5		5	5	4	5
NKM	ICH	mw	2		07				6		3	4	3	4
NKM	ICH	mw	2		07				7		3	4	3	4
NKM	ICH	mw	2		08				2		4	5	2	1
NKM	ICH	mw	2		08				3		4	5	3	3
NKM	ICH	mw	2		08				4		5	5	4	4
NKM	ICH	mw	2		08				5		5	5	4	4
NKM	ICH	mw	2		08				6		3	4	3	2
NKM	ICH	mw	2		08				7		3	4	3	2
NKM	ICH	mw	2		09	BS			2		5	5	4	4
NKM	ICH	mw	2		09	BS			3		5	5	4	4
NKM	ICH	mw	2		09	BS			4		5	5	5	5
NKM	ICH	mw	2		09	BS			5		5	5	5	5
NKM	ICH	mw	2		09	BS			6		4	5	4	4
NKM	ICH	mw	2		09	BS			7		4	5	4	4
NKM	ICH	mw	2		77	AC			2		5	5	1	1
NKM	ICH	mw	2		77	AC			3		5	5	2	1
NKM	ICH	mw	2		77	AC	k		2		5	5	1	1
NKM	ICH	mw	2		77	AC	k		3		5	5	1	1
NKM	ICH	mw	2		77	AC	q		2		5	5	2	2
NKM	ICH	mw	2		77	AC	q		3		5	5	2	2
NKM	ICH	mw	2		77	AC	w		2		5	5	1	1
NKM	ICH	mw	2		77	AC	w		3		5	5	1	1
NKM	ICH	mw	2		77	AC	z		2		5	5	2	2
NKM	ICH	mw	2		77	AC	z		3		5	5	2	2
NKM	ICH	mw	2		44	TA					5	5	5	5
NKM	ICH	mw	2		44	TA	k				5	5	5	5
NKM	ICH	mw	2		44	TA	q				5	5	5	5
NKM	ICH	mw	2		44	TA	w				5	5	5	5
NKM	ICH	mw	2		44	TA	z				5	5	5	5
NKM	ICH	mw	2		99	RO					5	5	5	5
NKM	ICH	mw	2		99	RO	k				5	5	5	5
NKM	ICH	mw	2		99	RO	q				5	5	5	5
NKM	ICH	mw	2		99	RO	w				5	5	5	5
NKM	ICH	mw	2		99	RO	z				5	5	5	5
NKM	ICH	mw	3		01	HF			2		4	5	4	2
NKM	ICH	mw	3		01	HF			3		4	5	4	2
NKM	ICH	mw	3		01	HF			4		4	5	4	4

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ICH	mw	3		01	HF			5		4	5	4	4
NKM	ICH	mw	3		01	HF			6		1	4	1	1
NKM	ICH	mw	3		01	HF			7		1	4	1	1
NKM	ICH	mw	3		01	HF	k		2		4	5	4	2
NKM	ICH	mw	3		01	HF	k		3		4	5	4	2
NKM	ICH	mw	3		01	HF	k		4		4	5	4	4
NKM	ICH	mw	3		01	HF	k		5		4	5	4	4
NKM	ICH	mw	3		01	HF	k		6		1	4	1	1
NKM	ICH	mw	3		01	HF	k		7		1	4	1	1
NKM	ICH	mw	3		01	HF	w		2		4	5	4	2
NKM	ICH	mw	3		01	HF	w		3		4	5	4	2
NKM	ICH	mw	3		01	HF	w		4		4	5	4	4
NKM	ICH	mw	3		01	HF	w		5		4	5	4	4
NKM	ICH	mw	3		01	HF	w		6		1	4	1	1
NKM	ICH	mw	3		01	HF	w		7		1	4	1	1
NKM	ICH	mw	3		02	DJ			2		5	5	5	5
NKM	ICH	mw	3		02	DJ			3		5	5	5	5
NKM	ICH	mw	3		02	DJ			4		5	5	5	5
NKM	ICH	mw	3		02	DJ			5		5	5	5	5
NKM	ICH	mw	3		02	DJ			6		4	4	5	5
NKM	ICH	mw	3		02	DJ			7		4	4	5	5
NKM	ICH	mw	3		02	DJ	k		2		5	5	5	5
NKM	ICH	mw	3		02	DJ	k		3		5	5	5	5
NKM	ICH	mw	3		02	DJ	k		4		5	5	5	5
NKM	ICH	mw	3		02	DJ	k		5		5	5	5	5
NKM	ICH	mw	3		02	DJ	k		6		4	4	5	5
NKM	ICH	mw	3		02	DJ	k		7		4	4	5	5
NKM	ICH	mw	3		02	DJ	q		2		5	5	5	5
NKM	ICH	mw	3		02	DJ	q		3		5	5	5	5
NKM	ICH	mw	3		02	DJ	q		4		5	5	5	5
NKM	ICH	mw	3		02	DJ	q		5		5	5	5	5
NKM	ICH	mw	3		02	DJ	q		6		5	5	5	5
NKM	ICH	mw	3		02	DJ	q		7		5	5	5	5
NKM	ICH	mw	3		02	DJ	w		2		5	5	5	5
NKM	ICH	mw	3		02	DJ	w		3		5	5	5	5
NKM	ICH	mw	3		02	DJ	w		4		5	5	5	5
NKM	ICH	mw	3		02	DJ	w		5		5	5	5	5
NKM	ICH	mw	3		02	DJ	w		6		4	4	5	5
NKM	ICH	mw	3		02	DJ	w		7		4	4	5	5
NKM	ICH	mw	3		02	DJ	z		2		5	5	5	5
NKM	ICH	mw	3		02	DJ	z		3		5	5	5	5
NKM	ICH	mw	3		02	DJ	z		4		5	5	5	5
NKM	ICH	mw	3		02	DJ	z		5		5	5	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ICH	mw	3		02	DJ	z		6		5	5	5	5
NKM	ICH	mw	3		02	DJ	z		7		5	5	5	5
NKM	ICH	mw	3		03	DP			2		3	5	3	4
NKM	ICH	mw	3		03	DP			3		3	5	3	4
NKM	ICH	mw	3		03	DP			4		4	5	4	4
NKM	ICH	mw	3		03	DP			5		4	5	4	4
NKM	ICH	mw	3		03	DP			6		3	4	3	3
NKM	ICH	mw	3		03	DP			7		2	3	2	3
NKM	ICH	mw	3		03	DP	w		2		3	5	3	4
NKM	ICH	mw	3		03	DP	w		3		3	5	3	4
NKM	ICH	mw	3		03	DP	w		4		4	5	4	4
NKM	ICH	mw	3		03	DP	w		5		4	5	4	4
NKM	ICH	mw	3		03	DP	w		6		3	4	3	3
NKM	ICH	mw	3		03	DP	w		7		2	3	2	3
NKM	ICH	mw	3		03	DP	z		2		3	5	3	4
NKM	ICH	mw	3		03	DP	z		3		3	5	3	4
NKM	ICH	mw	3		03	DP	z		4		4	5	4	5
NKM	ICH	mw	3		03	DP	z		5		4	5	4	5
NKM	ICH	mw	3		03	DP	z		6		3	4	3	4
NKM	ICH	mw	3		03	DP	z		7		2	3	2	4
NKM	ICH	mw	3		04	RS			2		3	5	3	4
NKM	ICH	mw	3		04	RS			3		3	5	3	4
NKM	ICH	mw	3		04	RS			4		4	5	4	4
NKM	ICH	mw	3		04	RS			5		4	5	4	4
NKM	ICH	mw	3		04	RS			6		3	4	3	3
NKM	ICH	mw	3		04	RS			7		2	3	2	3
NKM	ICH	mw	3		04	RS	k		2		3	5	3	4
NKM	ICH	mw	3		04	RS	k		3		3	5	3	4
NKM	ICH	mw	3		04	RS	k		4		4	5	4	4
NKM	ICH	mw	3		04	RS	k		5		4	5	4	4
NKM	ICH	mw	3		04	RS	k		6		3	4	3	3
NKM	ICH	mw	3		04	RS	k		7		2	3	2	3
NKM	ICH	mw	3		04	RS	q		2		3	5	3	4
NKM	ICH	mw	3		04	RS	q		3		3	5	3	4
NKM	ICH	mw	3		04	RS	q		4		4	5	4	5
NKM	ICH	mw	3		04	RS	q		5		4	5	4	5
NKM	ICH	mw	3		04	RS	q		6		3	4	3	4
NKM	ICH	mw	3		04	RS	q		7		2	3	2	4
NKM	ICH	mw	3		05	RF			2		3	5	3	4
NKM	ICH	mw	3		05	RF			3		3	5	3	4
NKM	ICH	mw	3		05	RF			4		4	5	4	4
NKM	ICH	mw	3		05	RF			5		4	5	4	4
NKM	ICH	mw	3		05	RF			6		3	4	3	3



ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ICH	mw	3		05	RF			7		2	3	2	3
NKM	ICH	mw	3		05	RF	k		2		3	5	3	4
NKM	ICH	mw	3		05	RF	k		3		3	5	3	4
NKM	ICH	mw	3		05	RF	k		4		4	5	4	4
NKM	ICH	mw	3		05	RF	k		5		4	5	4	4
NKM	ICH	mw	3		05	RF	k		6		3	4	3	3
NKM	ICH	mw	3		05	RF	k		7		2	3	2	3
NKM	ICH	mw	3		05	RF	q		2		3	5	3	4
NKM	ICH	mw	3		05	RF	q		3		3	5	3	4
NKM	ICH	mw	3		05	RF	q		4		4	5	4	5
NKM	ICH	mw	3		05	RF	q		5		4	5	4	5
NKM	ICH	mw	3		05	RF	q		6		3	4	3	4
NKM	ICH	mw	3		05	RF	q		7		2	3	2	4
NKM	ICH	mw	3		07	RD			2		4	5	2	1
NKM	ICH	mw	3		07	RD			3		4	5	3	2
NKM	ICH	mw	3		07	RD			4		5	5	4	3
NKM	ICH	mw	3		07	RD			5		4	4	4	3
NKM	ICH	mw	3		07	RD			6		1	3	1	1
NKM	ICH	mw	3		07	RD			7		1	2	1	1
NKM	ICH	mw	3		07	RD	k		2		4	5	2	1
NKM	ICH	mw	3		07	RD	k		3		4	5	3	2
NKM	ICH	mw	3		07	RD	k		4		5	5	4	3
NKM	ICH	mw	3		07	RD	k		5		4	4	4	3
NKM	ICH	mw	3		07	RD	k		6		1	3	1	1
NKM	ICH	mw	3		07	RD	k		7		1	2	1	1
NKM	ICH	mw	3		07	RD	q		2		4	5	2	1
NKM	ICH	mw	3		07	RD	q		3		4	5	3	2
NKM	ICH	mw	3		07	RD	q		4		5	5	4	3
NKM	ICH	mw	3		07	RD	q		5		4	4	4	3
NKM	ICH	mw	3		07	RD	q		6		2	3	2	2
NKM	ICH	mw	3		07	RD	q		7		2	2	2	2
NKM	ICH	mw	3		07	RD	w		2		4	5	2	2
NKM	ICH	mw	3		07	RD	w		3		4	5	3	2
NKM	ICH	mw	3		07	RD	w		4		5	5	4	3
NKM	ICH	mw	3		07	RD	w		5		4	4	4	3
NKM	ICH	mw	3		07	RD	w		6		1	3	1	2
NKM	ICH	mw	3		07	RD	w		7		1	2	1	2
NKM	ICH	mw	3		07	RD	z		2		4	5	2	2
NKM	ICH	mw	3		07	RD	z		3		4	5	3	2
NKM	ICH	mw	3		07	RD	z		4		5	5	4	3
NKM	ICH	mw	3		07	RD	z		5		4	4	4	3
NKM	ICH	mw	3		07	RD	z		6		2	3	2	2
NKM	ICH	mw	3		07	RD	z		7		2	2	2	2

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ICH	mw	3		08	RC			2		4	5	2	1
NKM	ICH	mw	3		08	RC			3		4	5	3	3
NKM	ICH	mw	3		08	RC			4		5	5	4	4
NKM	ICH	mw	3		08	RC			5		5	5	4	4
NKM	ICH	mw	3		08	RC			6		3	4	3	2
NKM	ICH	mw	3		08	RC			7		3	4	3	2
NKM	ICH	mw	3		09	SE			2		5	5	4	4
NKM	ICH	mw	3		09	SE			3		5	5	4	4
NKM	ICH	mw	3		09	SE			4		5	5	5	5
NKM	ICH	mw	3		09	SE			5		5	5	5	5
NKM	ICH	mw	3		09	SE			6		4	5	4	4
NKM	ICH	mw	3		09	SE			7		4	5	4	4
NKM	ICH	mw	3		77	AC			2		5	5	1	1
NKM	ICH	mw	3		77	AC			3		5	5	2	1
NKM	ICH	mw	3		77	AC	k		2		5	5	1	1
NKM	ICH	mw	3		77	AC	k		3		5	5	1	1
NKM	ICH	mw	3		77	AC	q		2		5	5	2	2
NKM	ICH	mw	3		77	AC	q		3		5	5	2	2
NKM	ICH	mw	3		77	AC	w		2		5	5	1	1
NKM	ICH	mw	3		77	AC	w		3		5	5	1	1
NKM	ICH	mw	3		77	AC	z		2		5	5	2	2
NKM	ICH	mw	3		77	AC	z		3		5	5	2	2
NKM	ICH	mw	3		44	TA					5	5	5	5
NKM	ICH	mw	3		44	TA	k				5	5	5	5
NKM	ICH	mw	3		44	TA	q				5	5	5	5
NKM	ICH	mw	3		44	TA	w				5	5	5	5
NKM	ICH	mw	3		44	TA	z				5	5	5	5
NKM	ICH	mw	3		99	RO					5	5	5	5
NKM	ICH	mw	3		99	RO	k				5	5	5	5
NKM	ICH	mw	3		99	RO	q				6	6	6	6
NKM	ICH	mw	3		99	RO	w				5	5	5	5
NKM	ICH	mw	3		99	RO	z				6	6	6	6
NKM	ICH	vk	1		01				2		5	5	2	1
NKM	ICH	vk	1		01				3		5	5	2	1
NKM	ICH	vk	1		01				4		5	5	3	3
NKM	ICH	vk	1		01				5		4	5	3	3
NKM	ICH	vk	1		01				6		1	4	1	1
NKM	ICH	vk	1		01				7		1	4	1	1
NKM	ICH	vk	1		01		k		2		5	5	2	1
NKM	ICH	vk	1		01		k		3		5	5	2	1
NKM	ICH	vk	1		01		k		4		5	5	3	3
NKM	ICH	vk	1		01		k		5		4	5	3	3
NKM	ICH	vk	1		01		k		6		1	4	1	1

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ICH	vk	1		01		k		7		1	4	1	1
NKM	ICH	vk	1		01		w		2		5	5	2	1
NKM	ICH	vk	1		01		w		3		5	5	2	1
NKM	ICH	vk	1		01		w		4		5	5	3	3
NKM	ICH	vk	1		01		w		5		4	5	3	3
NKM	ICH	vk	1		01		w		6		1	4	1	1
NKM	ICH	vk	1		01		w		7		1	4	1	1
NKM	ICH	vk	1		03	HF			2		5	5	4	4
NKM	ICH	vk	1		03	HF			3		5	5	4	4
NKM	ICH	vk	1		03	HF			4		5	5	5	5
NKM	ICH	vk	1		03	HF			5		5	5	5	5
NKM	ICH	vk	1		03	HF			6		2	4	3	3
NKM	ICH	vk	1		03	HF			7		1	3	2	2
NKM	ICH	vk	1		03	HF	k		2		5	5	4	4
NKM	ICH	vk	1		03	HF	k		3		5	5	4	4
NKM	ICH	vk	1		03	HF	k		4		5	5	5	5
NKM	ICH	vk	1		03	HF	k		5		5	5	5	5
NKM	ICH	vk	1		03	HF	k		6		2	4	3	3
NKM	ICH	vk	1		03	HF	k		7		1	3	2	2
NKM	ICH	vk	1		03	HF	q		2		5	5	5	5
NKM	ICH	vk	1		03	HF	q		3		5	5	5	5
NKM	ICH	vk	1		03	HF	q		4		5	5	5	5
NKM	ICH	vk	1		03	HF	q		5		5	5	5	5
NKM	ICH	vk	1		03	HF	q		6		3	4	3	4
NKM	ICH	vk	1		03	HF	q		7		2	4	2	3
NKM	ICH	vk	1		03	HF	w		2		5	5	4	4
NKM	ICH	vk	1		03	HF	w		3		5	5	4	4
NKM	ICH	vk	1		03	HF	w		4		5	5	5	5
NKM	ICH	vk	1		03	HF	w		5		5	5	5	5
NKM	ICH	vk	1		03	HF	w		6		2	4	3	3
NKM	ICH	vk	1		03	HF	w		7		1	3	2	2
NKM	ICH	vk	1		03	HF	z		2		5	5	5	5
NKM	ICH	vk	1		03	HF	z		3		5	5	5	5
NKM	ICH	vk	1		03	HF	z		4		5	5	5	5
NKM	ICH	vk	1		03	HF	z		5		5	5	5	5
NKM	ICH	vk	1		03	HF	z		6		3	4	3	4
NKM	ICH	vk	1		03	HF	z		7		2	4	2	3
NKM	ICH	vk	1		04	HO			2		5	5	2	2
NKM	ICH	vk	1		04	HO			3		5	5	2	2
NKM	ICH	vk	1		04	HO			4		5	5	3	4
NKM	ICH	vk	1		04	HO			5		4	5	3	4
NKM	ICH	vk	1		04	HO			6		2	4	1	2
NKM	ICH	vk	1		04	HO			7		2	4	1	2

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ICH	vk	1		04	HO	k		2		5	5	2	2
NKM	ICH	vk	1		04	HO	k		3		5	5	2	2
NKM	ICH	vk	1		04	HO	k		4		5	5	3	3
NKM	ICH	vk	1		04	HO	k		5		4	5	3	3
NKM	ICH	vk	1		04	HO	k		6		2	4	1	2
NKM	ICH	vk	1		04	HO	k		7		2	4	1	2
NKM	ICH	vk	1		04	HO	w		2		5	5	2	2
NKM	ICH	vk	1		04	HO	w		3		5	5	2	2
NKM	ICH	vk	1		04	HO	w		4		5	5	3	3
NKM	ICH	vk	1		04	HO	w		5		4	5	3	3
NKM	ICH	vk	1		04	HO	w		6		2	4	1	2
NKM	ICH	vk	1		04	HO	w		7		2	4	1	2
NKM	ICH	vk	1		05	RC			2		4	5	1	1
NKM	ICH	vk	1		05	RC			3		4	5	1	1
NKM	ICH	vk	1		05	RC			4		5	5	4	4
NKM	ICH	vk	1		05	RC			5		4	5	4	4
NKM	ICH	vk	1		05	RC			6		2	4	1	1
NKM	ICH	vk	1		05	RC			7		2	4	1	1
NKM	ICH	vk	1		06				2		5	5	4	3
NKM	ICH	vk	1		06				3		5	5	4	3
NKM	ICH	vk	1		06				4		5	5	5	5
NKM	ICH	vk	1		06				5		5	5	5	5
NKM	ICH	vk	1		06				6		3	4	2	2
NKM	ICH	vk	1		06				7		2	4	2	2
NKM	ICH	vk	1		77	AC			2		5	5	1	1
NKM	ICH	vk	1		77	AC			3		5	5	1	1
NKM	ICH	vk	1		77	AC	k		2		5	5	1	1
NKM	ICH	vk	1		77	AC	k		3		5	5	1	1
NKM	ICH	vk	1		77	AC	q		2		5	5	2	2
NKM	ICH	vk	1		77	AC	q		3		5	5	2	2
NKM	ICH	vk	1		77	AC	w		2		5	5	1	1
NKM	ICH	vk	1		77	AC	w		3		5	5	1	1
NKM	ICH	vk	1		77	AC	z		2		5	5	2	2
NKM	ICH	vk	1		77	AC	z		3		5	5	2	2
NKM	ICH	vk	1		44	TA					5	5	5	5
NKM	ICH	vk	1		44	TA	k				5	5	5	5
NKM	ICH	vk	1		44	TA	q				5	5	5	5
NKM	ICH	vk	1		44	TA	w				5	5	5	5
NKM	ICH	vk	1		44	TA	z				5	5	5	5
NKM	ICH	vk	1		99	RO					5	5	5	5
NKM	ICH	vk	1		99	RO	k				5	5	5	5
NKM	ICH	vk	1		99	RO	q				6	6	6	6
NKM	ICH	vk	1		99	RO	w				5	5	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ICH	vk	1		99	RO	z				6	6	6	6
NKM	ICH	wk	1		01	HO			2		5	5	2	1
NKM	ICH	wk	1		01	HO			3		5	5	2	1
NKM	ICH	wk	1		01	HO			4		5	5	3	3
NKM	ICH	wk	1		01	HO			5		4	5	3	3
NKM	ICH	wk	1		01	HO			6		1	4	2	1
NKM	ICH	wk	1		01	HO			7		1	4	2	1
NKM	ICH	wk	1		01	HO	k		2		5	5	2	1
NKM	ICH	wk	1		01	HO	k		3		5	5	2	1
NKM	ICH	wk	1		01	HO	k		4		5	5	3	3
NKM	ICH	wk	1		01	HO	k		5		4	5	3	3
NKM	ICH	wk	1		01	HO	k		6		1	4	2	1
NKM	ICH	wk	1		01	HO	k		7		1	4	2	1
NKM	ICH	wk	1		01	HO	q		2		5	5	3	2
NKM	ICH	wk	1		01	HO	q		3		5	5	3	2
NKM	ICH	wk	1		01	HO	q		4		5	5	4	4
NKM	ICH	wk	1		01	HO	q		5		4	5	4	4
NKM	ICH	wk	1		01	HO	q		6		2	4	3	2
NKM	ICH	wk	1		01	HO	q		7		2	4	3	2
NKM	ICH	wk	1		01	HO	w		2		5	5	2	2
NKM	ICH	wk	1		01	HO	w		3		5	5	2	2
NKM	ICH	wk	1		01	HO	w		4		5	5	3	4
NKM	ICH	wk	1		01	HO	w		5		4	5	3	4
NKM	ICH	wk	1		01	HO	w		6		1	4	2	2
NKM	ICH	wk	1		01	HO	w		7		1	4	2	2
NKM	ICH	wk	1		01	HO	z		2		5	5	3	2
NKM	ICH	wk	1		01	HO	z		3		5	5	3	2
NKM	ICH	wk	1		01	HO	z		4		5	5	4	4
NKM	ICH	wk	1		01	HO	z		5		4	5	4	4
NKM	ICH	wk	1		01	HO	z		6		2	4	3	2
NKM	ICH	wk	1		01	HO	z		7		2	4	3	2
NKM	ICH	wk	1		02	RL			2		5	5	5	5
NKM	ICH	wk	1		02	RL			3		5	5	5	5
NKM	ICH	wk	1		02	RL			4		5	5	5	5
NKM	ICH	wk	1		02	RL			5		5	5	5	5
NKM	ICH	wk	1		02	RL			6		5	5	5	5
NKM	ICH	wk	1		02	RL			7		5	5	5	5
NKM	ICH	wk	1		02	RL	k		2		5	5	5	5
NKM	ICH	wk	1		02	RL	k		3		5	5	5	5
NKM	ICH	wk	1		02	RL	k		4		5	5	5	5
NKM	ICH	wk	1		02	RL	k		5		5	5	5	5
NKM	ICH	wk	1		02	RL	k		6		5	5	5	5
NKM	ICH	wk	1		02	RL	k		7		5	5	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ICH	wk	1		02	RL	q		2		6	6	6	6
NKM	ICH	wk	1		02	RL	q		3		6	6	6	6
NKM	ICH	wk	1		02	RL	q		4		6	6	6	6
NKM	ICH	wk	1		02	RL	q		5		6	6	6	6
NKM	ICH	wk	1		02	RL	q		6		6	6	6	6
NKM	ICH	wk	1		02	RL	q		7		6	6	6	6
NKM	ICH	wk	1		02	RL	w		2		5	5	5	5
NKM	ICH	wk	1		02	RL	w		3		5	5	5	5
NKM	ICH	wk	1		02	RL	w		4		5	5	5	5
NKM	ICH	wk	1		02	RL	w		5		5	5	5	5
NKM	ICH	wk	1		02	RL	w		6		5	5	5	5
NKM	ICH	wk	1		02	RL	w		7		5	5	5	5
NKM	ICH	wk	1		02	RL	z		2		6	6	6	6
NKM	ICH	wk	1		02	RL	z		3		6	6	6	6
NKM	ICH	wk	1		02	RL	z		4		6	6	6	6
NKM	ICH	wk	1		02	RL	z		5		6	6	6	6
NKM	ICH	wk	1		02	RL	z		6		6	6	6	6
NKM	ICH	wk	1		02	RL	z		7		6	6	6	6
NKM	ICH	wk	1		04	HF			2		5	5	5	3
NKM	ICH	wk	1		04	HF			3		5	5	5	3
NKM	ICH	wk	1		04	HF			4		5	5	5	4
NKM	ICH	wk	1		04	HF			5		5	5	5	4
NKM	ICH	wk	1		04	HF			6		3	4	3	3
NKM	ICH	wk	1		04	HF			7		3	4	3	3
NKM	ICH	wk	1		04	HF	k		2		5	5	5	3
NKM	ICH	wk	1		04	HF	k		3		5	5	5	3
NKM	ICH	wk	1		04	HF	k		4		5	5	5	4
NKM	ICH	wk	1		04	HF	k		5		5	5	5	4
NKM	ICH	wk	1		04	HF	k		6		3	4	3	3
NKM	ICH	wk	1		04	HF	k		7		3	4	3	3
NKM	ICH	wk	1		04	HF	q		2		5	5	5	4
NKM	ICH	wk	1		04	HF	q		3		5	5	5	4
NKM	ICH	wk	1		04	HF	q		4		5	5	5	4
NKM	ICH	wk	1		04	HF	q		5		5	5	5	4
NKM	ICH	wk	1		04	HF	q		6		4	4	4	4
NKM	ICH	wk	1		04	HF	q		7		4	4	4	4
NKM	ICH	wk	1		04	HF	w		2		5	5	5	4
NKM	ICH	wk	1		04	HF	w		3		5	5	5	4
NKM	ICH	wk	1		04	HF	w		4		5	5	5	4
NKM	ICH	wk	1		04	HF	w		5		5	5	5	4
NKM	ICH	wk	1		04	HF	w		6		3	4	3	4
NKM	ICH	wk	1		04	HF	w		7		3	4	3	4
NKM	ICH	wk	1		04	HF	z		2		5	5	5	4

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ICH	wk	1		04	HF	z		3		5	5	5	4
NKM	ICH	wk	1		04	HF	z		4		5	5	5	5
NKM	ICH	wk	1		04	HF	z		5		5	5	5	5
NKM	ICH	wk	1		04	HF	z		6		4	4	4	4
NKM	ICH	wk	1		04	HF	z		7		4	4	4	4
NKM	ICH	wk	1		05	RD			2		5	5	1	1
NKM	ICH	wk	1		05	RD			3		5	5	1	1
NKM	ICH	wk	1		05	RD			4		5	5	4	4
NKM	ICH	wk	1		05	RD			5		5	5	3	3
NKM	ICH	wk	1		05	RD			6		3	4	1	2
NKM	ICH	wk	1		05	RD			7		2	4	1	2
NKM	ICH	wk	1		05	RD	k		2		5	5	1	1
NKM	ICH	wk	1		05	RD	k		3		5	5	1	1
NKM	ICH	wk	1		05	RD	k		4		5	5	4	4
NKM	ICH	wk	1		05	RD	k		5		5	5	3	3
NKM	ICH	wk	1		05	RD	k		6		3	4	1	1
NKM	ICH	wk	1		05	RD	k		7		2	4	1	1
NKM	ICH	wk	1		05	RD	w		2		5	5	1	1
NKM	ICH	wk	1		05	RD	w		3		5	5	1	1
NKM	ICH	wk	1		05	RD	w		4		5	5	4	4
NKM	ICH	wk	1		05	RD	w		5		5	5	3	3
NKM	ICH	wk	1		05	RD	w		6		3	4	1	2
NKM	ICH	wk	1		05	RD	w		7		2	4	1	2
NKM	ICH	wk	1		06	RH			2		5	5	1	1
NKM	ICH	wk	1		06	RH			3		5	5	1	1
NKM	ICH	wk	1		06	RH			4		5	5	4	4
NKM	ICH	wk	1		06	RH			5		5	5	3	3
NKM	ICH	wk	1		06	RH			6		3	4	1	2
NKM	ICH	wk	1		06	RH			7		2	4	1	1
NKM	ICH	wk	1		07	CD			2		5	5	4	4
NKM	ICH	wk	1		07	CD			3		5	5	4	4
NKM	ICH	wk	1		07	CD			4		5	5	5	5
NKM	ICH	wk	1		07	CD			5		5	5	5	5
NKM	ICH	wk	1		07	CD			6		4	5	4	4
NKM	ICH	wk	1		07	CD			7		4	5	4	4
NKM	ICH	wk	1		08	RC			2		5	5	2	2
NKM	ICH	wk	1		08	RC			3		5	5	2	2
NKM	ICH	wk	1		08	RC			4		5	5	4	4
NKM	ICH	wk	1		08	RC			5		5	5	3	3
NKM	ICH	wk	1		08	RC			6		3	4	2	2
NKM	ICH	wk	1		08	RC			7		2	4	2	2
NKM	ICH	wk	1		09	SS			2		5	5	4	4
NKM	ICH	wk	1		77	AC			2		5	5	1	2

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
NKM	ICH	wk	1		77	AC			3		5	5	1	2
NKM	ICH	wk	1		77	AC	k		2		5	5	1	2
NKM	ICH	wk	1		77	AC	k		3		5	5	1	2
NKM	ICH	wk	1		77	AC	q		2		5	5	2	3
NKM	ICH	wk	1		77	AC	q		3		5	5	2	3
NKM	ICH	wk	1		77	AC	w		2		5	5	1	2
NKM	ICH	wk	1		77	AC	w		3		5	5	1	2
NKM	ICH	wk	1		77	AC	z		2		5	5	2	3
NKM	ICH	wk	1		77	AC	z		3		5	5	2	3
NKM	ICH	wk	1		44	TA					5	5	5	5
NKM	ICH	wk	1		44	TA	k				5	5	5	5
NKM	ICH	wk	1		44	TA	q				5	5	5	5
NKM	ICH	wk	1		44	TA	w				5	5	5	5
NKM	ICH	wk	1		44	TA	z				5	5	5	5
NKM	ICH	wk	1		99	RO					5	5	5	5
NKM	ICH	wk	1		99	RO	k				5	5	5	5
NKM	ICH	wk	1		99	RO	q				6	6	6	6
NKM	ICH	wk	1		99	RO	w				5	5	5	5
NKM	ICH	wk	1		99	RO	z				6	6	6	6
CCM	ICH	dw			01a	RF			2		5	5	5	5
CCM	ICH	dw			01a	RF			3		5	5	5	5
CCM	ICH	dw			01a	RF			4		5	5	5	5
CCM	ICH	dw			01a	RF			5		5	5	5	5
CCM	ICH	dw			01a	RF			6		4	5	4	5
CCM	ICH	dw			01a	RF			7		4	5	4	5
CCM	ICH	dw			01a	RF	k		2		5	5	5	5
CCM	ICH	dw			01a	RF	k		3		5	5	5	5
CCM	ICH	dw			01a	RF	k		4		5	5	5	5
CCM	ICH	dw			01a	RF	k		5		5	5	5	5
CCM	ICH	dw			01a	RF	k		6		4	5	4	5
CCM	ICH	dw			01a	RF	k		7		4	5	4	5
CCM	ICH	dw			01a	RF	q		2		5	5	5	5
CCM	ICH	dw			01a	RF	q		3		5	5	5	5
CCM	ICH	dw			01a	RF	q		4		5	5	5	5
CCM	ICH	dw			01a	RF	q		5		5	5	5	5
CCM	ICH	dw			01a	RF	q		6		5	5	5	5
CCM	ICH	dw			01a	RF	q		7		5	5	5	5
CCM	ICH	dw			01a	RF	w		2		5	5	5	5
CCM	ICH	dw			01a	RF	w		3		5	5	5	5
CCM	ICH	dw			01a	RF	w		4		5	5	5	5
CCM	ICH	dw			01a	RF	w		5		5	5	5	5
CCM	ICH	dw			01a	RF	w		6		4	5	4	5
CCM	ICH	dw			01a	RF	w		7		4	5	4	5

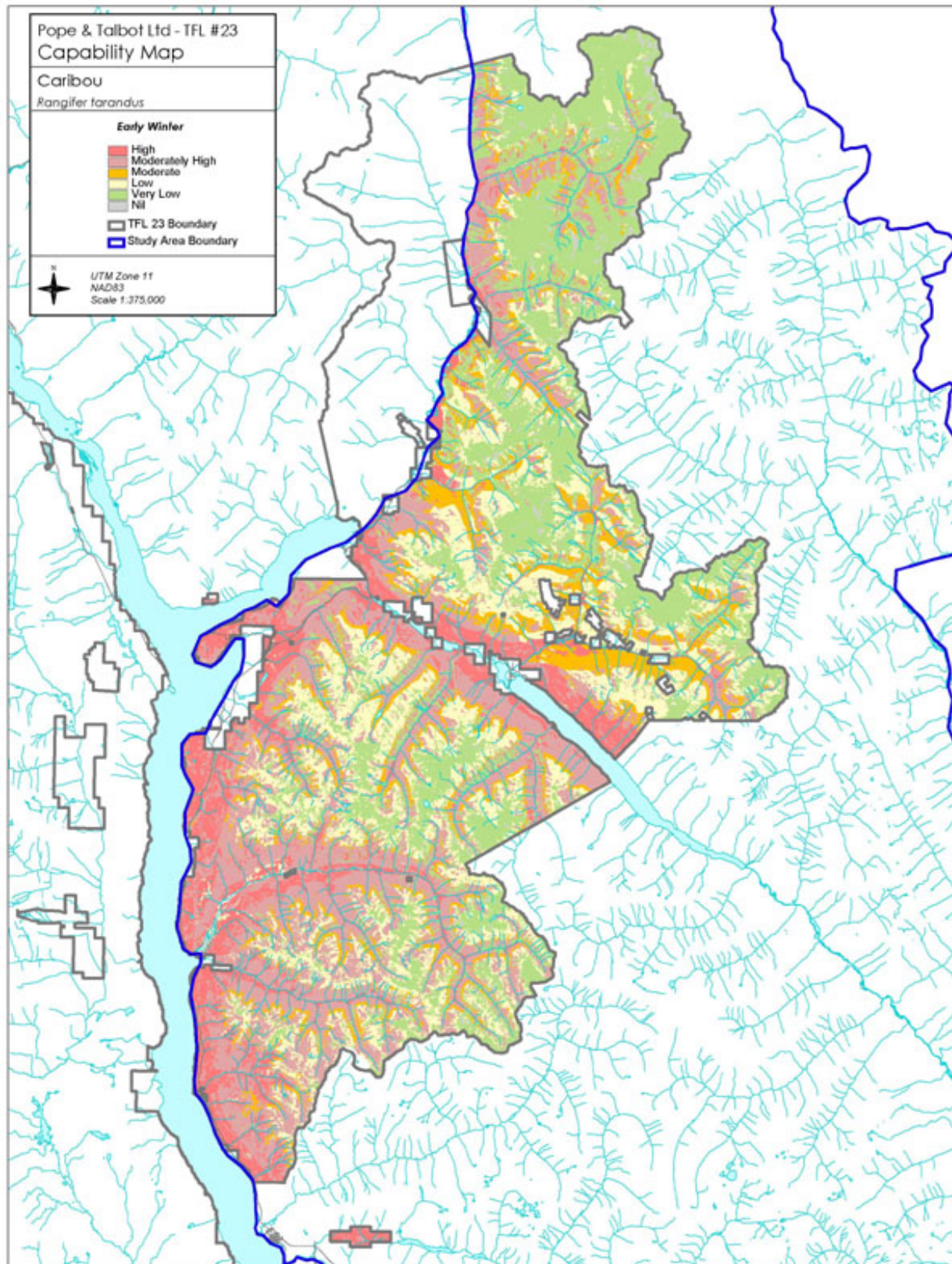


ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ICH	dw			01a	RF	z		2		5	5	5	5
CCM	ICH	dw			01a	RF	z		3		5	5	5	5
CCM	ICH	dw			01a	RF	z		4		5	5	5	5
CCM	ICH	dw			01a	RF	z		5		5	5	5	5
CCM	ICH	dw			01a	RF	z		6		5	5	5	5
CCM	ICH	dw			01a	RF	z		7		5	5	5	5
CCM	ICH	dw			01b	RF			2		5	5	5	5
CCM	ICH	dw			01b	RF			3		5	5	5	5
CCM	ICH	dw			01b	RF			4		5	5	5	5
CCM	ICH	dw			01b	RF			5		5	5	5	5
CCM	ICH	dw			01b	RF			6		4	5	4	5
CCM	ICH	dw			01b	RF			7		4	5	4	5
CCM	ICH	dw			01b	RF	k		2		5	5	5	5
CCM	ICH	dw			01b	RF	k		3		5	5	5	5
CCM	ICH	dw			01b	RF	k		4		5	5	5	5
CCM	ICH	dw			01b	RF	k		5		5	5	5	5
CCM	ICH	dw			01b	RF	k		6		4	5	4	5
CCM	ICH	dw			01b	RF	k		7		4	5	4	5
CCM	ICH	dw			01b	RF	q		2		5	5	5	5
CCM	ICH	dw			01b	RF	q		3		5	5	5	5
CCM	ICH	dw			01b	RF	q		4		5	5	5	5
CCM	ICH	dw			01b	RF	q		5		5	5	5	5
CCM	ICH	dw			01b	RF	q		6		5	5	5	5
CCM	ICH	dw			01b	RF	q		7		5	5	5	5
CCM	ICH	dw			01b	RF	w		2		5	5	5	5
CCM	ICH	dw			01b	RF	w		3		5	5	5	5
CCM	ICH	dw			01b	RF	w		4		5	5	5	5
CCM	ICH	dw			01b	RF	w		5		5	5	5	5
CCM	ICH	dw			01b	RF	w		6		4	5	4	5
CCM	ICH	dw			01b	RF	w		7		4	5	4	5
CCM	ICH	dw			01b	RF	z		2		5	5	5	5
CCM	ICH	dw			01b	RF	z		3		5	5	5	5
CCM	ICH	dw			01b	RF	z		4		5	5	5	5
CCM	ICH	dw			01b	RF	z		5		5	5	5	5
CCM	ICH	dw			01b	RF	z		6		5	5	5	5
CCM	ICH	dw			01b	RF	z		7		5	5	5	5
CCM	ICH	dw			02	DO			2		5	5	5	5
CCM	ICH	dw			02	DO			3		5	5	5	5
CCM	ICH	dw			02	DO			4		5	5	5	5
CCM	ICH	dw			02	DO			5		5	5	5	5
CCM	ICH	dw			02	DO			6		5	5	5	5
CCM	ICH	dw			02	DO			7		5	5	5	5
CCM	ICH	dw			02	DO	k		2		5	5	5	5

ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ICH	dw			02	DO	k		3		5	5	5	5
CCM	ICH	dw			02	DO	k		4		5	5	5	5
CCM	ICH	dw			02	DO	k		5		5	5	5	5
CCM	ICH	dw			02	DO	k		6		5	5	5	5
CCM	ICH	dw			02	DO	k		7		5	5	5	5
CCM	ICH	dw			02	DO	q		2		5	5	5	5
CCM	ICH	dw			02	DO	q		3		5	5	5	5
CCM	ICH	dw			02	DO	q		4		5	5	5	5
CCM	ICH	dw			02	DO	q		5		5	5	5	5
CCM	ICH	dw			02	DO	q		6		5	5	5	5
CCM	ICH	dw			02	DO	q		7		5	5	5	5
CCM	ICH	dw			02	DO	w		2		5	5	5	5
CCM	ICH	dw			02	DO	w		3		5	5	5	5
CCM	ICH	dw			02	DO	w		4		5	5	5	5
CCM	ICH	dw			02	DO	w		5		5	5	5	5
CCM	ICH	dw			02	DO	w		6		5	5	5	5
CCM	ICH	dw			02	DO	w		7		5	5	5	5
CCM	ICH	dw			02	DO	z		2		5	5	5	5
CCM	ICH	dw			02	DO	z		3		5	5	5	5
CCM	ICH	dw			02	DO	z		4		5	5	5	5
CCM	ICH	dw			02	DO	z		5		5	5	5	5
CCM	ICH	dw			02	DO	z		6		5	5	5	5
CCM	ICH	dw			02	DO	z		7		5	5	5	5
CCM	ICH	dw			03	HD			2		5	5	5	5
CCM	ICH	dw			03	HD			3		5	5	5	5
CCM	ICH	dw			03	HD			4		5	5	5	5
CCM	ICH	dw			03	HD			5		5	5	5	5
CCM	ICH	dw			03	HD			6		4	5	4	5
CCM	ICH	dw			03	HD			7		4	5	4	5
CCM	ICH	dw			04				2		5	5	3	3
CCM	ICH	dw			04				3		5	5	5	4
CCM	ICH	dw			04				4		5	5	5	5
CCM	ICH	dw			04				5		5	5	5	5
CCM	ICH	dw			04				6		4	5	3	3
CCM	ICH	dw			04				7		4	5	3	3
CCM	ICH	dw			77	AC			2		5	5	2	3
CCM	ICH	dw			77	AC			3		5	5	2	3
CCM	ICH	dw			77	AC	k		2		5	5	2	3
CCM	ICH	dw			77	AC	k		3		5	5	2	3
CCM	ICH	dw			77	AC	q		2		5	5	3	4
CCM	ICH	dw			77	AC	q		3		5	5	3	4
CCM	ICH	dw			77	AC	w		2		5	5	2	3
CCM	ICH	dw			77	AC	w		3		5	5	2	3

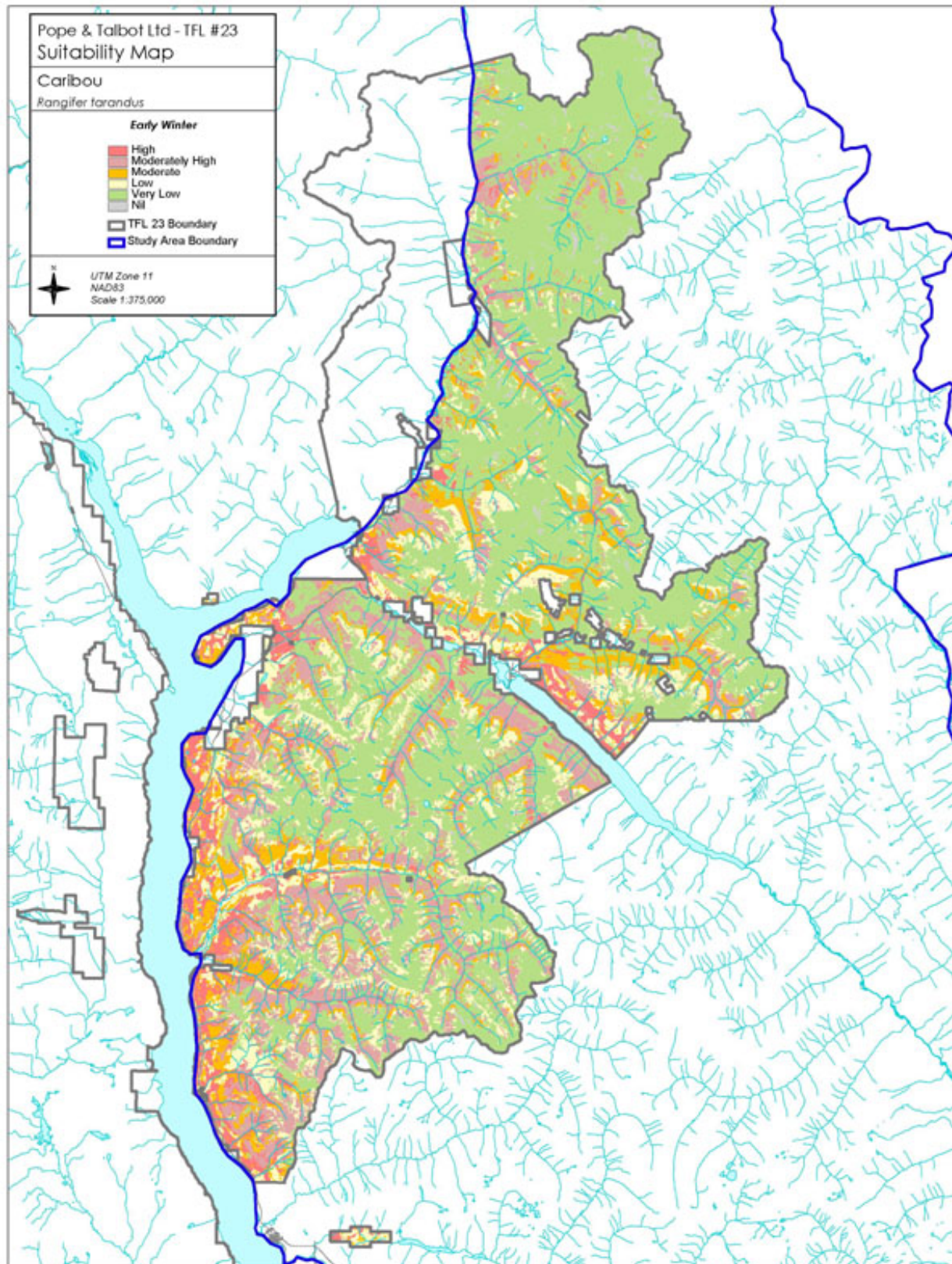
ECO_SEC	BCG_ZONE	BCG_Subzone	BCG_Var	BCG_Phase	SITE_S	SITE_MC_S	SITE_MA	SITE_MB	STRCT_S	STRCT_M	M RATA FD_WE	M RATA FD_WL	M RATA FD_P	M RATA LI_S/F
CCM	ICH	dw			77	AC	z		2		5	5	3	4
CCM	ICH	dw			77	AC	z		3		5	5	3	4
CCM	ICH	dw			44	TA					5	5	5	5
CCM	ICH	dw			44	TA	k				5	5	5	5
CCM	ICH	dw			44	TA	q				5	5	5	5
CCM	ICH	dw			44	TA	w				5	5	5	5
CCM	ICH	dw			44	TA	z				5	5	5	5
CCM	ICH	dw			99	RO					5	5	5	5
CCM	ICH	dw			99	RO	k				5	5	5	5
CCM	ICH	dw			99	RO	q				6	6	6	6
CCM	ICH	dw			99	RO	w				5	5	5	5
CCM	ICH	dw			99	RO	z				6	6	6	6

## APPENDIX C



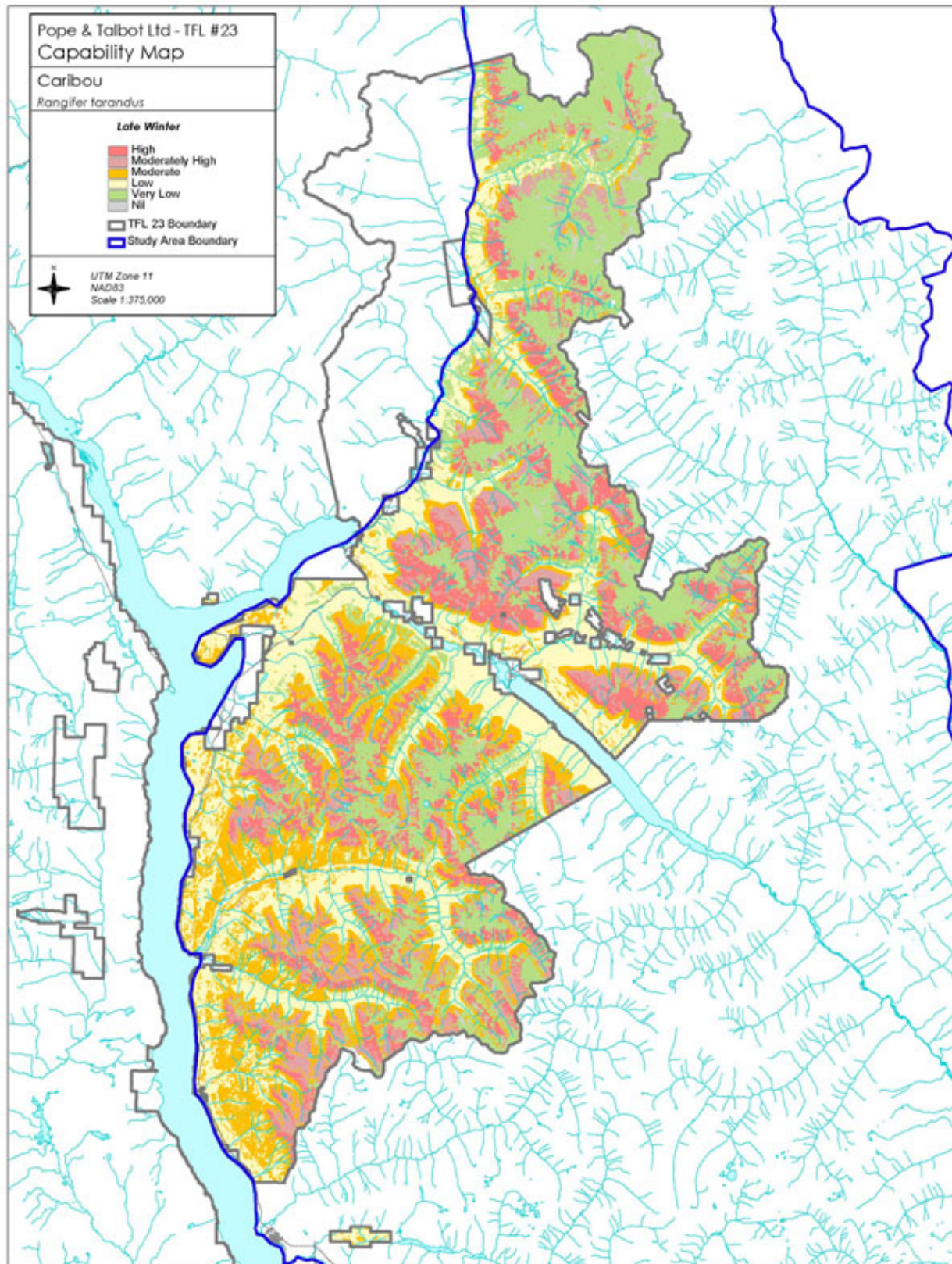


## APPENDIX D



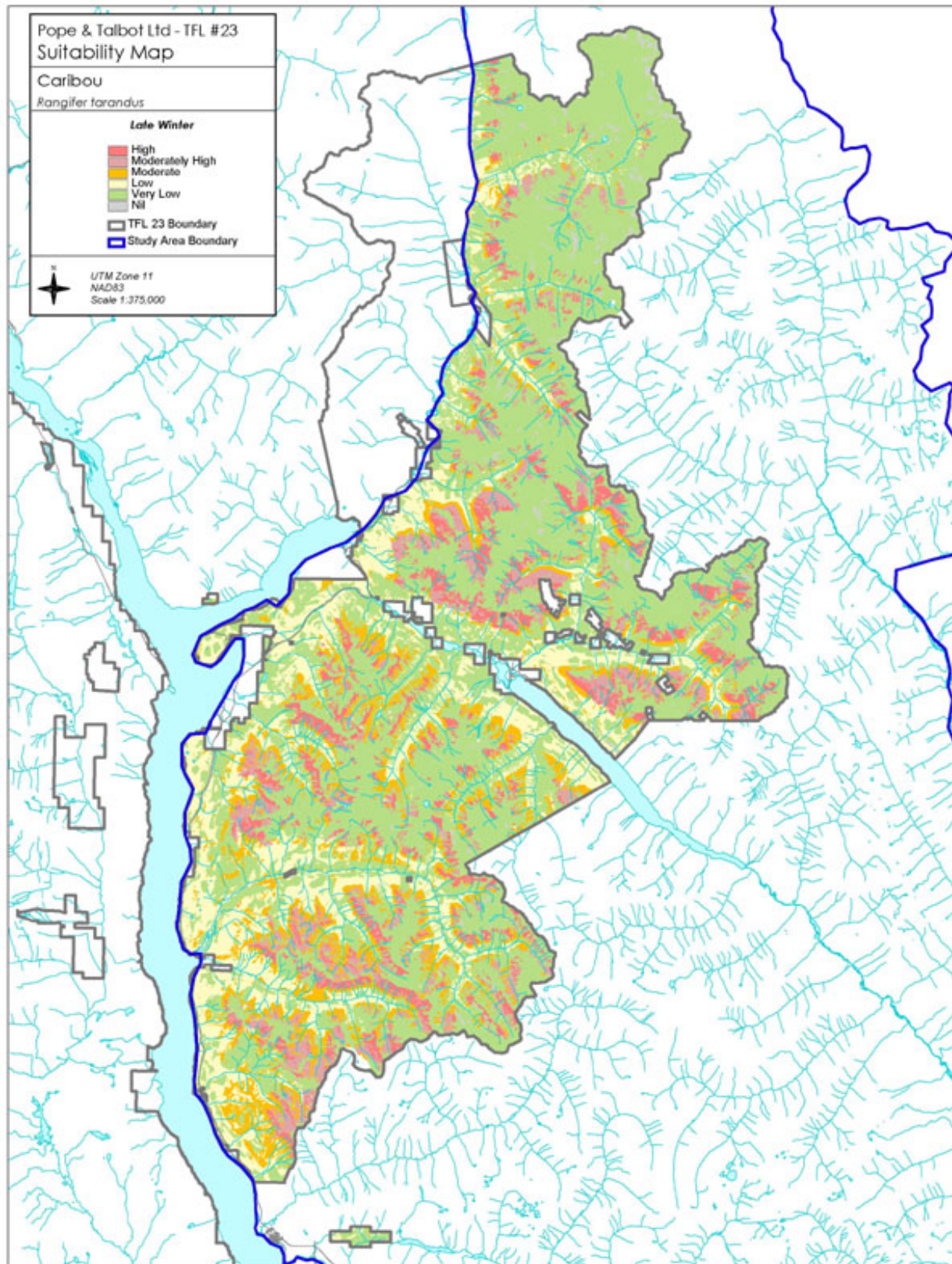


## APPENDIX E



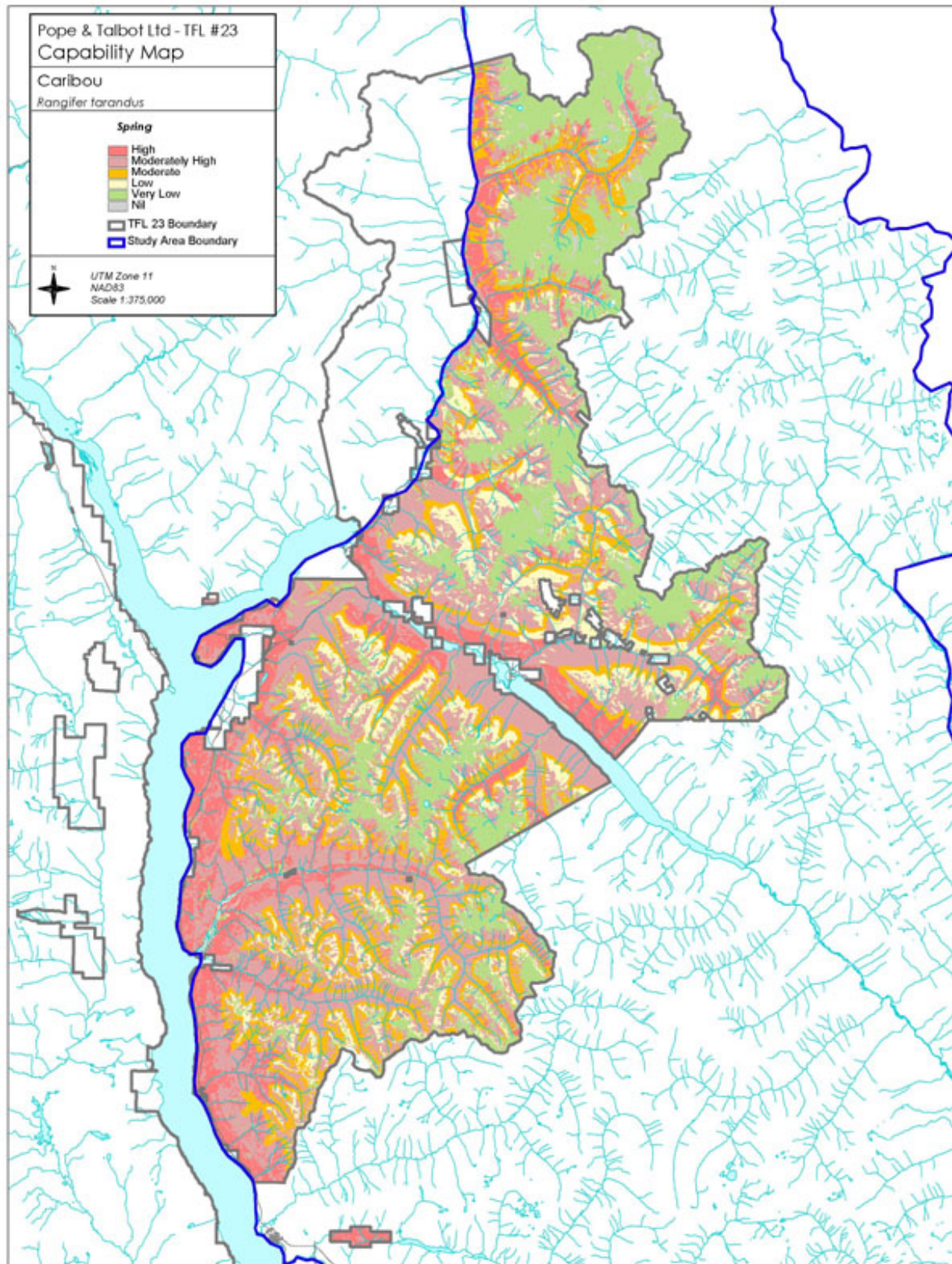


## APPENDIX F



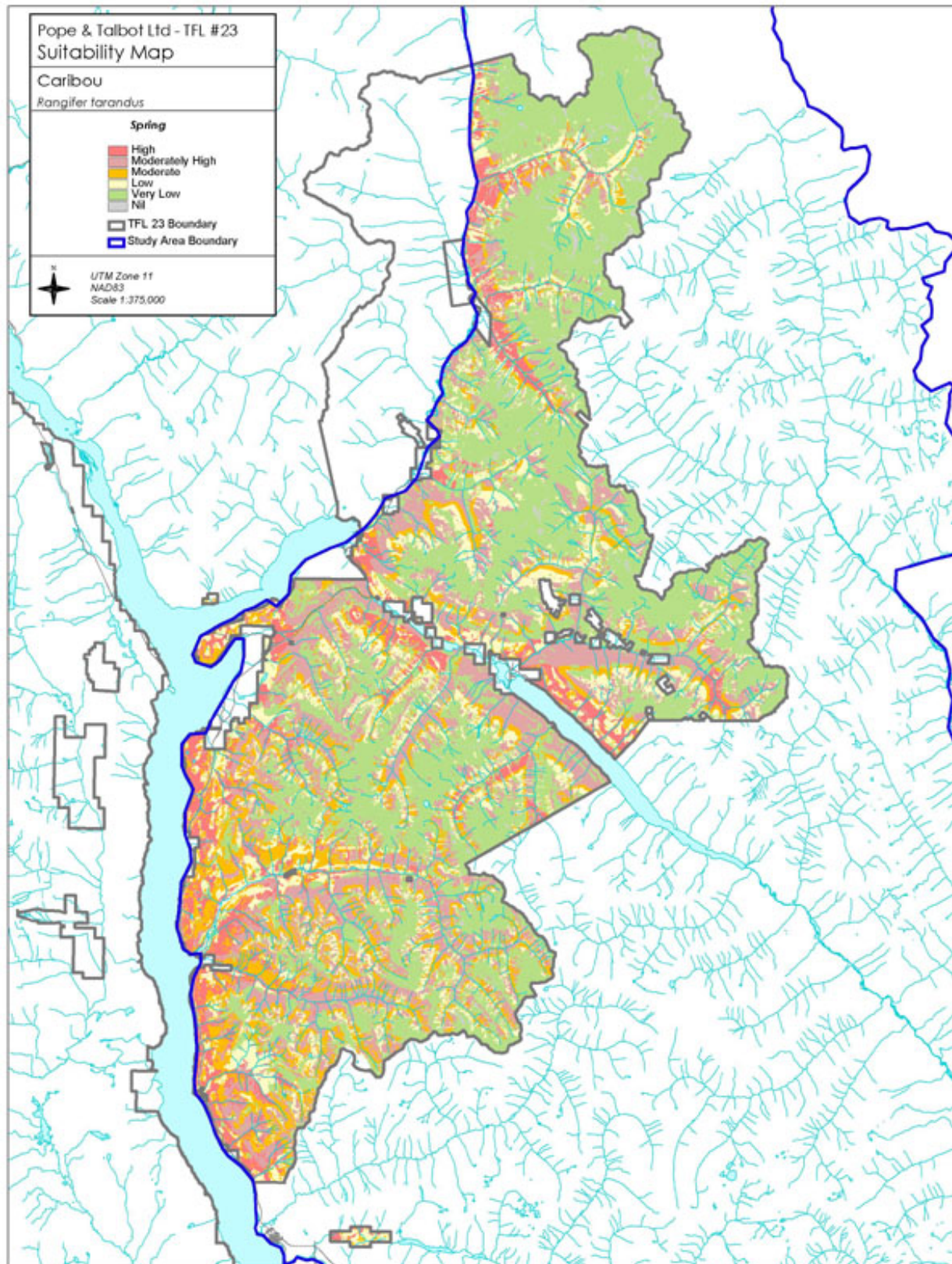


## APPENDIX G



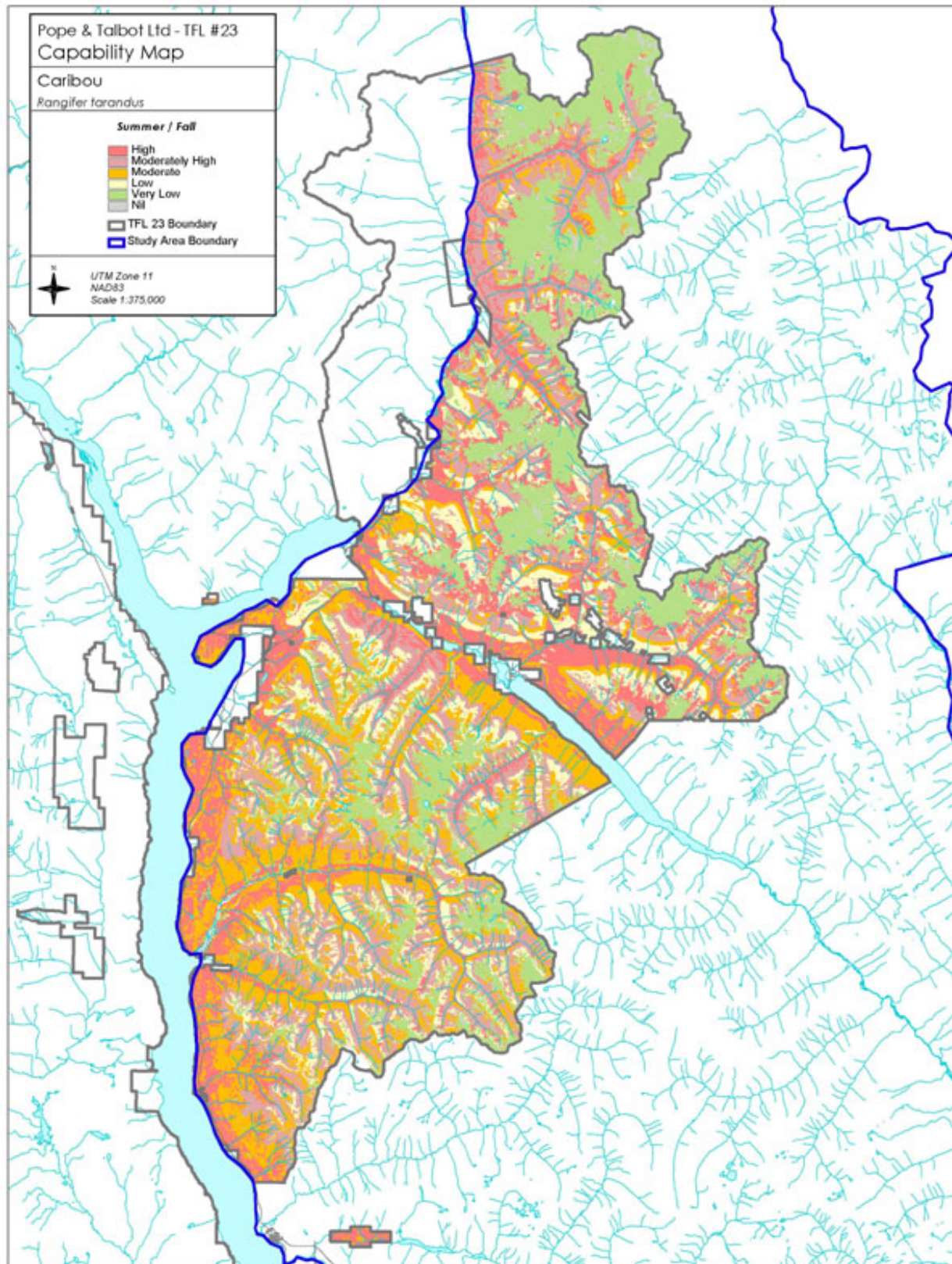


## APPENDIX H





## APPENDIX I





## APPENDIX J

