**Appendix 1: Timber Supply Analysis** 

## FMU E8

# **TIMBER SUPPLY ANALYSIS**

# **Timber Supply Analysis**



Forest Management Branch Resource Analysis Section July 1, 2008

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#### **Timber Supply Analysis**

This document contains a description of the methods used in determining the AAC for the E8 Forest Management Unit (FMU). The purpose of this Timber Supply Analysis (TSA) is to determine the wood supply for the E8 FMU as a standalone FMU by evaluating the wood supply under a variety of operating conditions. A number of scenarios were evaluated in this TSA before settling on the Preferred Forest Management Strategy (PFMS). This TSA also carried out the evaluation of the impact of various scenarios under different MPB scenarios as described in the "Planning Mountain Pine Beetle Response Operations Interpretive Bulletin".

The main drivers or items of highest priority in conducting this TSA were the consideration of caribou intactness areas and consideration for reducing the amount of high risk Mountain Pine Beetle (MPB) susceptible stands across the FMU.

Initially this TSA had identified two supplies of conifer sources from the E8 FMU, a "normal" set of stands that are typically included in a TSA and a set of stands that were classified as "small wood" stands that under normal conditions may be excluded from the timber harvesting or net landbase. The original intent had been to model a timber flow for the "normal" conifer landbase and a timber flow for the small wood conifer landbase. In the final stages of developing the PFMS the small wood conifer stands were included in the analysis to forecast a single conifer flow from the FMU. This analysis also forecasts a small supply of sustainable deciduous timber available from the FMU.

The PFMS developed for this FMU produced an accelerated harvest rate for the first 20 years of the harvest sequence to attempt to significantly reduce the amount of highly susceptible stands to MPB attack, while protecting the integrity of high value caribou intactness areas within the FMU.

The Annual Allowable Cuts (AAC) developed for the PFMS are shown in Table 1-1. All AACs are net of cull at a 13+/7 utilization level.

Table 1-1: E8 PFMS AACs

E8 PFMS AACs

	AAC Flo	w Period
	Year 1 to 20	Year 21 to 70
AAC Component	Harvest Volume (m <sup>3</sup> )	Harvest Volume (m <sup>3</sup> )
Primary Conifer	450,951	193,871
Secondary Conifer	1,765	
Total Conifer	452,716	
Primary Deciduous	7,948	7,948
Secondary Deciduous	5,673	
Total Deciduous	13,621	

## Timber Supply Model

Timber supply modeling was completed using Remsoft's Spatial Planning System (RSPS) suite of analysis tools. Version 2007.4 was used for the majority of the aspatial and spatial modeling, while the final outputs and patch metrics were generated from version 2007.10. In this TSA, aspatial modeling is conducted as an optimization formulation where a target objective (volume) is maximized. Constraints based on management criteria are placed on the model to meet management goals. Spatial modeling is conducted through a simulation process where a harvest sequence is developed through patch targets, adjacency and proximity constraints, and hands on judgement from field staff in operationalizing a harvest sequence.

RSPS has been in use in Alberta since the early 1990's. Due to its transparent nature RSPS has been a preferred tool for conducting TSAs in Alberta. The model has continued to evolve over time as more demands have been placed on the ability of the model to deal with an ever increasing complexity of model formulations. With the increase in desktop computational abilities, there has been an increased demand to have more detailed inputs, outputs and criteria in timber supply models.

The Linear Programming (LP) matrix generated under optimization from RSPS was solved using MOSEK version 4.0.0.31. MOSEK, an interior point LP solver, has been the preferred LP solver for Alberta Sustainable Resource Development for nearly a decade, due to its ability to handle extremely large LP problems and the speed and efficiency at which it works.

## Input Data

Input data for this TSA comes from a number of sources. Inventory data and the associated net landbase used in this analysis originates from Weyerhaeuser Grande Prairie's AVI data for E8. The landbase netdown process is detailed in the document entitled "FMU E8, Timber Supply Analysis, Landbase Determination" dated May 15, 2008. Growth and yield data and relationship development is contained in the document titled, "Yield curve documentation for the E8 FMU, 13/07 merchantability, February 28, 2007".

## Long Run Sustained Yield Average

The Long Run Sustained Yield Average (LRSYA) can be defined as a measure of forest productivity. LRSYA is an estimate of the maximum non-declining volume that could be harvested at the age when mean annual increment is at a maximum, also known as peak MAI.

The gross conifer LRSYA from the conifer landbase is  $308,344 \text{ m}^3$ , while the gross deciduous LRSYA from the deciduous landbase is  $10,611 \text{ m}^3$ .

Table 4-1 shows peak MAI ages and the associated LRSYAs with each yield strata based on the net landbase area of each yield strata. This table also shows minimum and maximum harvest ages within 10% of peak MAI.

Table 4-1: LRSYA Estimates and Peak MAI Ages

Landbase	Yield Curve	Min Age within	Peak MAI	Max Age within	Peak MAI Yield	Area (ha)	Con MAI at	Dec MAI at	Con LRSYA	Dec LRSYA
		10% of Peak MAI		10% of Peak MAI	Component		Specified	Specified		
							Peak MAI	Peak MAI		
Conifer	CPIABMG	60	90	125	Conifer	8,958.66	1.8684	0.0000	16,738	0
	CPIABF	60	85	125	Conifer	14,684.51	1.6557	0.0000	24,314	0
	CPICDMG	60	90	125	Conifer	27,749.54	2.5304	0.0000	70,218	0
	CPICDF	60	85	125	Conifer	50,684.67	2.3162	0.0000	117,397	0
	CSw	95	120	145	Conifer	14,931.35	1.8470	0.0000	27,578	0
	CSb	60	85	125	Conifer	9,192.03	1.1814	0.0000	10,860	0
	CDMx	80	100	120	Conifer	2,671.84	2.2472	0.7944	6,004	2,123
	DCMx	85	100	125	Conifer	2,846.93	1.7719	1.2336	5,044	3,512
	Comp	65	90	125	Conifer	7,211.26	2.0278	0.0000	14,623	0
Smallwood Conifer	CPIABMG	60	85	125	Conifer	4,445.68	1.4652	0.0000	6,514	0
	CSw	90	120	145	Conifer	8,076.14	1.1211	0.0000	9,054	0
Deciduous	Daw	85	105	130	Deciduous	5,696.53	0.4204	1.8627	2,395	10,611
							Conifer Landl	base	308,344	5,635
							Deciduous La	andbase	2,395	10,611
							Total	·	310,739	16,246

All MAIs and LRSYAs expressed in m<sup>3</sup>. All MAIs and LRSYAs are gross (prior to cull deduction).

## Preferred Forest Management Scenario Decision Making Process

The process used in selecting the PFMS was one that was developed over several iterations of the net landbase development involving the examination and forecasting around the two key constraints, caribou and MPB, used in this TSA. The initial forecast served the purpose of establishing an unconstrained baseline. The model runs that followed were intended to explore the realm of possibilities under various constraints. The following is a broad list of the exploratory runs that were examined before settling on the PFMS.

- Unconstrained baseline run;
- No access to any caribou intactness areas;
- 75% reduction of Rank 1 & Rank 2 MPB stands in the first 20 years was investigated without any caribou constraint;
- A variety of runs assessing the impact of partially or fully limiting access to the high, medium and low caribou intactness areas to varying degrees, while applying a piece size constraint and varying targets of MPB susceptible stand reductions;
- MPB disaster planning, assuming massive pine mortality after ten years was forecasted;
- Exploration of the small wood conifer landbase as a separate and discrete wood supply.

Each run or series of runs was used to evaluate the impact of a selected strategy and further refine whether outputs were acceptable or whether constraints required further tuning. The PFMS criteria that were selected achieved an acceptable balance of environmental, economic and social values (on this landscape under the current management paradigm). The PFMS model objectives and constraints were a reflection of that value balance. The PFMS selected focused on reducing the amount of highly susceptible pine stands to MPB attack while maintaining the integrity of the caribou high value intactness areas. The aspatial formulation achieved a 55% reduction of operable Rank 1 and Rank 2 pine stands, with the final Spatial Harvest Sequence (SHS) achieving approximately a 48% reduction. The criteria selected for the PFMS are detailed in the following section.

## Preferred Forest Management Scenario

Once an acceptable balance of values had been struck the criteria for the PFMS were able to be finalized and run through the timber supply model to generate the AAC and output the future forest conditions for confirmation. The following sub-sections break the modeling down into its aspatial and spatial components.

#### **Aspatial Modeling**

The intent of the aspatial modelling is to establish an optimal solution for the given objective and constraints. The aspatial solution is then passed into the spatial simulation model to apply the spatial constraints. The criteria for the aspatial modeling are listed and discussed in the following sub sections, and summarized in Table 6-3 at the end of section 6.1.

#### **Utilization Level**

Both conifer and deciduous species use a 13/7 utilization at a 15 cm. stump height.

#### Harvest Actions and Minimum Harvest Ages

Two actions were utilized in the PFMS, conifer harvest and deciduous harvest. Table 6-1 lists the minimum harvest ages for each yield component (profile or landbase) and its associated yield strata. As the PFMS is striving to reduce the amount of pine stands that are highly susceptible to MPB attack, the minimum harvest ages for the higher risk stands have been reduced to what would be considered a minimum economically feasible age. All non-risk strata have had their minimum harvest ages set at peak Mean Annual Increment (MAI).

Table 6-1: Minimum Harvest Ages

Profile / Landbase	Yield Strata	MPB Pine Stand Ranking	Minimum Harvest Age
Conifer	C-PI-AB-F	1 or 2	70
Rank 1 & 2 Stands	C-PI-AB-MG	1 or 2	70
	C-PI-CD-F	1 or 2	70
	C-PI-CD-MG	1 or 2	70
	C-Sw-All-All	1 or 2	75
	C-Sb-All-All	1 or 2	75
	CD-Mix-All-All	1 or 2	75
	DC-Mix-All-All	1 or 2	75
	C-Comp-All-All	1 or 2	70
	C-PI-AB-MG - Smallwood	1 or 2	70
	C-Sw-All-All - Smallwood	1 or 2	75
Conifer	C-PI-AB-F	0 or 3	85
Rank 0 & 3 Stands	C-PI-AB-MG	0 or 3	90
	C-PI-CD-F	0 or 3	85
	C-PI-CD-MG	0 or 3	90

	•	•	
	C-Sw-All-All	0 or 3	120
	C-Sb-All-All	0 or 3	85
			Continued
	CD-Mix-All-All	0 or 3	100
	DC-Mix-All-All	0 or 3	100
	C-Comp-All-All	0 or 3	90
	C-PI-AB-MG - Smallwood	0 or 3	85
	C-Sw-All-All - Smallwood	0 or 3	120
Deciduous Rank 1 & 2 Stands	D-Aw-All-All	1 or 2	75
Deciduous Rank 0 & 3 Stands	D-Aw-All-All	0 or 3	105

#### Cull

Conifer cull has been set at 3%, while deciduous cull has been set at 9%.

#### <u>Lifespan</u>

The lifespan selected for all yield strata for this analysis was 325 years of age.

#### Transitions and Regeneration Lag

This analysis assumes a "same to same" transition where all stands that are harvested, or die at the end of their lifespan regenerate back to the same yield strata at an age of 0 after their termination. Stands that are harvested are assumed to have a two year regeneration lag to account for the time elapsed for site preparation and planting or seeding. No regeneration lag is assumed for stands that succumb to natural mortality at the end of their lifespan. The Pine Stand Ranking is reset to 0 for all stands that are harvested or that die at the end of their lifespan.

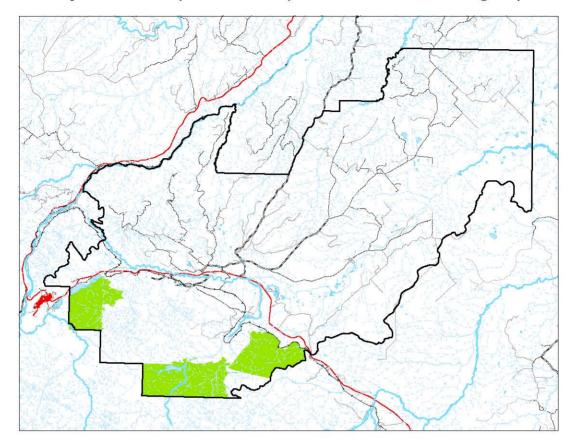
#### Access Constraints

Access to high value caribou intactness areas has been not been allowed for the first 20 years of the TSA with the exception of access to stands (within the high vale caribou intactness areas) that have a Stand Susceptibility Index with Climate Factor greater than or equal to 50 after the first 10 years of the TSA.

#### Use of Locks to Constrain Access to Specific Areas

The RSPS \_Lock function was used to lock out access to a set of stands in the Huckleberry and Muskeg compartments for the first 5 year period. These stands were locked out primarily due to lack of current access. Any first period pre-blocks identified in the landbase netdown process that fell into these lock areas, were removed as pre-

blocks before the TSA was ran. Map 6-1 shows the area that first period locks were applied to.



Map 0-1: Portions of E8 Locked Out from First Harvest Period Eligibility

#### Inclusion of Predefined Cutblocks into Model

The aspatial modeling utilized a LP Schedule to force the model to harvest the selected pre-blocks in the periods they had been identified for harvest. In optimization modeling it is preferred to incorporate as many known actions into the aspatial model as possible. This ensures a sustainable harvest level is set based on the known harvest activities that will take place on the landscape over approximately the next decade. The LP Schedule was generated based on the pre-blocks identified through the landbase netdown process and adjustments made through section 6.1.7.

#### Timber Supply Optimization and Constraints

As this analysis has identified two separate and discrete landbases, the optimization selected for the PFMS was to maximize the conifer volume from the conifer landbase plus the deciduous volume from the deciduous landbase.

The conifer volume has been constrained to two even flow periods over a 200 year planning horizon, while the deciduous volume has been constrained to a single even flow

period over the entire planning horizon. The first conifer even flow period is for the first 20 years focussing on reducing the amount of Rank 1 and Rank 2 pine stands. The second conifer even flow period is from year 21 to 200. The second conifer even flow period was constrained so that the conifer volume from the conifer landbase could drop to no less than 186,000 m³/year (approximately 90% of the current 13/7 AAC).

Both conifer and deciduous operable growing stocks have been limited to being non-declining from year 151 to year 200. Operable growing stocks have been defined as the amount of growing stock at or above the minimum harvestable age for Rank 0 or Rank 3 stands as per Table 6-1 in section 6.1.2.

The amount of operable Rank1 and Rank 2 stands has been forced by a constraint to be reduced by 55% after the first 20 years of harvesting. Operable Rank 1 and Rank 2 stands have been defined as stands that are at or above the minimum harvestable age for Rank 1 or Rank 2 stands as per Table 6-1 in section 6.1.2.

Piece size constraints have been applied in the PFMS to ensure that average size of timber coming into the facility will be operationally and economically feasible. The first 10 years of the PFMS has been constrained so that the average piece size is less than or equal to 6.0 trees/m<sup>3</sup>. The remaining 190 years of the PFMS planning horizon has been constrained so that the average piece size is less than or equal to 5.5 trees/m<sup>3</sup>.

#### **Aspatial Output**

The resultant primary AACs generated through the aspatial analysis that were passed to the spatial analysis are listed in Table 6-2.

 E8 Aspatial PFMS Primary AACs

 AAC Flow Period

 Year 1 to 20
 Year 21 to 70

 AAC Component
 Harvest Volume (m³)
 Harvest Volume (m³)

 Primary Conifer
 508,333
 253,546

 Primary Deciduous
 8,818
 8,818

*Table 6-2: Aspatial Output – Primary AACs* 

#### A Note on In-Stand Retention

As in-stand retention counts as part of the AAC it has not been directly modelled in the TSA, however it is important to remember that for this analysis 4% of the AAC must be left standing on the landscape. The criteria and protocols for the distribution and arrangement of that 4% is not discussed in this document. In-stand retention has been shown in Table 6-3 as a reminder that the harvest volumes that are delivered to the mill will be 4% less than the total AAC represented under this analysis.

Table 6-3: Aspatial Model Criteria

Lifespan	Species Profile or Landb		Age	
	Conifer	Species - Density - TPR) C-PI-AB-F	325	i
	Conner	C-PI-AB-NG	325	
		C-PI-CD-F	325	
		C-PI-CD-MG	325	
		C-Sw-All-All	325	
		C-Sb-All-All	325	ì
		CD-Mix-All-All	325	
		DC-Mix-All-All	325	1
		C-Comp-All-All	325	ł
		C-PI-AB-MG - Smallwood	325	}
		C-Sw-All-All - Smallwood	325	1
	Deciduous	D-Aw-All-All		l
No. 1 1			325	
Yields	Profile / Landbase	Utilization Level	Regen Lag (years)	
	Conifer	13/7	2	
	Deciduous	13/7	0	
Cull	Profile / Landbase	Cull Percent		
	Conifer	3%		
	Deciduous	9%		
In Stand retention	All Yield Components	4%		
Actions	Profile / Landbase	Yield Strata	MPB Pine Stand Ranking	Minimum Harvest Age
	Conifer	C-PI-AB-F	1 or 2	70
	Rank 1 & 2 Stands	C-PI-AB-MG	1 or 2	70
		C-PI-CD-F	1 or 2	70
		C-PI-CD-MG	1 or 2	70
		C-Sw-All-All	1 or 2	75
		C-Sb-All-All	1 or 2	75
		CD-Mix-All-All	1 or 2	75
		DC-Mix-All-All	1 or 2	75
		C-Comp-All-All	1 or 2	70
		C-PI-AB-MG - Smallwood	1 or 2	70
		C-Sw-All-All - Smallwood	1 or 2	75
	Conifer	C-PI-AB-F	0 or 3	85
	Rank 0 & 3 Stands	C-PI-AB-MG	0 or 3	90
		C-PI-CD-F	0 or 3	85
		C-PI-CD-MG	0 or 3	90
		C-Sw-All-All	0 or 3	120
		C-Sb-All-All	0 or 3	85
		CD-Mix-All-All	0 or 3	100
		DC-Mix-All-All	0 or 3	100
		C-Comp-All-All	0 or 3	90
		C-PI-AB-MG - Smallwood	0 or 3	85
		C-Sw-All-All - Smallwood	0 or 3	120
	Deciduous	D-Aw-All-All	1 or 2	75
	Rank 1 & 2 Stands	D-AW-MI-AII	1012	15
	Deciduous	D-Aw All All	0 01 3	105
	Rank 0 & 3 Stands	D-Aw-All-All	0 or 3	105
Access		value intactness areas for 20 years. Access to	caribou high value intactness areas	with an SSI_CF rating >= 50
	permitted after 10 years.	·	<u> </u>	
Transitions	All harvetsed strata return	to same yield strata after harvest or death. Ran	k 1 & Rank2 MPB stands return to F	Rank 0
Optimization	Objective	Maximize Conifer & Deciduous Volumes		
	Constraints	Two even flow conifer volume periods, the second from year 21 to year 200. The de		
		200 years. Operable conifer and deciduc the last 50 years of the planning horizon. m3 in the fifth period (90% of the current operable Rank1 & Rank2 stands by 55% must be <= 6.0 stems/m3 for the first 10 remainder of the planning horizon.	onifer volume must be >= 186,000 13/7 AAC). reduce the amount of by year 20. Average piece size	
Planning Horizon	200 years			

#### **Spatial Modeling**

The spatial modeling consisted of applying a set of spatial constraints to the optimal aspatial solution. This TSA does not utilize a green-up constraint, so stands are not constrained as to their harvest period based on their proximity to recently harvested polygons. Multi period openings were allowed, so that the model could continue to harvest polygons adjacent to existing clearcuts, essentially adding to the size of the original clearcut. The criteria for the aspatial modeling are listed and discussed in the following sub sections, and summarized in Table 6-4 at the end of section 6.2. While the aspatial model is constrained to fully meet the criteria established, the spatial model has some flexibility during the sequencing of cutblocks to change the optimal solution outputs. As such the outputs after spatial modeling are re-evaluated to determine if the objectives are still being acceptably met. Outputs generated from the spatial sequencing process are discussed in Section 8.

#### Adjacent and Proximal Distances

In this analysis the adjacency distance was set to 0 meters, meaning only polygons directly touching each other could be joined in creating a harvest block.

As a green-up constraint was not used in this TSA, the proximity distance was set to 0 meters.

#### Green-up Length

As previously mentioned a green-up constraint was not used in this analysis.

#### **Deviation from Optimal Sequence**

During model selection of the spatial sequence, RSPS was allowed to deviate from the optimal aspatial sequence by up to 3 five year periods. This allowed the model to make some changes to the optimal sequence while limiting the affect to the AAC.

#### Flow Fluctuation

The spatial model was allowed to a flow fluctuation of 5% so that the lowest and highest periodic solution values are within no more than 5% of each other. By allowing this fluctuation, the model is not overly constrained by existing polygon sizes and has the ability to make better choices with some flexibility built into it while maintaining a relative even flow of volumes over time.

#### **Spatial Planning Horizon**

The spatial sequence was generated for 70 years or approximately one third of the aspatial planning horizon.

#### Reduction for Spatial Sequencing

Through the spatial sequencing exercise the primary conifer AACs achieved 88.7% of the optimal aspatial conifer AAC for the first 20 years of the SHS, while achieving 76.5% of

the optimal aspatial conifer sequence for years 21 to 70 of the SHS. The primary deciduous AAC achieved 90.1% of the optimal aspatial deciduous AAC.

#### Post Modeling Adjustment for Removal of 5% in Block Loss Requirement

After the SHS had been selected, the requirement to incorporate a 5% loss for roads and landings, had been removed from the planning requirements. Subsequently the final SHS AACs were replayed through RSPS a final time with the previously applied 5% reduction removed.

Adjacency Distance Proximity Distance Green-Up Lenath Conifer Non Block Sizes in ha Conifer Maximum Non Minimum Target Deciduous None Minimum None **Farget** 3 Period Deviation from Optimal Sequence low Fluctuation Conifer 59 ears Sequenced Conifer Deciduous

Table 6-4: Spatial Model Criteria

## Playback and Re-Optimization

Part of the analysis includes playing back the selected 70 year SHS through RSPS and reoptimizing from year 71 to the end of the original 200 year planning horizon utilizing the original timber supply objectives and constraints. This demonstrates that the original objectives are still being met, or at least are acceptable. The key outputs for the playback are harvest volumes and growing stocks. The results from the playback are included in Section 8 where applicable.

#### PFMS TSA Results

The PFMS results are summarized in this section. These are the outputs from the timber supply model discussed in sections 5, 6 and 7. Each key output is broken down into its own section for clarity. Where applicable, each section may show outputs for the aspatial, spatial and playback portions of the analysis. The 20 year spatial harvest sequence map is at the end of this section.

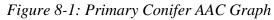
#### **Volume Harvested**

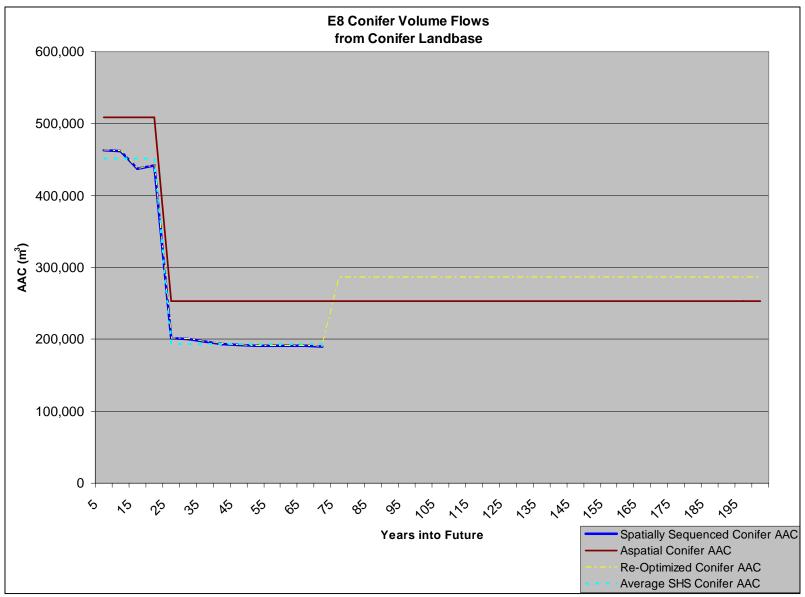
The recommended PFMS AACs are shown in Table 8-1. The spatially sequenced flow for the pure conifer, or primary conifer, component of the TSA is reported in the table as an average of the first flow period (20 years) and as an average of the second flow period (50 years). The flow for the pure deciduous component of the TSA is reported as the average of the 70 year spatial harvest sequence. The first 20 years of the incidental, or secondary, AACs are an average of the first 20 years for each species group.

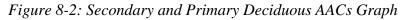
Table 8-1: E8 PFMS AACs

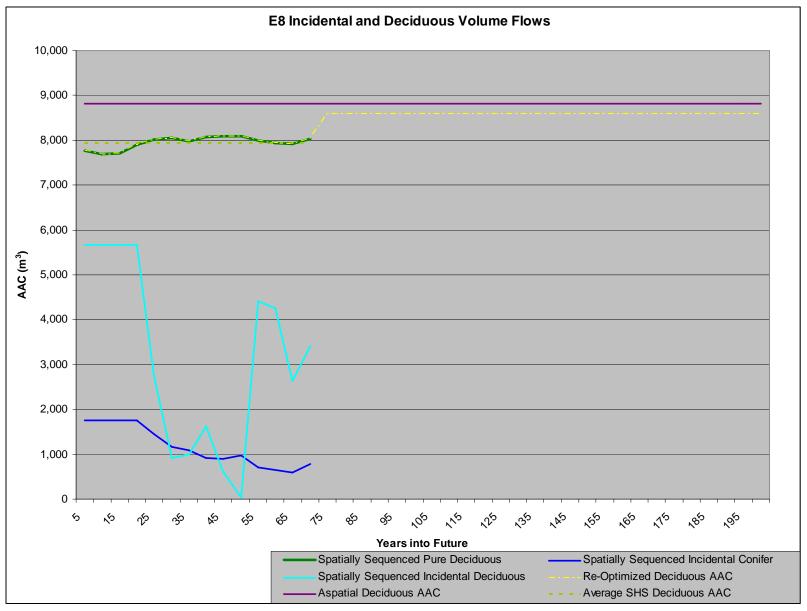
E8 PFMS AACs						
	AAC Flo	w Period				
	Year 1 to 20 Year 21 to 70					
AAC Component	Harvest Volume (m <sup>3</sup> )	Harvest Volume (m <sup>3</sup> )				
Primary Conifer	450,951	193,871				
Secondary Conifer	1,765					
Total Conifer	452,716					
Primary Deciduous	7,948	7,948				
Secondary Deciduous	5,673					
Total Deciduous	13,621					

The recommended PFMS primary conifer AAC is shown in Figure 8-1. As the harvest levels for the incidental flows and pure deciduous flow are significantly lower than the pure conifer AAC, the secondary and deciduous flows are depicted in Figure 8-2 to show these AACs at a better scale. The AACs shown in these two graphs include the initial aspatial run as well as the run demonstrating the resultant flows after re-optimizing the TSA from year 71 to 200 after following the prescribed 70 year spatial harvest sequence. These graphs show the actual SHS flow as well as the average for each flow period as described above. As can be seen in Figure 8-1 the re-optimized conifer playback demonstrates a recovery of the primary conifer volume after following the 70 year spatial harvest sequence. This demonstrates that subsequent re-planning, after the focus on reducing the highly susceptible MPB stands through an initial 20 year accelerated harvest, should result in a recovery of the conifer AAC in time.









### **Growing Stock**

The planning standard requires that the amount of operable growing stock must be stable over the last quarter of the planning horizon. The aspatial configuration of the PFMS utilized a non-declining operable growing stock constraint over the last 50 years of the planning horizon to ensure its ending stability. While the selected SHS is for 70 years, the re-optimization playback as described in Section 7 was used to demonstrate the future stability of the operable growing stock at the end of the 200 year planning horizon. As with the harvest volume graphs being split to better represent the scale difference between the primary conifer and the other AAC components, Figure 8-3 and Figure 8-4 demonstrate the operable growing stock levels from the aspatial, spatial and re-optimized playback runs.

Figure 8-3: Primary Conifer Operable Growing Stock Graph

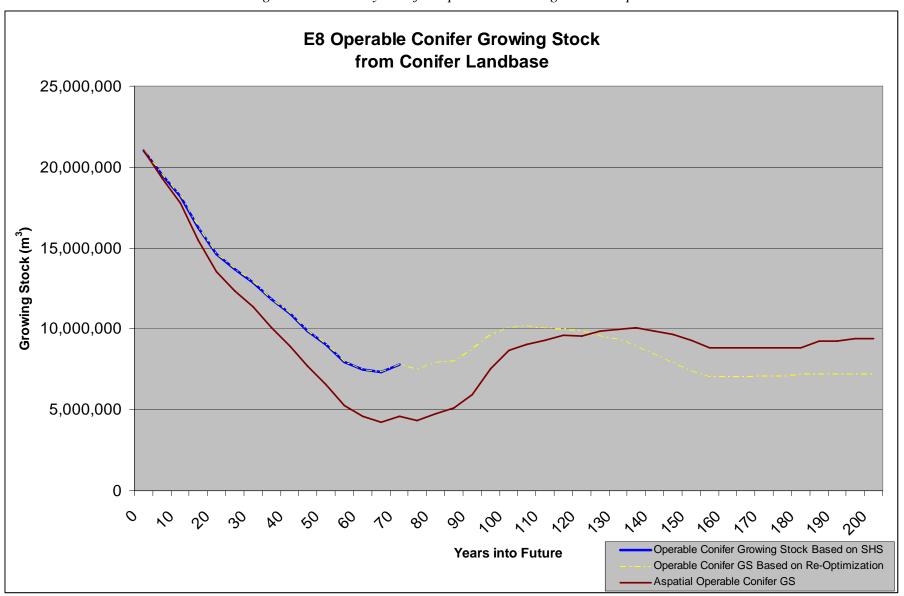
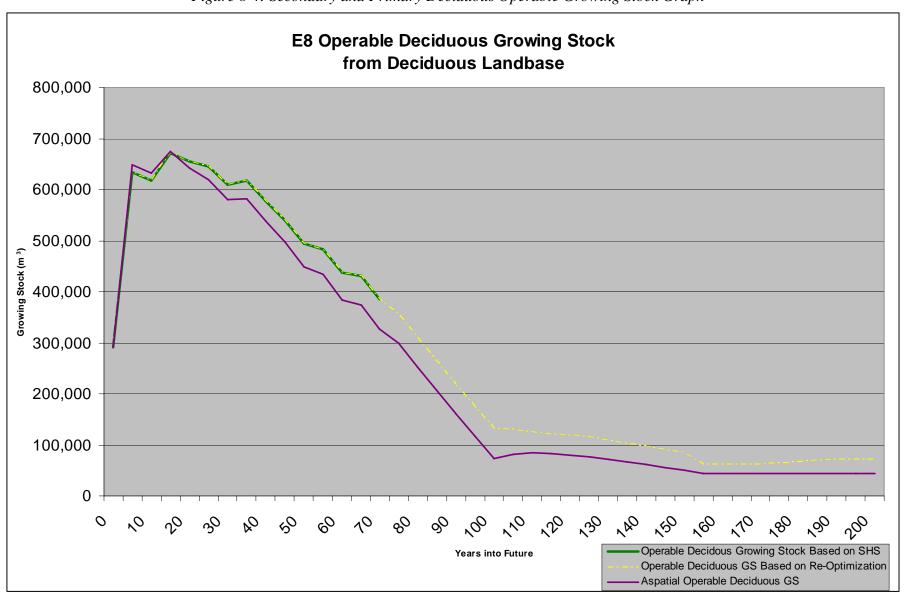


Figure 8-4: Secondary and Primary Deciduous Operable Growing Stock Graph



## **Average Harvest Age**

The average harvest ages are shown in Figure 8-5. They show a slow and steady increase over the 70 year period of the SHS. This is probably attributed to the previously undisturbed areas of E8 becoming eligible for harvest after 20 years.

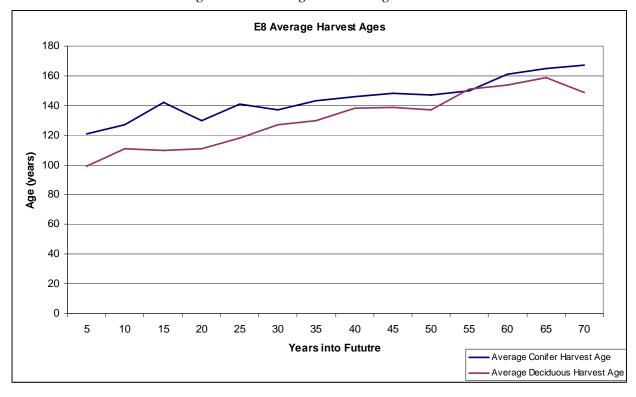


Figure 8-5: Average Harvest Age

## **Average Harvest Volume**

Average harvest volumes are reported as volume in m<sup>3</sup> per hectare. The output of the SHS of the PFMS shows a stable average volume per hectare (vol/ha) over the 70 years of the SHS. Figure 8-6 graphically illustrates this trend.

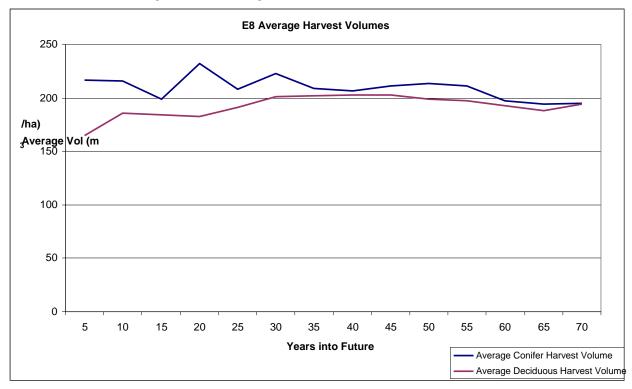


Figure 8-6: Average Harvest Volume/Hectare

#### **Average Piece Size**

As average coniferous piece size was one of the timber supply metrics that was constrained for the PFMS, the output of the selected SHS results in a fairly stable average piece size represented as stems/hectare over the span of the SHS. Figure 8-7 demonstrates the average piece size.

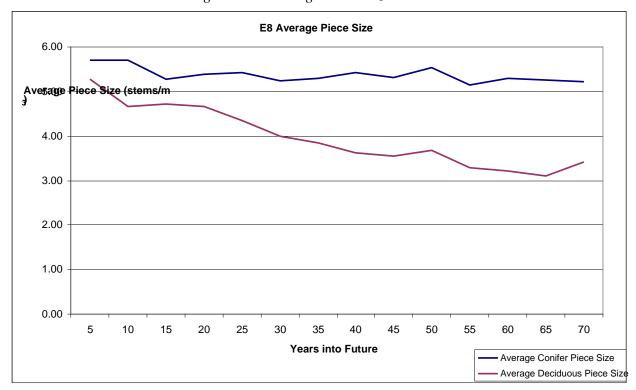
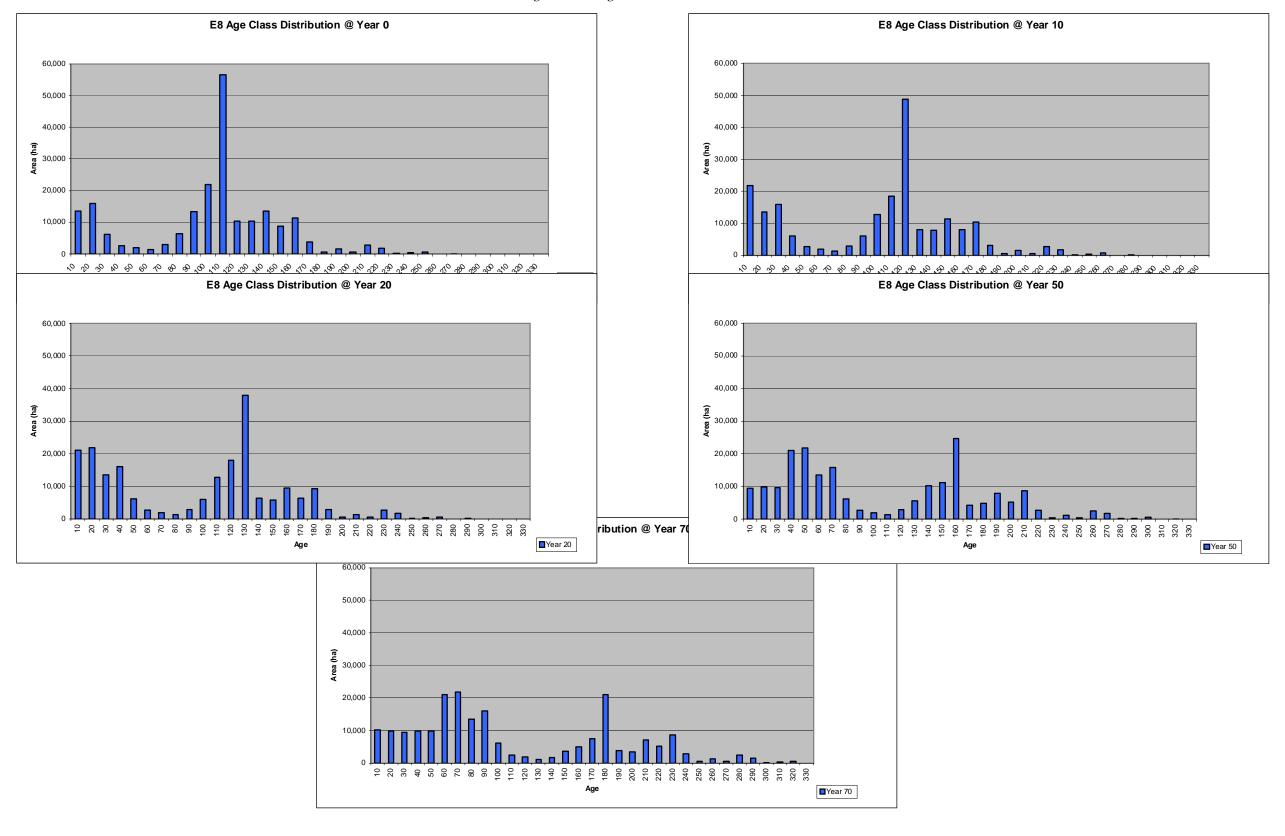


Figure 8-7: Average Piece Size

#### **Age Class Distribution**

The Age Class Distribution (ACD) shows the future forest's age structure based on the prescribed actions occurring on the landscape. The series of graphs in Figure 8-8 demonstrate how the overall age of the E8 FMU changes over the 70 years horizon of the SHS. As can be seen in the graphs the initial state of the forest has a large amount of landbase in the 110 year age class. After 70 years of harvesting, including the accelerated harvest for MPB pine stand reduction, there is still a significant amount of land in the now 180 year age class. What can also be seen after 70 years is the even distribution of landbase in the 10 to 50 year age classes with an increase in the amount of land in the 60 and 70 year age classes due to the accelerated coniferous harvest in the first 20 years. These graphs lead into the next section, Section 8.7, dealing with seral stages.

Figure 8-8: Age Class Distribution Over Time



#### **Seral Stage Distribution**

The seral stage definitions utilized for this TSA were those developed by Alberta Sustainable Resource Development by Natural Sub-Region. Table 8-2 lists the criteria for assignment of a polygon to one of the five seral stages based on stand age.

*Table 8-2: Seral Stage Definitions* 

Sub-Region	Strata	Regeneration	Young	Mature	Early Old Growth	Late Old Growth
Upper Foothills	D	0-25	26-80	81-140	141-180	>180
	DC	0-30	31-90	91-150	151-200	>200
	CD	0-30	31-90	91-160	161-210	>210
	C - Sx leading*	0-30	31-90	91-200	201-250	>250
	C - Sb leading**	0-40	41-100	101-200	201-250	>250
	C - Pl leading	0-30	31-80	81-160	161-210	>210
Sub-alpine	D	0-25	26-80	81-140	141-180	>180
	DC	0-30	31-90	91-150	151-200	>200
	CD	0-30	31-90	91-160	161-210	>210
	C - Se leading***	0-40	41-100	101-220	220-275	>275
	C - PI leading	0-30	31-80	81-140	141-180	>181
	C - Pw leading	0-30	31-100	101-200	201-250	>250
	C - La leading	0-50	51-110	111-225	226-300	>300
	C - Sb leading****	0-50	51-120	121-225	226-300	>300
Montane	D	0-25	26-70	71-120	121-150	>150
	DC	0-25	26-70	71-130	131-160	>160
	CD	0-25	26-80	81-140	141-170	>170
	C - Sw leading	0-30	31-90	91-180	181-230	>230
	C - PI leading	0-30	31-80	81-130	131-170	>171
	C - Fd leading	0-30	31-90	91-200	201-250	>250
	C - Sb leading	0-40	41-100	101-200	201-250	>250

Notes:

As seral stage age class ranges vary by strata and sub-region, the trends seen here are somewhat different than when examining simple age class distributions. Figures 8-9 and 8-10 show the same seral stage data in two different formats for comparison. What is apparent from examining these graphs is the slow tendency towards "normalizing" the distribution of seral stages to a more even distribution of area in all stages. The initial forest state with a preponderance of mature seral stage stands changes over the 70 years of the SHS generating more early old growth and regeneration stage stands. There is also a slight increase of late old growth stands by the end of the SHS horizon.

Tables 8-3 to 8-7 depict the seral stage distribution of the net landbase for years 0, 10, 50, 100 and 200, while Tables 8-8 to 8-12 depict the seral stage distribution of the gross landbase for years 0, 10, 50, 100 and 200. Years 100 and 200 are based on the re-optimized analysis as described in Section 7.

A full map sheet is provided in Reference Section in the "Future Forest Condition" section which provides snapshots of the seral stage distribution in the E8 FMU for years 0, 10, 20, and 50 based on the PFMS SHS.

Sx leading in Upper Foothills includes Sw, Se and Fb leading

<sup>\*\*</sup> Sb leading includes Lt leading

<sup>\*\*\*</sup> Se leading in Sub-alpine incudes Fb, Fa and Sw leading stands

<sup>\*\*\*\*</sup> Sb leading includes Lt leading (note: pure Lt at higher elevations may be La mis-typed. If no black spruce is present in stand type allocate Lt to La leading instead)

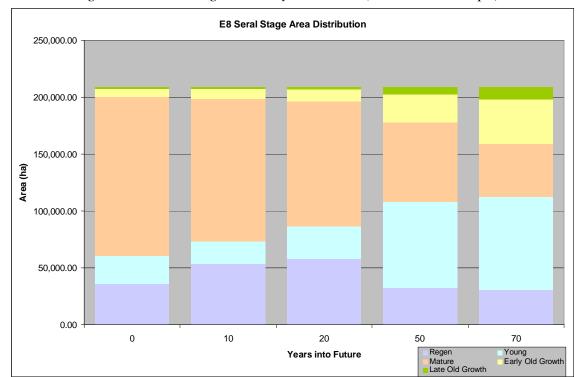
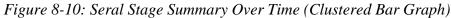


Figure 8-9: Seral Stage Summary Over Time (Stacked Bar Graph)



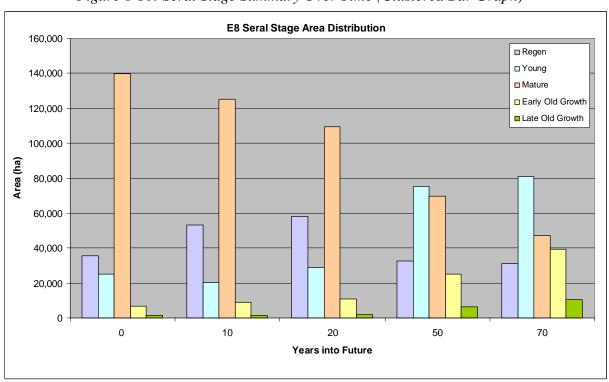


Table 8-3: Net Landbase Seral Stage Distribution at Year 0

Sum of Area SeralState LOG Mature Compartment Regen Young Grand Total CCOMPALAL CDMXALAL 55 169 224 CPI ARE 302 346 545 12 1,204 CPLABMG 99 870 1,006 32 CPLABMGS 24 1 711 736 CPLCDF 131 3.039 4.396 7,689 122 CPLCDMG 22 1,419 1,802 3.496 36 217 CSBALAL 313 124 243 687 8 CSWALAL 166 1,325 1,939 303 3,733 CSWALALS 154 1,534 92 1,781 DCMXALAL 267 920 10,407 **BOLT Total** 9,833 1,003 22,564 CCOMPALAL 1,792 CDMXALAL 164 262 426 **CPLABF** 199 77 4.196 4,485 CPLABMG 77 5 2,442 11 2,534 **CPLABMGS** 35 5 734 774 29 6 303 2 454 CPI CDF 5 104 8.896 CPLCDMG 4,072 2,814 75 6.961 CSBALAL 15 2.381 299 1,137 3.832 CSWALAL 409 62 475 CSWALALS 25 512 537 DAWALAL 21 110 130 DCMXALAL 161 25 203 DEEP Total 357 115 21,395 1,361 31,046 HUCK CCOMPALAL CDMXALAL CPLABF 863 2,498 1 15 3,378 CPLABMG 45 858 903 CPLABMGS 74 1,143 1,217 CPI CDF 533 10.584 349 759 12.225 CPLCDMG 36 2,981 149 100 3,266 271 506 CSBALAL 5 783 CSWALAL 1,312 2 70 1,384 **CSWALALS** 14 1,934 1,948 OCMXALAL **HUCK Total** 1,565 21,587 508 1,467 25,127 MUSK CCOMPALAL CDMXALAL 222 160 382 CPLABF 2 1,879 8 664 2,553 CPLABMG 68 2,127 15 293 2,502 **CPLABMGS** 885 885 CPLCDF 5,640 152 74 6,538 **CPLCDMG** 141 27 4,060 980 5,208 CSBALAL 14 795 10 143 962 1,569 CSWALAL 2,501 102 4,172 CSWALALS 1,378 30 1,408 DAWALAL 122 1,275 501 1,897 DCMXALA 214 468 254 MUSK Total 232 21,015 5,300 26,979 SIMO CCOMPALAL 481 CDMXALAL 28 28 CPLABF 268 271 1,973 2,511 CPLABMG 151 837 989 **CPLABMGS** 41 251 292 CPLCDF 278 180 6,096 4,200 37 10,790 CPLCDMG 53 5 1,408 2,630 4,099 CSBALAL 1,754 519 2.572 298 1,009 CSWALAL 207 86 1,305 CSWALALS 231 33 1,374 1,110 DAWALAL 34 34 28 DCMXALAL 19 SIMO Total 488 14,487 24,504 1,108 7,860 561 SMOK CCOMPALAL 3,191 CDMXALAL 497 819 1,604 CPLABF 21 466 552 CPLABMG 94 867 63 1,023 **CPLABMGS** 56 479 542 CPLCDF 36 2,241 1,370 899 4,547 CPLCDMG 87 2,750 918 966 4,721 CSBALAL 249 97 357 CSWALAL 7 1.998 1.250 609 3.863 CSWALALS 993 36 1.028 DAWALAL 2,669 353 615 3,636 DCMXALAI 1,865 500 383 982 SMOK Total 301 13,708 7,764 5,157 26,930 Grand Total 4,482 1,004 102,025

Note on Compartment Names:
BOLT – Bolton
DEEP – Deep Valley
HUCK – Huckleberry
MUSK – Muskeg
SIMO – Simonette
SMOK - Smoky

Table 8-4: Net Landbase Seral Stage Distribution at Year 10

Sum of Area		SeralState					
Compartment	Strata	EOG	LOG	Mature	Regen	Young	Grand Total
BOLT	CCOMPALAL				1,741		1,741
	CDMXALAL	2		53	149	20	224
	CPLABF	200	341	285	376	3	1,204
	CPLABMG	120			347		1,006
	CPLABMGS	10		408	316		736
	CPLCDF	332	1	1,923	4,001	1,432	7,689
	CPLCDMG	39		,	2,002	432	3,496
	CSBALAL	3		275	226	178	687
	CSWALAL	205		1,387	1,791	350	3,733
	CSWALALS	323		1,345	111	2	1,781
	DCMXALAL			22	142	103	267
BOLT Total	IOOOMBALAL	1,239	381	7,220	11,203	2,521	22,564
DEEP	CCOMPALAL			400	1,792		1,792
	CDMXALAL	200	77	126	300		426
	CPLABF	300		-,	322	44	4,485
	CPLABMG	237		, -	512	11	2,534
	CPLABMGS	44			108	74	774
	CPLCDF	133			3,519	71	8,896
	CPLCDMG	53		2,953	3,876	79	6,961
	CSBALAL	10		2,418	686	719	3,832
	CSWALAL	21		368	83	3	475
	CSWALALS	34	1	491	11		537
	DAWALAL			12	118		130
DEEP Total	DCMXALAL	832	OF.	17 875	11 361	882	203 31,046
HUCK	CCOMPALAL	832	95	17,875	11,361 1	882	31,046
IIIOCK	COMPALAL			6	1	2	8
	CPLABF	1,063		2,021	294	2	l
	CPLABF			737			3,378
		57			109		903
	CPLABMGS			1,016	127	107	1,217
	CPLCDF	676		10,012	1,340	197	12,225
	CPLCDMG	55		2,742	467	2	3,266
	CSBALAL CSWALAL	50		338 1,288	29 4	416 41	783 1,384
	CSWALALS	45		,	57	41	1,948
	DCMXALAL	40		1,043	1	14	1,946
HUCK Total	DOWNALAL	2,021	2	20,003	2,429	672	25,127
MUSK	CCOMPALAL	2,02		20,000	4	0.2	4
	CDMXALAL			199	59	123	382
	CPLABF	2		1,865	281	406	2,553
	CPLABMG	97		1,539	608	258	2,502
	CPLABMGS			703	176		885
	CPLCDF			4,280	2,022	236	6,538
	CPLCDMG	15		3,255	1,255	684	5,208
	CSBALAL	14		711	158	79	962
1	CSWALAI			2 780	259	1 133	4 172
	CSWALAL CSWALALS	3		2,780 1.328	259 75	1,133 2	4,172 1,408
	CSWALALS	3		1,328	75	2	1,408
		122		,		,	
MUSK Total	CSWALALS DAWALAL			1,328 1,146	75 172	2 457	1,408 1,897
MUSK Total SIMO	CSWALALS DAWALAL DCMXALAL	122		1,328 1,146 286	75 172 1	2 457 182	1,408 1,897 468
	CSWALALS DAWALAL DCMXALAL	122		1,328 1,146 286	75 172 1 5,071	2 457 182	1,408 1,897 468 26,979
	CSWALALS DAWALAL DCMXALAL	122		1,328 1,146 286 18,090	75 172 1 5,071 481	2 457 182	1,408 1,897 468 26,979 481
	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL	122 258	261	1,328 1,146 286 18,090	75 172 1 5,071 481 7	2 457 182	1,408 1,897 468 26,979 481 28
	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF	122 258 298	261 1	1,328 1,146 286 18,090 20 1,230	75 172 1 5,071 481 7 722	2 457 182	1,408 1,897 468 26,979 481 28 2,511
	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF	258 298 225	261 1	1,328 1,146 286 18,090 20 1,230 379 76	75 172 1 5,071 481 7 722 385 149 5,870	2 457 182	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790
	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG	122 258 298 225 67	261 1 78	1,328 1,146 286 18,090 20 1,230 379 76 4,250 884	75 172 1 5,071 481 7 722 385 149 5,870 3,072	2 457 182 3,560	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099
	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL	256 298 225 67 324 54	261 1 78 4	1,328 1,146 286 18,090 20 1,230 379 76 4,250 884 1,346	75 172 1 5,071 481 7 722 385 149 5,870 3,072 767	2 457 182 3,560 269 85 459	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572
	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL	122 258 298 225 61 324 54	261 1 78 4	1,328 1,146 286 18,090 20 1,230 379 76 4,250 884 1,346 864	75 172 1 5,071 481 7 722 385 149 5,870 3,072	2 457 182 3,560	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572
	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS	256 298 225 67 324 54	261 1 78 4	1,328 1,146 286 18,090 20 1,230 379 76 4,250 884 1,346 864	75 172 1 5,071 481 7 722 385 149 5,870 3,072 767 308 135	2 457 182 3,560 269 85 459	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572
	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL DAWALAL	122 258 298 225 61 324 54	261 1 78 4	1,328 1,146 286 18,090 20 1,230 379 76 4,250 884 1,346 865	75 172 1 5,071 481 7 722 385 149 5,870 3,072 767 308 135 34	2 457 182 3,560 269 85 459	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305 1,374
SIMO	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS	122 258 298 225 67 324 54 131 320	261 1 78 4	1,328 1,146 286 18,090 20 1,230 379 76 4,250 884 1,346 864 885	75 172 1 5,071 481 7 722 385 149 5,870 3,072 767 308 135 34	2 457 182 3,560 269 85 459 2	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305 1,374 34
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL	122 258 298 225 61 324 54	261 1 78 4	1,328 1,146 286 18,090 20 1,230 379 76 4,250 884 1,346 864 885	75 172 1 5,071 481 7 722 385 149 5,870 3,072 767 308 135 34 5	2 457 182 3,560 269 85 459 2	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305 1,374 34 28
SIMO	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS DAWALAL DCMXALAL	122 258 298 225 67 324 54 131 320	261 1 78 4	1,328 1,146 286 18,090 20 1,230 379 76 4,250 884 1,346 885 19 9,954	75 172 1 5,071 481 7 722 385 149 5,870 3,072 767 308 135 34 5 5,1935	2 457 182 3,560 269 85 459 2	1,408 1,897 468 26,979 481 28 2,511 1989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL DCMXALAL CCOMPALAL CCOMPALAL CDMXALAL	122 258 298 228 67 324 54 131 320	261 1 78 4 33	1,328 1,146 286 18,090 20 1,230 379 76 4,250 884 1,346 865 885 19 9,954	75 172 1 5,071 481 7 722 385 149 5,870 3,072 767 308 135 34 5 11,935 3,191 322	2 457 182 3,560 269 85 459 2 4 819	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305 1,374 28 24,504 3,191 1,604
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CCOMPALAL CDMALAL CDMALAL CDMALAL CDMALAL CDMALAL CDMALAL CDMALAL CDMALAL CPLABF	258 298 225 67 324 131 320 1,420	261 1 78 4 33	1,328 1,146 286 18,090 20 1,230 379 76 4,250 864 885 19 9,954	75 172 5,071 481 7 722 385 149 5,870 3,072 767 308 135 34 5 11,935 3,191 322 169	269 85 459 269 85 459 2 4 819	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604 552
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CCOMPALAL CDMXALAL CDMXALAL CPLABF CPLABMG	122 258 298 225 67 324 54 131 320 1,420	261 1 78 4 33 376	1,328 1,146 286 18,090 20 1,230 379 76 4,250 884 1,346 864 885 19 9,954 482 3500 548	75 172 1 5,071 481 7 722 385 149 5,870 3,072 767 767 308 135 34 5 11,935 3,191 322 169 427	2 457 182 3,560 269 85 459 2 4 819	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604 552 1,023
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CDMXALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG	122 258 298 225 61 324 54 131 320 1,420	261 1 78 4 33 376	1,328 1,146 286 18,090 20 1,230 379 76 4,250 884 1,346 864 885 19 9,954 482 350 548 413	75 172 1 5,071 481 7 722 385 149 5,870 3,072 767 308 135 34 5 11,935 3,191 322 169 427 128	2 457 182 3,560 269 85 459 2 4 819 801 10	1,408 1,897 468 26,979 481 28 2,511 1,989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604 552 1,023 542
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CDMXALAL CDMXALAL CPLABF CPLABMG CPLCDF	122 258 298 228 67 324 54 131 320 1,420	261 1 78 4 33 376	1,328 1,146 286 18,090 20 1,230 379 76 4,250 884 1,346 865 485 49,954 482 350 548 413 1,429	75 172 1 5,071 481 7 722 385 149 5,870 3,072 767 308 135 34 5 11,935 3,191 322 169 427 128 1,870	2 457 182 3,560 269 85 459 2 4 819 801 10 11	1,408 1,897 468 26,979 481 28 2,511 1989 292 10,790 4,099 2,572 1,305 1,374 28 24,504 3,191 1,604 552 1,023 542 4,547
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CDMXALAL CDMXALAL CPLABF CPLABMG CPLCDF CPLCDMG	122 258 298 225 61 324 54 131 320 1,420	261 1 78 4 33 376	1,328 1,146 286 18,090 20 1,230 379 76 4,250 844 1,346 864 885 19 9,954 482 350 548 413 1,429 2,202	75 172 5,071 481 7 722 385 149 5,870 3,072 767 308 135 3,191 322 169 427 128 1,870 2,264	269 85 459 269 85 459 2 4 819 801 10 11 1,211 183	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604 552 1,023 542 4,547 4,721
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL  CPLABF CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL DCMXALAL CDMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CSBALAL	122 258 298 225 67 324 54 131 320 1,420	261 1 78 4 33 376	1,328 1,146 286 18,090 20 1,230 379 76 4,250 884 1,346 864 885 19 9,954 482 3500 548 413 1,429 2,202 219	75 172 5,071 481 7 722 385 149 5,870 3,072 767 767 308 135 34 5 11,935 3,191 322 169 427 128 1,870 2,264	269 855 459 269 815 459 2 4 819 801 10 11 1,211 183 84	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604 552 1,023 542 4,547 4,721
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CDMXALAL CPLABF CPLABMG CPLCDMG CSBALAL CSWALAL CSWALAL	122 258 298 228 67 324 54 131 320 1,420	261 1 78 4 33 376	1,328 1,146 286 18,090 20 1,230 379 76 4,250 884 1,346 865 485 49 9,954 482 350 548 413 1,429 2,202 2,199 1,987	75 172 1 5,071 481 7 722 385 149 5,870 3,072 767 308 135 34 5 11,935 3,191 322 169 427 128 1,870 2,264 1,406	269 85 459 2 819 801 10 11,211 183 84 463	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604 552 1,023 542 4,547 4,721 357 3,863
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL CCMPALAL CDMXALAL CCMPALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL CSWALAL	122 258 298 225 67 324 54 131 320 1,420	261 1 78 4 33 376	1,328 1,146 286 18,090 20 1,230 379 76 4,250 884 1,346 865 485 485 413 1,429 2,202 219 1,987 831	75 172 1 5,071 481 7 722 385 149 5,870 3,072 767 308 135 34 5 11,935 3,191 322 169 427 128 1,870 2,264 54 1,406 180	2 457 182 3,560 269 85 459 2 4 819 801 10 11 1,211 183 84 463 17	1,408 1,897 468 26,979 481 28 2,511 1,0790 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604 552 1,023 542 4,547 4,721 357 3,863 1,028
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL CCOMPALAL CCMALAL CCMALAL CCMALAL CCMALAL CCMALAL CCMALAL CCMALAL CPLABF CPLABMG CSWALAL	122 258 298 225 67 324 54 131 320 1,420	261 1 78 4 33 376	1,328 1,146 2890 1,230 379 76 4,250 884 1,346 885 19 9,954 482 350 548 413 1,429 2,202 219 1,987 831 2,632	75 172 5,071 481 7 722 385 149 5,870 3,072 767 308 135 5 11,935 3,191 322 169 427 128 1,870 2,264 54 1,406 180 357	269 85 459 269 85 459 2 4 819 801 11 1,211 183 84 463 177 647	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604 552 1,023 542 4,547 4,721 357 3,863 1,028 3,636
SIMO Total SMOK	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL CCMPALAL CDMXALAL CCMPALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL CSWALAL	122 258 298 225 67 324 54 131 320 1,420 23 36 71	261 1 78 4 33 376	1,328 1,146 286 18,090 20 1,230 379 76 4,250 884 1,346 864 885 19 9,954 482 350 548 413 1,429 2,202 219 1,987 831 2,632 2,552	75 172 5,071 481 7 722 385 149 5,870 3,072 767 767 308 135 3,191 322 169 427 128 1,870 2,264 54 1,406 180 357 415	269 855 459 2 4 819 801 11 1,211 183 84 463 17 647 898	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604 552 1,023 542 4,547 4,721 357 3,863 1,028 3,636 1,865
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL CCOMPALAL CCMALAL CCMALAL CCMALAL CCMALAL CCMALAL CCMALAL CCMALAL CPLABF CPLABMG CSWALAL	122 258 298 225 67 324 54 131 320 1,420	261 1 78 4 33 376	1,328 1,146 286 18,090 20 1,230 379 76 4,250 884 1,346 865 485 49 9,954 482 350 548 413 1,429 2,202 2,199 1,987 831 2,632 552 511,646	75 172 5,071 481 7 722 385 149 5,870 3,072 767 308 135 5 11,935 3,191 322 169 427 128 1,870 2,264 54 1,406 180 357	269 85 459 269 85 459 2 4 819 801 11 1,211 183 84 463 177 647	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604 552 1,023 542 4,547 4,721 357 3,863 1,028 3,636

Table 8-5: Net Landbase Seral Stage Distribution at Year 50

Compartment		SeralState						
	Strata	EOG	Ī	_OG	Mature	Regen	Young	Grand Total
BOLT	CCOMPALAL						1,741	1,741
	CDMXALAL		5		5	28	185	224
	CPLABF		101	393	121	34	556	1,204
	CPLABMG		112	18	90	147	639	1,006
	CPLABMGS		96	0	8	143	489	736
	CPLCDF		219	121	542	533	6,273	7,689
	CPLCDMG		88	8	353	304	2,743	3,496
	CSBALAL		4	8	190	344	141	687
	CSWALAL		349	166	1,113	94	2,012	3,733
	CSWALALS		315	153	661	486	166	1,781
	DCMXALAL				14	8	246	267
BOLT Total		1	,290	866	3,097	2,120	15,191	22,564
DEEP	CCOMPALAL						1,792	1,792
	CDMXALAL		24		26	18	358	426
	CPLABF		713	233	1,231	1,385	923	4,485
	CPLABMG		258	93	187	815	1,182	2,534
	CPLABMGS		96	17	72	228	361	774
	CPLCDF		312	72	1,109	2,636	4,766	8,896
	CPLCDMG		255	27	645	1,465	4,570	6,961
	CSBALAL		139	9	716	2,535	434	3,832
	CSWALAL		72		187	126	90	475
	CSWALALS		144	25	174	126	67	537
	DAWALAL		6			3	121	130
	DCMXALAL		23		17	87	76	203
DEEP Total		2	2,042	476	4,365	9,423	14,740	31,046
HUCK	CCOMPALAL						1	1
	CDMXALAL		0		2		6	8
	CPLABF		690	194	670	1,082	742	3,378
	CPLABMG		123	14	53	486	228	903
	CPLABMGS		172	24	17	735	269	1,217
	CPLCDF	1	,091	98	2,731	5,356	2,949	12,225
	CPLCDMG		275	8	451	1,449	1,082	3,266
	CSBALAL		6		195	568	14	783
	CSWALAL		167		787	420	10	1,384
	CSWALALS		214	14	1,035	566	118	1,948
	DCMXALAL				12	3	1	15
HUCK Total		2	2,737	353	5,953	10,664	5,420	25,127
MUSK	CCOMPALAL						4	4
	CDMXALAL		9		214	2	156	382
	CPLABF		475		1,160	377	543	2,553
	CPLABMG		351	43	556	266	1,287	2,502
	CPLABMGS		100		90	134	561	885
	CPLCDF		386		1,434	1,113	3,604	6,538
	CPLCDMG		250	10	1,428	1,187	2,333	5,208
	CSBALAL		9		199	597	157	962
	CSWALAL		11		3,389	336	435	
	CSWALALS	Ì	51					4,172
					995	262	100	1,408
Į .	DAWALAL		529	122	375	262 367	504	1,408 1,897
	DAWALAL DCMXALAL		15		375 225	367 27	504 202	1,408 1,897 468
MUSK Total	DCMXALAL	2		122 174	375	367	504 202 9,886	1,408 1,897 468 26,979
MUSK Total SIMO	DCMXALAL	2	15 2,187		375 225 10,065	367 27 4,667	504 202 9,886 481	1,408 1,897 468 26,979 481
	DCMXALAL CCOMPALAL CDMXALAL	2	15 2,187 1	174	375 225 10,065	367 27 4,667	504 202 9,886 481 17	1,408 1,897 468 26,979 481 28
	DCMXALAL CCOMPALAL CDMXALAL CPLABF	2	15 2,187 1 244	174 363	375 225 10,065 3 510	367 27 4,667 6 188	504 202 9,886 481 17 1,206	1,408 1,897 468 26,979 481 28 2,511
	CCOMPALAL CDMXALAL CPLABF CPLABMG	2	15 2,187 1 244 131	174 363 20	375 225 10,065 3 510 96	367 27 4,667 6 188 26	504 202 9,886 481 17 1,206 718	1,408 1,897 468 26,979 481 28 2,511 989
	DCMXALAL CCOMPALAL CDMXALAL CPLABF	2	15 2,187 1 244	174 363	375 225 10,065 3 510	367 27 4,667 6 188	504 202 9,886 481 17 1,206	1,408 1,897 468 26,979 481 28 2,511
	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF	2	15 2,187 1 244 131 28 338	363 20 2 189	375 225 10,065 3 510 96 3 1,675	367 27 4,667 6 188 26 4 942	504 202 9,886 481 17 1,206 718 256 7,646	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790
	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG	2	15 2,187 1 244 131 28 338 119	363 20 2	375 225 10,065 3 510 96 3 1,675 288	367 27 4,667 6 188 26 4 942 114	504 202 9,886 481 17 1,206 718 256 7,646 3,573	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099
	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL	2	15 2,187 1 244 131 28 338 119 197	363 20 2 189 4	375 225 10,065 3 510 96 3 1,675 288 601	367 27 4,667 6 188 26 4 942 114 1,372	504 202 9,886 481 17 1,206 718 256 7,646 3,573 402	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572
	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL	2	15 2,187 1 244 131 28 338 119 197 292	363 20 2 189 4	375 225 10,065 3 510 96 3 1,675 288 601 448	367 27 4,667 6 188 26 4 942 114 1,372 150	504 202 9,886 481 17 1,206 718 256 7,646 3,573 402 328	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305
	DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS	2	15 2,187 1 244 131 28 338 119 197	363 20 2 189 4	375 225 10,065 3 510 96 3 1,675 288 601	367 27 4,667 6 188 26 4 942 114 1,372	504 202 9,886 481 17 1,206 718 256 7,646 3,573 402 328 176	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305
	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DAWALAL	2	15 2,187 1 244 131 28 338 119 197 292 416	363 20 2 189 4	375 225 10,065 3 510 96 3 1,675 288 601 448	367 27 4,667 6 188 26 4 942 114 1,372 150	504 202 9,886 481 17 1,206 7,646 3,573 402 328 176 34	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305 1,374
SIMO	DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS		15 2,187 1 244 131 28 338 119 197 292 416	363 20 2 189 4 86 264	375 225 10,065 3 510 96 3 1,675 288 601 448 374	367 27 4,667 6 188 26 4 942 114 1,372 150 145	504 202 9,886 481 17 1,206 718 256 7,646 3,573 402 328 176 34 25	1,408 1,897 468 26,979 481 28 2,511 1989 292 10,790 4,099 2,572 1,305 1,374 34
SIMO SIMO Total	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS DAWALAL DCMXALAL		15 2,187 1 244 131 28 338 119 197 292 416	363 20 2 189 4	375 225 10,065 3 510 96 3 1,675 288 601 448	367 27 4,667 6 188 26 4 942 114 1,372 150	504 202 9,886 481 17 1,206 7,18 256 7,646 3,573 402 328 176 34 25	1,408 1,897 468 26,979 481 28 2,511 1,989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504
SIMO	CCOMPALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL DCMXALAL CCOMPALAL		15 2,187 1 244 131 28 338 119 197 292 416 3	363 20 2 189 4 86 264	375 225 10,065 3 510 96 3 1,675 288 601 448 374	367 27 4,667 6 188 26 4 942 114 1,372 150 145	504 202 9,886 481 177 1,206 7,646 3,576 402 328 176 34 25 14,861 3,191	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191
SIMO SIMO Total	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CDMXALAL		15 2,187 1 244 131 28 338 119 197 292 416 3 ,769	363 20 2 189 4 86 264	375 225 10,065 3 510 96 3 1,675 288 601 448 374 3,998	367 27 4,667 6 188 26 4 942 114 1,372 150 145	504 202 9,886 481 177 1,206 7,646 3,573 402 328 176 34 25 14,861 3,191 646	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604
SIMO SIMO Total	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CDMXALAL CDMXALAL CDMXALAL CPLABF		15 2,187 1 244 131 28 338 119 197 292 416 3 ,769	363 20 2 189 4 86 264	375 225 10,065 3 510 96 3 1,675 288 601 448 374 3,998	367 27 4,667 6 188 26 4 942 114 1,372 150 145 2,947 75 53	504 202 9,886 481 17 1,206 7,646 3,573 402 328 176 34 25 14,861 3,191 646 220	1,408 1,897 468 26,979 481 28 2,511 1989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604
SIMO SIMO Total	DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG		15 2,187 1 244 131 28 338 119 197 292 416 3 ,769 57 127	363 20 2 189 4 86 264 928	375 225 10,065 3 510 96 3 3 1,675 288 601 448 374 3,998	367 27 4,667 6 188 26 4 942 114 1,372 150 145 2,947 75 53 72	504 202 9,886 481 17 1,206 7,646 3,573 402 328 176 34 25 14,861 3,191 646 220 659	1,408 1,897 468 26,979 481 28 2,511 1,989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604 552 1,023
SIMO SIMO Total	DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG		15 2,187 1 244 131 28 338 119 197 292 416 3 ,769 57 127 144 35	363 20 2 189 4 86 264 928	375 225 10,065 3 510 96 3 3 1,675 288 601 448 374 3,998 826 136 142 122	367 27 4,667 6 188 26 4 942 114 1,372 150 145 2,947 75 53 72 83	504 202 9,886 481 17 1,206 7,646 3,573 402 328 176 34 176 34 34 34 34 34 34 34 35 176 34 36 37 38 38 38 38 38 38 38 38 38 38	1,408 1,897 468 26,979 481 28 2,511 1,999 2,572 1,305 1,374 34 28 24,504 3,191 1,604 552 1,023 542
SIMO SIMO Total	DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CDMXALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMGS CPLCDF		15 2,187 1 244 131 28 338 319 197 292 416 3 ,769 57 127 144 35 215	174 363 20 2 189 4 86 264 928	375 225 10,065 3 510 96 3 1,675 288 601 448 374 3,998 826 136 142 120 977	367 27 4,667 6 188 26 4 942 114 1,372 150 145 2,947 75 53 72 83 485	504 202 9,886 481 17 1,206 7,646 3,573 402 328 176 34 25 14,861 3,191 646 220 659 303 2,868	1,408 1,897 468 26,979 481 28 2,571 989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 552 1,023 542 4,542 4,547
SIMO SIMO Total	DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CDMXALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG		15 2,187 1 2244 131 28 338 119 197 292 416 3 ,769 57 127 144 35 215 229	363 20 2 189 4 86 264 928	375 225 10,065 3 510 96 3 1,675 288 601 448 374 3,998 826 136 142 120 977 1,164	367 27 4,667 6 188 26 942 114 1,372 150 145 2,947 75 53 72 83 485 610	504 202 9,886 481 17 1,206 7,646 3,573 402 328 176 34 25 14,861 3,191 646 220 659 303 2,868 2,712	1,408 1,897 468 26,979 481 2,511 1,989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604 552 1,023 542 4,547 4,547
SIMO SIMO Total	DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL CCMPALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLADMG CSBALAL		15 2,187 1 244 131 28 338 119 197 292 416 3 ,769 57 127 144 35 215 229 0	363 20 2 189 4 86 264 928 17 6 0 0 1 5 5	375 225 10,065 3 510 96 3 3 1,675 288 601 448 374 3,998 826 136 142 120 977 1,164	367 27 4,667 6 188 26 4 942 114 1,372 150 145 2,947 75 53 72 83 485 610 133	504 202 9,886 481 17 1,206 7,646 3,573 402 328 176 34 255 14,861 3,191 646 22,868 2,718 2,868 2,718 57	1,408 1,897 468 26,979 481 28 2,511 1,090 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604 4,542 4,547 4,721
SIMO SIMO Total	DCMXALAL  CCOMPALAL CDMXALAL CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL		15 2,187 1 244 131 28 338 119 197 292 416 3 ,769 57 127 144 35 215 229 0 96	174 363 20 2 189 4 86 264 928	375 225 10,065 3 510 96 3 3 1,675 288 601 448 374 3,998 826 136 142 120 977 1,164 167 2,084	367 27 4,667 6 188 26 4 942 114 1,372 150 145 2,947 75 53 372 83 485 610 133 262	504 202 9,886 481 17 1,206 7,646 3,573 402 328 176 34 256 14,861 3,191 646 220 659 303 2,868 2,712 57 1,415	1,408 1,897 468 26,979 481 28 2,511 1,989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604 552 2,1,023 542 4,547 4,721 3,577 3,863
SIMO SIMO Total	CCOMPALAL CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL CCWALAL CCWALAL CCMPALAL CDMXALAL CDMXALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL		15 2,187 1 244 131 28 338 338 119 197 292 416 3 ,769 57 127 144 35 215 229 0 96 5	363 20 2 189 4 86 264 928 177 6 0 0 1 5	375 225 10,065 3 510 96 3 1,675 288 601 448 374 3,998 826 136 142 120 977 1,164 167 2,084 485	367 27 4,667 6 188 26 4 942 114 1,372 150 145 2,947 75 53 72 83 485 610 133 262 332	504 202 9,886 481 17 1,206 7,646 3,573 402 328 176 34 25 14,861 3,191 646 220 659 303 2,868 2,712 57 1,415 206	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604 552 1,023 542 4,547 4,721 357 3,863 1,028
SIMO SIMO Total	DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL CDMXALAL CDMXALAL CPLABF CPLABMG		15 2,187 1 244 131 28 338 119 197 292 416 3 ,769 57 127 144 35 215 229 0 96 5 5 792	363 20 2 189 4 86 264 928 17 6 0 0 1 5 5	375 225 10,065 3 510 96 3 3 1,675 288 601 448 374 3,998 826 136 142 120 977 1,164 167 2,084	367 27 4,667 6 188 26 942 114 1,372 150 145 2,947 75 53 72 83 485 610 133 262 332 630	504 202 9,886 481 17 1,206 7,646 3,573 402 328 176 34 25 14,861 3,191 646 220 659 303 2,868 2,712 57 1,415 206 1,025	1,408 1,897 468 26,979 481 28 2,511 1,989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604 4,522 4,547 4,721 3,763 3,763 1,028 3,763 1,028 3,636
SIMO SIMO Total	CCOMPALAL CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL CCWALAL CCWALAL CCMPALAL CDMXALAL CDMXALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL		15 2,187 1 244 131 28 338 338 119 197 292 416 3 ,769 57 127 144 35 215 229 0 96 5	363 20 2 189 4 86 264 928 177 6 0 0 1 5	375 225 10,065 3 510 96 3 1,675 288 601 448 374 3,998 826 136 142 120 977 1,164 167 2,084 485	367 27 4,667 6 188 26 4 942 114 1,372 150 145 2,947 75 53 72 83 485 610 133 262 332	504 202 9,886 481 17 1,206 7,646 3,573 402 328 176 34 25 14,861 3,191 646 220 659 303 2,868 2,712 57 1,415 206	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604 552 1,023 542 4,547 4,721 357 3,863 1,028
SIMO SIMO Total	DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL CDMXALAL CDMXALAL CPLABF CPLABMG	1	15 2,187 1 244 131 28 338 119 197 292 416 3 ,769 57 127 144 35 215 229 0 96 5 5 792	363 20 2 189 4 86 264 928 177 6 0 0 1 5	375 225 10,065 3 510 96 3 1,675 288 601 448 374 3,998 826 136 142 120 977 1,164 167 2,084 488 747	367 27 4,667 6 188 26 942 114 1,372 150 145 2,947 75 53 72 83 485 610 133 262 332 630	504 202 9,886 481 17 1,206 7,646 3,573 402 328 176 34 25 14,861 3,191 646 220 659 303 2,868 2,712 57 1,415 206 1,025	1,408 1,897 468 26,979 481 28 2,511 989 292 10,790 4,099 2,572 1,305 1,374 34 28 24,504 3,191 1,604 552 1,023 542 4,547 4,721 3,636 1,028 3,636 1,865 26,930

Table 8-6: Net Landbase Seral Stage Distribution at Year 100

Sum of Area		SeralState	1					
Compartment	Strata	EOG		LOG	Mature	Regen	Young	Grand Total
BOLT	CCOMPALAL				1,389	352		1,741
	CDMXALAL					180	44	224
	CPLABF			0	141	578	485	1,204
	CPLABMG				639	145	222	1,006
	CPLABMGS				489	87	160	736
	CPLCDF		0	0	,	3,962	981	7,689
	CPLCDMG			0	1,463	1,679	354	3,496
	CSBALAL					443	244	687
	CSWALAL		259	322	,	952	239	3,733
	CSWALALS		324	405	15	351	686	1,781
	DCMXALAL					242	26	267
BOLT Total	Incompany of		582	728	8,844	8,970	3,441	22,564
DEEP	CCOMPALAL				1,508	284		1,792
	CDMXALAL		•		38	310	78	426
	CPLABF		0	0		1,409	2,750	4,485
	CPLABMG		0	0	1,182	474	878	2,534
	CPLABMGS		0	_	361	184	228	774
	CPLCDF		0	0	3,527	2,178	3,191	8,896
	CPLCDMG		0	0	3,346	2,125	1,489	6,961
	CSBALAL		0	0	0	1,841	1,992	3,832
	CSWALAL		33	33		109	231	475
	CSWALALS		85	160		95	194	537
	DAWALAL			2		2	8	130
DEED T : :	DCMXALAL		,	0	10	60	132	203
DEEP Total	CCOMPALAL	-	118	195	10,489	9,073	11,170	31,046
HUCK	CCOMPALAL				1	•	0	1
1	CDMXALAL			_	001	2	6	8
	CPLABF		•	0		913	2,233	3,378
	CPLABMG		0		228	114	562	903
	CPLABMGS		_	0	269	204	744	1,217
	CPLCDF		0	0	2,735	1,284	8,206	12,225
	CPLCDMG		0	0	1,045	625	1,596	3,266
	CSBALAL				0	291	491	783
	CSWALAL		204	101	5	464	609	1,384
	CSWALALS		551	211	0	424	761	1,948
LILION T-4-1	DCMXALAL		750	040	1.545	12	45.044	15
HUCK Total MUSK	CCOMPALAL		756	312	4,515 4	4,333	15,211	25,127 4
IVIUSK	CDMXALAL				71	151	160	382
	CPLABF		0		130	151 618	160 1,806	2,553
	CPLABI		0	0		587	644	2,503
	CPLABMGS		U	0	561	165	159	2,502 885
			0	0		425		
	CPLCDF		0	U	3,579		2,533	6,538
	CPLCDMG CSBALAL		U		2,260	1,470 432	1,477 529	5,208 962
			381	6	446	2,183	1,187	4,172
	CSWALAL			6	416	,		
	CSWALALS		282	51 136	52	542	481	1,408 1,897
	DAWALAL		7	0	463 33	541	749 207	1,697
MUSK Total	DCMXALAL		669	192	8,842	7,343	9,934	26,979
SIMO	CCOMPALAL		003	102	259	222	3,334	481
GIIVIO	CDMXALAL				7	3	17	28
	CPLABF		0	0		1,355	861	2,511
	CPLABMG		J	J	716	1,333	92	989
	CPLABMGS				256	32	4	292
	CPLCDF		0	0	5,212	3,568	2,011	10,790
	CPLCDMG		J	0		2,448	135	4,099
	CSBALAL		0	J	1,515	1,973	599	2,572
	CSWALAL		101	208		367	407	1,305
	CSWALAL		212	576		201	363	1,305
1	DAWALAL		212	310	23 34	201	303	34
1	DCMXALAL				0	12	16	28
SIMO Total	DOM/MILAL	<b>-</b>	313	783		10,362	4,505	24,504
SMOK	CCOMPALAL		010	, 55	1,931	1,260	7,000	3,191
	CDMXALAL			0		770	712	1,604
	CPLABF			J	51	334	167	552
	CPLABMG			0		175	189	1,023
	CPLABMGS			J	303	77	161	542
	CPLCDF		0	0		1,266	1,434	4,547
	CPLCDMG		0	0		1,494	934	4,721
	CSBALAL		0	J	_,_00	277	79	357
	CSWALAL		721	49	1,383	1,013	698	3,863
	CSWALALS		237	5		114	645	1,028
	DAWALAL		46	248		696	1,469	3,636
	DCMXALAL		0	10	109	1,155	600	1,865
SMOK Total			1,004	302		8,632	7,089	26,930
Grand Total			3,442	2,512		48,713	51,350	157,149
								,

Table 8-7: Net Landbase Seral Stage Distribution at Year 200

Sum of Area		SeralState						
Compartment	Strata	EOG	Ī	LOG		Regen	Young	Grand Total
BOLT	CCOMPALAL				17	347	1,377	1,741
	CDMXALAL		400		070	180	44	224
	CPLABF	1	128		872	000	204	1,204
	CPLABMG	1			0	220	785	1,006
	CPLABMGS	1			4.000	97 1.527	639	736
	CPLCDF CPLCDMG			0	4,089	, -	2,074	7,689
	CSBALAL			U	0 504	2,362	1,134	3,496
	CSWALAL				635	583	183	687
	CSWALALS				47	836	2,516 898	3,733 1,781
	DCMXALAL				47	249	18	267
BOLT Total	DCIVIXALAL		128	0	6,164	6,401	9.871	22,564
DEEP	CCOMPALAL		0	0	313	284	1,195	1,792
	CDMXALAL		·		010	312	114	426
	CPLABF		131	0	2,266	012	2,089	4,485
	CPLABMG		0	0	_,	538	1,997	2,534
	CPLABMGS			0		185	590	774
	CPLCDF		0	0	2,823	1,198	4,875	8,896
	CPLCDMG		0	0	0	3,847	3,114	6,961
	CSBALAL			0	2,641	0	1,191	3,832
	CSWALAL				87	174	213	475
	CSWALALS					161	376	537
	DAWALAL			110	13	2	6	130
	DCMXALAL		0	0		65	138	203
DEEP Total			131	110	8,143	6,764	15,898	31,046
HUCK	CCOMPALAL	l					1	1
	CDMXALAL					2	6	8
	CPLABF		262	0	1,628	0	1,488	3,378
	CPLABMG			0		190	713	903
	CPLABMGS			0		208	1,009	1,217
	CPLCDF		0	0	829	2,655	8,741	12,225
	CPLCDMG		0	0		986	2,280	3,266
	CSBALAL			0	607		175	783
	CSWALAL				170	766	447	1,384
	CSWALALS					1,035	913	1,948
LULOVE . I	DCMXALAL		000		0.005	12	3	15
HUCK Total	OCOMPALAI		262	0	3,235	5,854	15,776	25,127
MUSK	CCOMPALAL				0	404	4	4
	CDMXALAL		191	0	4 700	164	208 634	382
	CPLABF		191	0	1,728	064		2,553
	CPLABMG			0		964 171	1,538	2,502
	CPLABMGS CPLCDF			0	1,492		714	885
	CPLCDMG			0	1,492	1,023 1,993	4,023 3,215	6,538 5,208
	CSBALAL			U	872	1,993	3,213	962
	CSWALAL				815	2,446	910	4,172
	CSWALALS				013	934	474	1,408
	DAWALAL			24	542	375	955	1,897
	DCMXALAL			0	1	246	222	468
MUSK Total	JOHNALAL		191	24	5,459	8,317	12,988	26,979
SIMO	CCOMPALAL		1		19	222	240	481
1	CDMXALAL					3	25	28
	CPLABF	1	59	0	1,852	0	600	2,511
	CPLABMG	1		0	,,,	247	742	989
	CPLABMGS					32	260	292
	CPLCDF		0	0	4,969	1,881	3,940	10,790
	CPLCDMG			0		3,102	997	4,099
	CSBALAL			0	1,685	0	887	2,572
	CSWALAL				294	364	647	1,305
	COTTAL						925	1,374
	CSWALALS				110	339	323	
Ì	CSWALALS DAWALAL			34	110	339	923	34
	CSWALALS					12	16	28
SIMO Total	CSWALALS DAWALAL DCMXALAL		59	34	8,928	12 6,203	16 9,280	28 24,504
SIMO Total SMOK	CSWALALS DAWALAL DCMXALAL		59			12 6,203 1,225	16 9,280 1,547	28 24,504 3,191
	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL				8,928 419	12 6,203	16 9,280 1,547 737	28 24,504 3,191 1,604
	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF		59	34	8,928	12 6,203 1,225 867	9,280 1,547 737 180	28 24,504 3,191 1,604 552
	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG				8,928 419	12 6,203 1,225 867 292	9,280 1,547 737 180 731	28 24,504 3,191 1,604 552 1,023
	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS			34	8,928 419 368	12 6,203 1,225 867 292 131	16 9,280 1,547 737 180 731 410	28 24,504 3,191 1,604 552 1,023 542
	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF			0 0	8,928 419 368 1,551	12 6,203 1,225 867 292 131 644	16 9,280 1,547 737 180 731 410 2,352	28 24,504 3,191 1,604 552 1,023 542 4,547
	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG		4	34	8,928 419 368 1,551 0	12 6,203 1,225 867 292 131 644 2,551	16 9,280 1,547 737 180 731 410 2,352 2,170	28 24,504 3,191 1,604 552 1,023 542 4,547 4,721
	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL			0 0	8,928 419 368 1,551 0 317	12 6,203 1,225 867 292 131 644 2,551 0	16 9,280 1,547 737 180 731 410 2,352 2,170 37	28 24,504 3,191 1,604 552 1,023 542 4,547 4,721 357
	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL		4	0 0	8,928 419 368 1,551 0 317 750	12 6,203 1,225 867 292 131 644 2,551 0 1,000	16 9,280 1,547 737 180 731 410 2,352 2,170 37 2,114	28 24,504 3,191 1,604 552 1,023 542 4,547 4,721 357 3,863
	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS		3	0 0 0	8,928 419 368 1,551 0 317 750 17	12 6,203 1,225 867 292 131 644 2,551 0 1,000 499	16 9,280 1,547 737 180 731 410 2,352 2,170 37 2,114 512	28 24,504 3,191 1,604 552 1,023 542 4,547 4,721 357 3,863 1,028
	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS DAWALAL		4	34 0 0 0 353	8,928 419 368 1,551 0 317 750 17 957	12 6,203 1,225 867 292 131 644 2,551 0 1,000 499 821	16 9,280 1,547 737 180 731 410 2,352 2,170 37 2,114 512 1,505	28 24,504 3,191 1,604 552 1,023 542 4,547 4,721 357 3,863 1,028 3,636
SMOK	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS		3	34 0 0 0 353 0	8,928 419 368 1,551 0 317 750 17 957 0	12 6,203 1,225 867 292 131 644 2,551 0 1,000 499 821 1,293	16 9,280 1,547 737 180 731 410 2,352 2,170 37 2,114 512 1,505 571	28 24,504 3,191 1,604 552 1,023 542 4,547 4,721 357 3,863 1,028 3,636 1,865
	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS DAWALAL		3	34 0 0 0 353	8,928 419 368 1,551 0 317 750 17 957	12 6,203 1,225 867 292 131 644 2,551 0 1,000 499 821	16 9,280 1,547 737 180 731 410 2,352 2,170 37 2,114 512 1,505	28 24,504 3,191 1,604 552 1,023 542 4,547 4,721 357 3,863 1,028 3,636

Table 8-8: Gross Landbase Seral Stage Distribution at Year 0

Sum of Area		SeralState						
Compartment	Strata	EOG		LOG	Mature	Regen	Young	Grand Total
BOLT	CCOMPALAL					1,765		1,765
	CDMXALAL				76	187		263
	CPLABF		423	513	992		17	1,945
	CPLABMG		100	32	893		15	1,039
	CPLABMGS		24	1	755			781
	CPLCDF		140	1	3,115	4,458	124	7,837
	CPLCDMG		36	22	1,452	1,822	219	3,552
	CSBALAL		216		2,127	125	787	3,254
	CSWALAL		171		1,410	1,957	339	3,877
	CSWALALS		156		1,584		99	1,839
	DAWALAL						16	16
	DCMXALAL				22	239	10	272
BOLT Total			1,265	568	12,427	10,553	1,625	26,439
DEEP	CCOMPALAL					1,821		1,821
	CDMXALAL				188	266		454
	CPLABF		343	93	5,925		15	6,375
	CPLABMG		78	5	2,510		11	2,603
	CPLABMGS		36	5	765			805
	CPLCDF		5	30	6,474	2,496	106	9,112
	CPLCDMG				4,203	2,872	76	7,150
1	CSBALAL		326		11,253	304	2,649	14,532
	CSWALAL	1			609	63	16	688
1	CSWALALS		26		573			598
1	DAWALAL				38	111		149
1	DCMXALAL				170	25	36	232
DEEP Total	-		813	132	32,708	7,959	2,909	44,521
HUCK	CCOMPALAL				,	23	,	23
1	CDMXALAL				18		3	
1	CPLABF		1,452		4,736	2	97	6,287
	CPLABMG	1	46		1,047	_	40	
1	CPLABMGS		75		1,193		.0	1,268
	CPLCDF		536	12			838	12,950
	CPLCDMG		36		3,215		102	3,510
	CSBALAL		11		4,322	6	2,471	6,809
	CSWALAL				1,791	2	133	1,925
	CSWALALS		14		2,146	_		2,160
	DAWALAL				_,0		37	38
	DCMXALAL		4		1	1	30	36
HUCK Total			2,173	12	29,676	546	3,751	36,159
MUSK	CCOMPALAL		, -		-,	6	-, -	6
	CDMXALAL				338	1	283	623
	CPLABF		2		3,812	8	1,087	4,909
	CPLABMG		68		2,272	53	699	3,093
	CPLABMGS				985			985
	CPLCDF				6,152	154	868	7,174
	CPLCDMG		28		4,633		1,167	5,972
	CSBALAL		114		2,216		662	3,009
	CSWALAL				3,283		2,401	6,116
	CSWALALS				1,777		33	1,809
	DAWALAL		123		1,767		746	2,636
1	DCMXALAL		-		572	1	441	1,015
MUSK Total			335		27,807	818	8,388	37,347
SIMO	CCOMPALAL				,	492	-,0	492
1	CDMXALAL				35			35
1	CPLABF		387	666	2,804			3,858
	CPLABMG	1	152		901	2		1,054
	CPLABMGS	1	41		298	_		340
1	CPLCDF		290	198		4,273	40	
1	CPLCDMG		54	5			3	
1	CSBALAL		466	2			1,416	
1	CSWALAL		92	_	1,113		28	
	CSWALALS	1	236	33			_0	1,455
1	DAWALAL		_00		.,.50	34		34
1	DCMXALAL				21	9	4	35
SIMO Total	•		1,718	905	20,679	7,998	1,492	32,792
SMOK	CCOMPALAL				,	3,234	,	3,234
1	CDMXALAL				765		923	
			82		884		101	1,068
	CPLABF	1			899		122	
	CPLABF CPLABMG		94					,
	CPLABMG		94 57				9	559
	CPLABMG CPLABMGS		57		493		9	
	CPLABMG CPLABMGS CPLCDF		57 39		493 2,330	1,416	9 949	4,734
	CPLABMG CPLABMGS CPLCDF CPLCDMG		57		493 2,330 2,842	1,416 930	9 949 1,016	4,734 4,880
	CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL		57 39 92		493 2,330 2,842 587	1,416 930 11	9 949 1,016 331	4,734 4,880 930
	CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL		57 39		493 2,330 2,842 587 2,142	1,416 930 11 1,261	9 949 1,016 331 718	4,734 4,880 930 4,127
	CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS		57 39 92		493 2,330 2,842 587 2,142 1,039	1,416 930 11 1,261	9 949 1,016 331 718 36	4,734 4,880 930 4,127 1,075
	CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS DAWALAL		57 39 92		493 2,330 2,842 587 2,142 1,039 3,932	1,416 930 11 1,261	9 949 1,016 331 718 36 1,318	4,734 4,880 930 4,127 1,075 5,610
SMOK Total	CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS		57 39 92 7		493 2,330 2,842 587 2,142 1,039 3,932 743	1,416 930 11 1,261 360 392	9 949 1,016 331 718 36 1,318 1,235	4,734 4,880 930 4,127 1,075 5,610 2,370
SMOK Total Grand Total	CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS DAWALAL		57 39 92 7	1,617	493 2,330 2,842 587 2,142 1,039 3,932	1,416 930 11 1,261	9 949 1,016 331 718 36 1,318	4,734 4,880 930 4,127 1,075 5,610 2,370

Table 8-9: Gross Landbase Seral Stage Distribution at Year 10

Sum of Area		SeralState					
Compartment	Strata	EOG	LOG	Mature	Regen	Young	Grand Total
BOLT	CCOMPALAL				1,765		1,765
	CDMXALAL	4		72	152	35	263
	CPLABF	365	508	693	376	3	1,945
	CPLABMG	122	25	545	347		1,039
	CPLABMGS	11	1	453	316		781
	CPLCDF	342	1	1,999	4,037	1,458	7,837
	CPLCDMG	40	13	1,044	2,020	435	3,552
	CSBALAL	359	12	2,275	227	381	3,254
	CSWALAL	212		1,493	1,809	364	3,877
	CSWALALS	328		1,398	111	2	1,839
	DAWALAL			3		13	16
	DCMXALAL			22	145	104	272
BOLT Total		1,781	561	9,998	11,305	2,795	26,439
DEEP	CCOMPALAL	, .		-,	1,821	,	1,821
	CDMXALAL			149	305		454
	CPLABF	500	94	5,459	322		6,375
	CPLABMG	242	2	1,837	512	11	2,603
	CPLABMGS	45	5	647	108		805
	CPLCDF	137	10	5,331	3,561	72	9,112
	CPLCDMG	55		3,082	3,933	81	7,150
	CSBALAL	349	4	11,678	691	1,809	14,532
	CSWALAL	21	4	568	83	1,809	14,532
	CSWALAL	34	2	552	11	10	598
1	DAWALAL	34	2	29	120		149
1	DCMXALAL	ĺ		29 196	36		232
DEED Total	DOWNALAL	4 200	117			1 000	
DEEP Total	CCOMPALAL	1,383	117	29,530	11,503	1,989	44,521
HUCK	COMPALAL	_		40	23	^	23
1	-	1 752		16 4.222	205	3 17	21
1	CPLABF CPLABMG	1,753		,	295	17	6,287
1	CPLABMG CPLABMGS	58 75		965	109 127		1,133
			40	1,066		000	1,268
	CPLCDF	683	12	10,681	1,346	228	12,950
	CPLCDMG	56		2,976	475	2	3,510
	CSBALAL	137		4,555	30	2,088	6,809
	CSWALAL	51	_	1,774	4	96	1,925
	CSWALALS	45	2	2,055	57		2,160
	DAWALAL			6		32	38
	DCMXALAL	4		4	1	28	36
HUCK Total	Incompany of	2,862	14	28,321	2,468	2,493	36,159
MUSK	CCOMPALAL				6		6
	CDMXALAL			364	59	199	623
İ		_					
	CPLABF	7		3,904	281	717	4,909
	CPLABF CPLABMG	99		3,904 1,688	281 608		4,909 3,093
	CPLABF CPLABMG CPLABMGS			3,904	281	717 698	4,909 3,093 985
	CPLABF CPLABMG CPLABMGS CPLCDF	99 6		3,904 1,688	281 608	717	4,909 3,093
	CPLABF CPLABMG CPLABMGS	99		3,904 1,688 803	281 608 176	717 698	4,909 3,093 985
	CPLABF CPLABMG CPLABMGS CPLCDF	99 6		3,904 1,688 803 4,870	281 608 176 2,023	717 698 281	4,909 3,093 985 7,174
	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG	99 6 15		3,904 1,688 803 4,870 3,837	281 608 176 2,023 1,257	717 698 281 864	4,909 3,093 985 7,174 5,972
	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL	99 6 15		3,904 1,688 803 4,870 3,837 2,370	281 608 176 2,023 1,257 158	717 698 281 864 366	4,909 3,093 985 7,174 5,972 3,009
	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL	99 6 15 114		3,904 1,688 803 4,870 3,837 2,370 3,874	281 608 176 2,023 1,257 158 339	717 698 281 864 366 1,903	4,909 3,093 985 7,174 5,972 3,009 6,116
	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS	99 6 15 114 3		3,904 1,688 803 4,870 3,837 2,370 3,874 1,726	281 608 176 2,023 1,257 158 339 75	717 698 281 864 366 1,903	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809
MUSK Total	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS DAWALAL	99 6 15 114 3		3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646	281 608 176 2,023 1,257 158 339 75 172	717 698 281 864 366 1,903 5	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636
MUSK Total SIMO	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS DAWALAL	99 6 15 114 3 123		3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622	281 608 176 2,023 1,257 158 339 75 172	717 698 281 864 366 1,903 5 695 392	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015
	CPLABF CPLABMGS CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DAWALAL	99 6 15 114 3 123		3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622	281 608 176 2,023 1,257 158 339 75 172 1	717 698 281 864 366 1,903 5 695 392	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347
	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL DAWALAL DCMXALAL	99 6 15 114 3 123	686	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704	281 608 176 2,023 1,257 158 339 75 172 1 5,156	717 698 281 864 366 1,903 5 695 392	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347
	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CDMXALAL	99 6 15 114 3 123	686 1	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 7	717 698 281 864 366 1,903 5 695 392	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492
	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CCOMPALAL CPLABF	99 6 15 114 3 123 368		3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 7	717 698 281 864 366 1,903 5 695 392	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858
	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG	99 6 15 114 3 123 368 560 241		3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704 28 1,889 427	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 7 722 385 149	717 698 281 864 366 1,903 5 695 392	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340
	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPL	99 6 15 114 3 123 368 560 241 72	1	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704 28 1,889 427 119	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 7 722 385	717 698 281 864 366 1,903 5 695 392 6,119	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340
	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF	99 6 15 114 3 123 368 560 241 72 344	1 97	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704 28 1,889 427 1119 4,562	281 608 176 2,023 1,257 158 339 7172 1 5,156 492 722 385 149 5,940 3,113	717 698 281 864 366 1,903 5 695 392 6,119	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224
	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CDMXALAL CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG	99 6 15 114 3 123 368 560 241 72 344 56	1 97 4	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 622 25,704 28 1,889 427 119 4,562 963	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 385 149 5,940 3,113 775	717 698 281 864 366 1,903 5 695 392 6,119	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607
	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CPLABF CPLABMG CPLABMG CPLABMG CPLCDMG CSBALAL CSWALAL	99 6 15 114 3 123 368 560 241 72 344 56 607	97 4 2	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704 28 1,889 427 119 4,562 963 6,033 968	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 7 722 385 5,940 3,113 775 310	717 698 281 864 366 1,903 5 695 392 6,119	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442
	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABMG CPLABMG CPLABMG CPLCDF CPLCDF CPLCDMG CSBALAL	99 6 15 114 3 123 368 560 241 72 344 56 607	1 97 4	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704 28 1,889 427 119 4,562 963 6,033	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 2,385 149 5,940 3,113 775 310	717 698 281 864 366 1,903 5 695 392 6,119	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455
	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL CSWALAL CSWALAL DCMXALAL	99 6 15 114 3 123 368 560 241 72 344 56 607	97 4 2	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704 28 1,889 427 119 4,562 963 6,033 968 958	281 608 176 2,023 1,257 158 339 7172 1 5,156 492 385 149 5,940 3,113 775 310 135 34	717 698 281 864 366 1,903 5 695 392 6,119	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455
	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL CCMPALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CSWALAL CSWALAL CSWALAL CSWALAL CSWALAL CSWALAL	99 6 15 114 3 123 368 560 241 72 344 56 607	97 4 2	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704 28 1,889 427 119 4,562 963 6,033 968 958	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 2,385 149 5,940 3,113 775 310	717 698 281 864 366 1,903 5 695 392 6,119 275 88 1,190 26	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 344 35
SIMO	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL CSWALAL CSWALAL DCMXALAL	99 6 15 114 3 123 368 560 241 72 344 56 607 138 329	97 4 2 33	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704 28 1,889 427 119 4,562 963 6,033 968 958	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 7 7 722 385 149 5,940 3,113 775 310 135 34 5	717 698 281 864 366 1,903 5 695 392 6,119 275 88 1,190 26	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792
SIMO SIMO Total	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL  CCOMPALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLODG CSBALAL CSWALAL CSWALAL	99 6 15 114 3 123 368 560 241 72 344 56 607 138 329	97 4 2 33	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704 28 1,889 427 119 4,562 963 6,033 968 958	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 2,385 149 5,940 3,113 775 310 135 34 5	717 698 281 864 366 1,903 5 695 392 6,119 275 88 1,190 26	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 344 35 32,792 3,234
SIMO SIMO Total	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL CCOMPALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDF CPLCDF CPLCDF CPLCDF CPLCDF CPLCDBG CSBALAL CSWALAL CSWALAL DCMXALAL CCOMPALAL	99 6 15 114 3 123 368 560 241 72 344 56 607 138 329	97 4 2 33	3,904 1,688 803 4,870 3,837 2,370 1,726 1,646 622 25,704 28 1,889 427 119 4,562 963 6,033 968 958 21 15,968	281 608 176 2,023 1,257 158 339 75 172 5,156 492 7 7 722 385 149 5,940 3,113 775 310 135 34 5	717 698 281 864 366 1,903 5 695 392 6,119 275 88 1,190 26 8 1,587	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980
SIMO SIMO Total	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL  CCOMPALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL CSWALAL CSWALAL CCOMPALAL CCOMPALAL CCOMPALAL CCOMPALAL CCOMPALAL CCOMPALAL CCMXALAL CPLABF CCOMPALAL CPLABF CCMXALAL CPLABF	99 6 15 114 3 123 368 560 241 72 344 56 607 138 329	1 97 4 2 33 823	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704  28 1,889 427 119 4,562 963 6,033 968 958 21 15,968  779 780	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 7 7 722 385 149 5,940 3,113 775 310 135 34 5	717 698 281 864 366 1,903 5 695 392 6,119 275 88 1,190 26 8 1,587 875 26	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068
SIMO SIMO Total	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL  CCOMPALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL COMYALAL COMYALAL COMYALAL COMYALAL COMYALAL CSWALAL CSWALAL CSWALAL CSWALAL COMYALAL CCOMPALAL CDMXALAL CDMXALAL CDMXALAL CDMXALAL CPLABF CPLABMG CPLABMG	99 6 15 114 3 123 368 560 241 72 344 56 607 138 329 2,347	97 4 2 33	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704  28 1,889 427 119 4,562 963 6,033 968 958 21 15,968 779 780 619	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 7 7 722 385 5,940 3,113 775 310 135 34 5,212 12,067 3,234	717 698 281 864 366 1,903 5 695 392 6,119 275 88 1,190 26 8 1,587	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115
SIMO SIMO Total	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL  CCOMPALAL CPLABF CPLABMG CPLCDF CPLCDMG CSBALAL CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CSWALAL CCMXALAL CCMXALAL CDMXALAL CPLABF CPLABMG	99 6 15 114 3 123 368 560 241 72 344 56 607 138 329 2,347	1 97 4 2 33 823	3,904 1,688 803 4,870 3,837 2,370 1,726 1,646 622 25,704 28 1,889 427 119 4,562 963 6,033 968 958 21 15,968	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 2,385 149 5,940 3,113 775 310 135 34 5 12,067 3,234 326 169 427	717 698 281 864 366 1,903 5 695 392 6,119 275 88 1,190 26 8 1,587 875 26 30	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559
SIMO SIMO Total	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL CSWALAL CSWALAL CCOMPALAL COMPALAL COMPALAL CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMALAL CCOMPALAL CCMPALAL CCMPALAL CCMPALAL CCMPALAL CPLABMG	99 6 15 114 3 123 368 560 241 72 344 56 607 138 329 2,347	1 97 4 2 33 823	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704  28 1,889 427 119 4,562 963 6,033 968 958  21 15,968  779 780 619 430 1,534	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 7 7 722 385 149 5,940 3,113 310 135 34 5 12,067 3,234 6 169 427 128 187 187	717 698 281 864 366 1,903 5 695 392 6,119 275 88 1,190 26 8 1,587 875 26 30	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34,35 32,792 3,234 1,980 1,068 1,115 559 4,734
SIMO SIMO Total	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL  CCOMPALAL CPLABMG CPLABMG CPLABMG CPLABMG CPLCDMG CSBALAL CSWALAL CSWALAL COMXALAL CPLABMG CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL CSWALAL CSWALAL CSWALAL CSWALAL CDMXALAL CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG	99 6 15 114 3 123 368 560 241 72 344 56 607 138 329 2,347	1 97 4 2 33 823	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704  28 1,889 427 119 4,562 963 6,033 968 958 21 15,968  779 780 619 430 1,534 2,338	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 7 7 722 385 149 5,940 3,113 775 310 135 34 5 12,067 3,234 3,234 4,27 128 1,28 1,29 1,29 1,29 1,29 1,29 1,29 1,29 1,29	717 698 281 864 366 1,903 5 695 392 6,119 275 8 1,190 26 8 1,587 26 30 1,285	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 1,455 34 1,455 34 1,980 1,068 1,115 559 4,734 4,880
SIMO SIMO Total	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL CCOMPALAL CPLABM CPLABMG CPLABMG CPLABMG CPLABMG CPLCDMG CSBALAL CSWALAL COMYALAL COMYALAL COMYALAL CPLABM CPLABMG CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL CCOMPALAL CDMXALAL CDMXALAL CDMXALAL CDMXALAL CDMXALAL CDLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDMG CSBALAL CSWALAL CCOMPALAL CDMXALAL CDMXALAL CDMXALAL CDLABMG CPLABMG CPLCDMG CSBALAL CSBALAL	99 6 15 114 3 123 368 560 241 72 344 56 607 138 329 2,347	1 97 4 2 33 823	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704  28 1,889 427 119 4,562 963 6,033 968 958  21 15,968  779 780 619 430 1,534 2,338 701	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 7 722 385 5,940 3,113 775 310 135 34 5 12,067 3,234 12,067 128 1,876 2,276 1,876 2,276 5,476 5,476 5,476 1,876 5,476 1,876 5,476 5,476 1,876 5,476	717 698 281 864 366 1,903 5 695 392 6,119 275 88 1,190 26 8 1,587 875 26 30 1,285 1,285	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559 4,734 4,880 930
SIMO SIMO Total	CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL CSWALAL CSWALAL CCMPALAL CDMXALAL CCMPALAL CSWALAL CCMPALAL CCMPALAL CCMPALAL CCMPALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CSBALAL CCMPALAL CDMXALAL CCMPALAL CDMXALAL CPLABF CPLABMG CSBALAL CSWALAL CSWALAL CSWALAL	99 6 15 114 3 123 368 560 241 72 344 56 607 138 329 2,347	1 97 4 2 33 823	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704  28 1,889 427 119 4,562 963 6,033 968 958 21 15,968  779 780 619 430 1,534 2,338 701 2,165	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 7 722 385 149 5,940 3,113 775 310 135 34 5 12,067 3,234 427 1,287 1,2	717 698 281 864 366 1,903 5 695 392 6,119 275 88 1,190 26 8 1,587 875 26 30 1,285 186 175 558	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559 4,734 4,880 930 4,127
SIMO SIMO Total	CPLABF CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL CCOMPALAL CPLABM CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL CCMXALAL CCMXALAL CCMXALAL CCDMSALAL CCDMSALAL CPLABMG CSWALAL	99 6 15 114 3 123 368 560 241 72 344 56 607 138 329 2,347	1 97 4 2 33 823	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704  28 1,889 427 119 4,562 963 968 958  21 15,968  779 780 619 430 1,534 2,338 701 2,165 878	281 608 176 2,023 1,257 158 339 75 172 15,156 492 7 722 385 149 5,940 3,113 310 135 34 5 12,067 3,246 427 128 187 6 187 187 187 187 187 187 187 187 187 187	717 698 281 864 366 1,903 5 695 392 6,119 275 88 1,190 26 8 1,587 875 26 30 1,285 186 175 5	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34,35 32,792 3,234 1,980 1,068 1,115 559 4,734 4,880 930 4,127 1,075
SIMO SIMO Total	CPLABF CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL CDMXALAL CPLABF CPLABMG CSBALAL CSWALAL CSWALAL CSWALAL CSWALAL CSWALAL CDMXALAL CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL CSWALAL DAWALAL DAWALAL	99 6 15 114 3 123 368 560 241 72 344 56 607 138 329 2,347	1 97 4 2 33 823	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704  28 1,889 427 119 4,562 963 6,033 968 958 21 15,968  779 780 619 430 1,534 2,338 701 2,165 878 4,419	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 7 7 722 3855 149 5,940 3,113 775 310 135 34 427 12,067 3,234 3,234 4,27 128 1,876 2,276 5,41 1,417	717 698 281 864 366 1,903 5 695 392 6,119 275 88 1,190 26 8 1,587 26 30 1,285 186 175 538	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 1,980 1,068 1,115 559 4,734 4,880 930 4,127 1,075 5,610
SIMO Total SMOK	CPLABF CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL CCOMPALAL CPLABM CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL CCMXALAL CCMXALAL CCMXALAL CCDMSALAL CCDMSALAL CPLABMG CSWALAL	99 6 15 114 3 123 368 560 241 72 344 56 607 138 329 2,347	1 97 4 2 33 823 0	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704  28 1,889 427 119 4,562 963 6,033 968 958  719 780 619 430 1,534 2,338 701 2,165 878 4,419 847	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 7 722 385 349 5,940 3,113 775 310 135 34 12,067 3,234 12,067 128 1,876 2,276 54 1,417 1,876 2,276 1,417 1,876 2,141 1,417 1,876 1,417 1,876 1,417 1,417 1,876 1,417 1,417 1,876 1,417 1,417 1,417 1,417 1,876 1,417 1	717 698 281 864 366 1,903 5 695 392 6,119 275 88 1,190 26 30 1,285 138 175 538 17 538 1,101	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559 4,734 4,880 930 4,127 1,075 5,610 2,370
SIMO SIMO Total	CPLABF CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL CDMXALAL CPLABF CPLABMG CSBALAL CSWALAL CSWALAL CSWALAL CSWALAL CSWALAL CDMXALAL CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL CSWALAL DAWALAL DAWALAL	99 6 15 114 3 123 368 560 241 72 344 56 607 138 329 2,347	1 97 4 2 33 823 0	3,904 1,688 803 4,870 3,837 2,370 3,874 1,726 1,646 622 25,704  28 1,889 427 119 4,562 963 6,033 968 958 21 15,968  779 780 619 430 1,534 2,338 701 2,165 878 4,419	281 608 176 2,023 1,257 158 339 75 172 1 5,156 492 7 7 722 3855 149 5,940 3,113 775 310 135 34 427 12,067 3,234 3,234 4,27 128 1,876 2,276 5,41 1,417	717 698 281 864 366 1,903 5 695 392 6,119 275 88 1,190 26 8 1,587 26 30 1,285 186 175 538	4,909 3,093 985 7,174 5,972 3,009 6,116 1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 1,980 1,068 1,115 559 4,734 4,880 930 4,127 1,075 5,610

Table 8-10: Gross Landbase Seral Stage Distribution at Year 50

Compartment		SeralState	)					
oompartin <del>e</del> nt	Strata	EOG		LOG	Mature	Regen	Young	Grand Total
BOLT	CCOMPALAL						1,765	1,765
	CDMXALAL		25		7	28	203	263
	CPLABF		395	725	235	34	556	1,945
	CPLABMG		131	20	103	147	639	1,039
	CPLABMGS		133	0 131	16	143	489	781
	CPLCDF		272		566	533	6,335 2,763	7,837
	CPLCDMG CSBALAL		109 378	8 187	368 2,204	304 344	2,763	3,552 3,254
	CSWALAL		385	171	1,195	94	2,031	3,254
	CSWALALS		336	154	697	486	166	1,839
	DAWALAL		330	154	16	400	100	16
	DCMXALAL		0		14	8	250	272
BOLT Total	10011110112112		2,163	1,397	5,420	2,120	15,339	26,439
DEEP	CCOMPALAL						1,821	1,821
	CDMXALAL		43		31	18	363	454
	CPLABF		1,321	450	2,297	1,385	923	6,375
	CPLABMG		291	98	218	815	1,182	2,603
	CPLABMGS		110	18	88	228	361	805
	CPLCDF		352	77	1,239	2,636	4,808	9,112
	CPLCDMG		292	29	737	1,465	4,628	7,150
	CSBALAL	1	2,296	232	9,017	2,535	453	14,532
	CSWALAL	1	146		325	126	91	688
	CSWALALS	1	157	26	222	126	67	598
	DAWALAL		21		2	3	123	149
DEEP Total	DCMXALAL	<del>                                     </del>	32	000	36	87	76	232
	ICCOMPALAL		5,062	928	14,213	9,423	14,896	44,521
HUCK	CCOMPALAL CDMXALAL		2		13		23 6	23 21
	CPLABF		2,006	865	1,591	1,082	744	6,287
	CPLABMG		2,006	15	114	486	228	1,133
	CPLABMGS		203	24	36	735	269	1,168
	CPLCDF		1,347	115	3,176	5,356	2.956	12,950
	CPLCDMG		348	9	613	1,449	1,090	3,510
	CSBALAL		1,040	11	5,127	568	64	6,809
	CSWALAL		314		1,182	420	10	1,925
	CSWALALS	1	248	14	1,213	566	118	2,160
	DAWALAL		0		37			38
	DCMXALAL		1	4	28	3	1	36
HUCK Total			5,800	1,057	13,129	10,664	5,508	36,159
MUSK	CCOMPALAL						6	6
	CDMXALAL		64		399	2	158	623
	CPLABF		1,264	5	2,721	377	543	4,909
	CPLABMG		416	44	1,042	266	1,325	3,093
	CPLABMGS		156	0	134	134	561	985
	CPLCDF CPLCDMG		656 422	11	1,799	1,113	3,606 2,337	7,174
	CSBALAL		36	101	2,016 2,092	1,187 597	184	5,972
	CSWALAL		92	101	4,848	336	841	3,009
	CSWALALS	1	32					
1			72				-	6,116 1,809
I			72 927	123	1,375	262	100	1,809
	DAWALAL		927	123	1,375 709	262 367	100 510	1,809 2,636
MUSK Total				123	1,375	262	100 510 223	1,809 2,636 1,015
MUSK Total SIMO	DAWALAL		927 154		1,375 709 611	262 367 27	100 510	1,809 2,636
	DAWALAL DCMXALAL		927 154		1,375 709 611	262 367 27	100 510 223 10,393	1,809 2,636 1,015 37,347
	DAWALAL DCMXALAL CCOMPALAL		927 154 4,257		1,375 709 611 17,746	262 367 27 4,667	100 510 223 10,393 492	1,809 2,636 1,015 37,347 492
	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG		927 154 4,257 3 627 169	284	1,375 709 611 17,746 9 839 109	262 367 27 4,667 6 188 26	100 510 223 10,393 492 17 1,206 718	1,809 2,636 1,015 37,347 492 35 3,858 1,054
	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS		927 154 4,257 3 627 169 44	284 998 32 7	1,375 709 611 17,746 9 839 109 29	262 367 27 4,667 6 188 26 4	100 510 223 10,393 492 17 1,206 718 256	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340
	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF		927 154 4,257 3 627 169 44 424	284 998 32 7 227	1,375 709 611 17,746 9 839 109 29 1,904	262 367 27 4,667 6 188 26 4 942	100 510 223 10,393 492 17 1,206 718 256 7,720	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217
	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG		927 154 4,257 3 627 169 44 424 147	998 32 7 227 6	1,375 709 611 17,746 9 839 109 29 1,904 340	262 367 27 4,667 6 188 26 4 942 114	100 510 223 10,393 492 17 1,206 718 256 7,720 3,617	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224
	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL		927 154 4,257 3 627 169 44 424 147 1,957	998 32 7 227 6 390	1,375 709 611 17,746 9 839 109 29 1,904 340 4,479	262 367 27 4,667 6 188 26 4 942 114 1,372	100 510 223 10,393 492 17 1,206 718 256 7,720 3,617 410	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607
	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL		927 154 4,257 3 627 169 44 424 147 1,957 337	998 32 7 227 6 390 92	1,375 709 611 17,746 9 839 109 29 1,904 340 4,479 533	262 367 27 4,667 6 188 26 4 942 114 1,372 150	100 510 223 10,393 492 17 1,206 718 256 7,720 3,617 410 331	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442
	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS		927 154 4,257 3 627 169 44 424 147 1,957	998 32 7 227 6 390	1,375 709 611 17,746 9 839 109 29 1,904 340 4,479	262 367 27 4,667 6 188 26 4 942 114 1,372	100 510 223 10,393 492 17 1,206 718 256 7,720 3,617 410 331 176	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455
	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DAWALAL		927 154 4,257 3 627 169 44 424 147 1,957 337 443	998 32 7 227 6 390 92	1,375 709 611 17,746 9 839 109 29 1,904 340 4,479 533 422	262 367 27 4,667 6 188 26 4 942 114 1,372 150	100 510 223 10,393 492 17 1,206 718 256 7,720 3,617 410 331 176 34	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455
SIMO	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS		927 154 4,257 3 627 169 44 424 147 1,957 337 443	998 32 7 227 6 390 92 270	1,375 709 611 17,746 9 839 109 29 1,904 340 4,479 533 422	262 367 27 4,667 6 188 26 4 942 114 1,372 150 145	100 510 223 10,393 492 17 1,206 718 256 7,720 3,617 410 331 176 34 25	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34
SIMO SIMO Total	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL		927 154 4,257 3 627 169 44 424 147 1,957 337 443	998 32 7 227 6 390 92	1,375 709 611 17,746 9 839 109 29 1,904 340 4,479 533 422	262 367 27 4,667 6 188 26 4 942 114 1,372 150	100 510 223 10,393 492 17 1,206 718 256 7,720 3,617 410 331 176 331 176 25 15,000	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792
SIMO	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL CSWALALS DAWALAL DCMXALAL		927 154 4,257 3 627 169 44 424 147 1,957 337 443 3 4,154	998 32 7 227 6 390 92 270	1,375 709 611 17,746 9 839 109 29 1,904 340 4,479 533 422 6 8,669	262 367 27 4,667 6 188 26 4 942 114 1,372 150 145	100 510 223 10,393 492 17 1,206 7,18 256 7,720 3,617 410 331 176 34 25 15,000	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792
SIMO SIMO Total	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CDMXALAL		927 154 4,257 3 627 169 44 424 147 1,957 337 443 3 4,154	998 32 7 227 6 390 92 270	1,375 709 611 17,746 9 839 109 29 1,904 340 4,479 533 422 6 8,669	262 367 27 4,667 6 188 26 4 942 114 1,372 150 145	100 510 223 10,393 492 17 1,206 7,720 3,617 410 331 176 34 25 15,000 3,234 652	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980
SIMO SIMO Total	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF		927 154 4,257 3 627 169 44 424 147 1,957 337 443 4,154 276 384	284  998 32 7 227 6 390 92 270  2,022 0 87	1,375 709 611 17,746 9 839 109 29 1,904 340 4,479 533 422 6 8,669	262 367 27 4,667 6 188 26 4 942 114 1,372 150 145 2,947	100 510 223 10,393 492 17 1,206 7,720 3,617 410 331 176 34 25 15,000 3,234 652 220	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068
SIMO SIMO Total	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG		927 154 4,257 3 627 169 44 424 147 1,957 337 443 3 4,154	284 998 32 7 227 6 390 92 270 2,022 0 87 6	1,375 709 611 17,746 9 839 109 29 1,904 340 4,479 533 422 6 8,669 978 324 221	262 367 27 4,667 6 188 26 4 942 114 1,372 150 145 2,947 75 53	100 510 223 10,393 492 17 1,206 7,720 3,617 410 331 176 34 25 15,000 3,234 652 220 659	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115
SIMO SIMO Total	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS DAWALAL DCMXALAL CCMPALAL CDMXALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMGS		927 154 4,257 3 627 169 44 424 147 1,957 337 443 276 384 156 40	284  998 32 7 227 6 390 92 270  2,022  0 87 6 1	1,375 709 611 17,746 9 839 109 29 1,904 340 4,479 533 422 6 8,669 978 324 221 132	262 367 27 4,667 6 188 266 4 942 114 1,372 150 145 2,947 75 5 3 72 83	100 510 510 10,393 492 17 1,206 7,720 3,617 410 331 176 34 25 15,000 3,234 652 220 659 303	1,809 2,636 1,015 37,347 492 3,5 3,858 1,054 340 11,217 4,224 8,607 1,445 34 35 32,792 3,234 1,980 1,068 1,115 559
SIMO SIMO Total	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CCMPALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF		927 154 4,257 3 627 169 44 424 147 1,957 33 4,154 276 384 156 40 286	284  998 32 7 227 6 390 92 270  2,022  0 87 6 1 4	1,375 709 611 17,746 9 839 109 29 1,904 4,479 533 422 6 8,669 978 324 221 132 1,045	262 367 267 4,667 6 188 266 4 942 114 1,372 150 145 2,947 75 53 72 83 485	100 510 223 10,393 492 17 1,206 7,720 3,617 410 331 176 34 25 15,000 3,234 652 220 659 303 2,913	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559 4,734
SIMO SIMO Total	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLADF CPLCDMG		927 154 4,257 3 627 169 44 424 147 1,957 337 443 276 384 156 40 286 6278	284  998 32 7 227 6 390 92 270  2,022  0 87 6 1	1,375 709 611 17,746 9 839 109 29 1,904 340 4,479 533 422 6 8,669 978 324 221 132 1,045 1,254	262 367 27 4,667 6 188 26 4 942 114 1,372 150 145 2,947 75 53 72 83 485 610	100 510 223 10,393 492 17 1,206 7,720 3,617 410 331 176 325 15,000 3,234 652 220 659 3,03 2,913 2,724	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559 4,734 4,880
SIMO SIMO Total	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL		927 154 4,257 3 627 169 44 424 147 1,957 337 443 276 384 156 40 286 278 10	284  998 32 7 227 6 390 92 270  2,022  0 87 6 1 4 13	1,375 709 611 17,746 9 839 109 29 1,904 340 4,479 533 422 6 8,669 978 324 221 132 1,045 1,254 730	262 367 27 4,667 6 188 26 4 942 114 1,372 150 145 2,947 75 53 72 83 485 610 133	100 510 223 10,393 492 17 1,206 7,720 3,617 410 331 176 34 25 15,000 3,234 652 220 659 303 2,913 2,724 57	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559 4,734 4,880 930
SIMO SIMO Total	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL CCMPALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL		927 154 4,257 3 627 169 44 424 147 1,957 337 443 276 384 156 40 286 6278	284  998 32 7 227 6 390 92 270  2,022  0 87 6 1 4	1,375 709 611 17,746 9 839 109 29 1,904 4,479 533 422 6 8,669 978 324 221 1,045 1,254 730 2,328	262 367 27 4,667 6 188 26 4 942 114 1,372 150 145 2,947 75 53 72 83 485 610 133 262	100 510 223 10,393 492 17 1,206 7,720 3,617 410 331 176 34 25 15,000 3,24 652 220 659 303 2,913 2,724 1,426	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559 4,734 4,880 930 4,127
SIMO SIMO Total	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL CDMXALAL CDMXALAL CDMXALAL CDMXALAL CPLABF CPLABMG CSWALAL CSWALAL		927 154 4,257 3 627 169 44 424 147 1,957 337 443 3 4,154 276 384 156 40 286 278 10 105 7	284 998 32 7 227 6 390 92 270 2,022 0 87 6 1 4 13	1,375 709 611 17,746 9 839 109 29 1,904 4,479 533 422 6 8,669 978 324 221 1,045 1,254 730 2,328 530	262 367 27 4,667 6 188 266 4 942 114 1,372 150 145 2,947 75 33 72 83 485 610 133 262 2332	100 510 223 10,393 492 17 1,206 7,720 3,617 410 331 176 25 15,000 3,234 652 220 659 303 2,913 2,724 57 1,426 206	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,990 1,068 1,115 559 4,734 4,880 930 4,127 1,075
SIMO SIMO Total	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL CCMPALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL		927 154 4,257 3 627 169 44 424 147 1,957 337 443 276 384 156 40 286 278 10 10 10 10 10 10 10 10 10 10	284  998 32 7 227 6 390 92 270  2,022  0 87 6 1 4 13	1,375 709 611 17,746  9 839 109 29 1,904 340 4,479 533 422 6 8,669  978 324 221 132 1,045 1,254 730 2,328 530 1,525	262 367 27 4,667 6 188 26 4 942 114 1,372 150 145 2,947 75 53 72 83 485 610 133 262	100 510 223 10,393 492 17 1,206 7,720 3,617 410 331 176 34 25 15,000 3,24 652 220 659 303 2,913 2,724 1,426	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559 4,734 4,880 930 4,127
SIMO SIMO Total	DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL CSWALAL CSWALAL DAWALAL		927 154 4,257 3 627 169 44 424 147 1,957 337 443 3 4,154 276 384 156 40 286 40 287 105 105 105 105 105 105 105 105	284 998 32 7 227 6 390 92 270 2,022 0 87 6 1 4 13	1,375 709 611 17,746 9 839 109 29 1,904 4,479 533 422 6 8,669 978 324 221 1,045 1,254 730 2,328 530	262 367 27 4,667 6 188 266 4 942 1144 1,372 150 145 53 72 83 485 610 133 262 332 630	100 510 223 10,393 492 17 1,206 7,720 3,617 410 331 176 25 15,000 3,234 652 220 659 303 2,913 2,724 57 1,426 206 1,038	1,809 2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559 4,734 4,880 930 4,127 1,075 5,610

Table 8-11: Gross Landbase Seral Stage Distribution at Year 100

Sum of Area		SeralState					
Compartment	Strata	EOG	LOG	Mature	Regen	Young	Grand Total
BOLT	CCOMPALAL			1,413	352		1,765
	CDMXALAL	1	20	18	180	44	263
	CPLABF	114	599	141	606	485	1,945
	CPLABMG	13	21	639	145	222	1,039
	CPLABMGS	8 24	37	489	87	160	781
	CPLCDF CPLCDMG	14	63 21	2,808 1.483	3,962 1,679	981 354	7,837 3,552
	CSBALAL	1,485	418	544	563	354 245	3,352
	CSWALAL	295	364	2,028	952	239	3,877
	CSWALALS	347	428	2,020	351	686	1,839
	DAWALAL	16	.20			000	16
	DCMXALAL	0	0	4	242	26	272
BOLT Total		2,317	1,970	9,592	9,118	3,442	26,439
DEEP	CCOMPALAL			1,538	284		1,821
	CDMXALAL	5	19	43	310	78	454
	CPLABF	1,044	846	326	1,409	2,750	6,375
	CPLABMG	30	39	1,182	474	878	2,603
	CPLABMGS	16	15	361	184	228	805
	CPLCDF	123	50	3,570	2,178	3,191	9,112
	CPLCDMG	91	40	3,404	2,125	1,489	7,150
	CSBALAL	6,929	2,144	1,514	1,950	1,995	14,532
	CSWALAL	158	107	83	109	231	688
	CSWALALS	132	173	120	96	194	598
	DAWALAL	40	19 9	120	2 60	133	149
DEEP Total	DCMXALAL	19 8,548	3,463	11 12,154	9,183	132 11,173	232 44,521
HUCK	CCOMPALAL	0,340	3,403	23	9,103	11,173	23
1.001	CDMXALAL	11	2	23	2	6	23
	CPLABF	661	2,247	233	913	2,233	6,287
	CPLABMG	61	168	228	114	562	1,133
	CPLABMGS	19	32	269	204	744	1,268
	CPLCDF	383	336	2,741	1,284	8,206	12,950
	CPLCDMG	158	78	1,053	625	1,596	3,510
	CSBALAL	3,242	811	1,965	300	491	6,809
	CSWALAL	470	248	134	464	609	1,925
	CSWALALS	706	245	23	424	761	2,160
	DAWALAL	37	0				38
	DCMXALAL	11	5	6	12	3	36
HUCK Total		5,757	4,174	6,675	4,341	15,211	36,159
MUSK	CCOMPALAL			6			6
	CDMXALAL	184	55	72	151	160	623
	CPLABF	1,092	1,014	379	618	1,806	4,909
	CPLABMG	101	66	1,694	587	644	3,093
	CPLABMGS	44	56	561	165	159	985
	CPLCDF CPLCDMG	281 471	333 175	3,602	425	2,533 1,477	7,174
	CSBALAL	1,394	27	2,379 526	1,470 533	529	5,972 3,009
	CSWALAL	955	86	1,705	2,183	1,187	6,116
			00				0,110
			72	97	542	481	1 809
	CSWALALS	617	72 632	97 471	542 541	481 749	1,809 2,636
	CSWALALS DAWALAL	617 242	632	471	541	749	2,636
MUSK Total	CSWALALS	617		471 64			
MUSK Total SIMO	CSWALALS DAWALAL	617 242 366	632 149	471	541 228	749 207	2,636 1,015
	CSWALALS DAWALAL DCMXALAL	617 242 366	632 149	471 64 11,558	541 228 7,443	749 207	2,636 1,015 37,347
	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF	617 242 366 5,748	632 149 2,664	471 64 11,558 269	541 228 7,443 222	749 207 9,934	2,636 1,015 37,347 492
	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG	617 242 366 5,748 6 296 14	632 149 2,664 2 839 51	471 64 11,558 269 7	541 228 7,443 222 3 1,567 181	749 207 9,934 17 861 92	2,636 1,015 37,347 492 35 3,858 1,054
	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS	617 242 366 5,748 6 296 14 26	632 149 2,664 2 839 51 21	471 64 11,558 269 7 295 717 256	541 228 7,443 222 3 1,567 181 32	749 207 9,934 17 861 92 4	2,636 1,015 37,347 492 35 3,858 1,054 340
	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF	617 242 366 5,748 6 296 14 26 194	632 149 2,664 2 839 51 21 158	471 64 11,558 269 7 295 717 256 5,286	541 228 7,443 222 3 1,567 181 32 3,568	749 207 9,934 17 861 92 4 2,011	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217
	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG	617 242 366 5,748 6 296 14 26 194 52	632 149 2,664 2 839 51 21 158 29	471 64 11,558 269 7 295 717 256 5,286 1,559	541 228 7,443 222 3 1,567 181 32 3,568 2,448	749 207 9,934 17 861 92 4 2,011 135	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224
	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDF CPLCDMG CSBALAL	617 242 366 5,748 6 296 14 26 194 52 3,395	632 149 2,664 2 839 51 21 158 29 1,657	471 64 11,558 269 7 295 717 256 5,286 1,559 899	541 228 7,443 222 3 1,567 181 32 3,568 2,448 2,051	749 207 9,934 17 861 92 4 2,011 135 606	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607
	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL	617 242 366 5,748 6 296 14 26 194 52 3,395	632 149 2,664 2 839 51 21 158 29 1,657 255	471 64 11,558 269 7 295 717 256 5,286 1,559 899 261	541 228 7,443 222 3 1,567 181 32 3,568 2,448 2,051 370	749 207 9,934 17 861 92 4 2,011 135 606 407	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442
	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS	617 242 366 5,748 6 296 14 26 194 52 3,395	632 149 2,664 2 839 51 21 158 29 1,657	471 64 11,558 269 7 295 717 256 5,286 1,559 899 261 33	541 228 7,443 222 3 1,567 181 32 3,568 2,448 2,051	749 207 9,934 17 861 92 4 2,011 135 606	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455
	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DAWALAL DAWALAL	617 242 366 5,748 6 296 14 26 194 52 3,395 150 250	632 149 2,664 2 839 51 21 158 29 1,657 255 608	471 64 11,558 269 7 7 295 717 256 5,286 1,559 899 261 33 34	541 228 7,443 222 3 1,567 181 32 3,568 2,448 2,051 370 201	749 207 9,934 17 861 92 4 2,011 135 606 407 363	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455
SIMO	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS	617 242 366 5,748 6 296 14 26 194 52 3,395 150 250	632 149 2,664 2 839 51 21 158 29 1,657 255 608	471 64 11,558 269 7 295 717 256 5,286 1,559 899 261 33 34 4	541 228 7,443 222 3 1,567 181 32 3,568 2,448 2,051 370 201	749 207 9,934 17 861 92 4 2,011 135 606 407 363	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DAWALAL DCMXALAL	617 242 366 5,748 6 296 14 26 194 52 3,395 150 250	632 149 2,664 2 839 51 21 158 29 1,657 255 608	471 64 11,558 269 717 256 5,286 1,559 899 261 33 34 4	541 228 7,443 222 3 1,567 181 32 3,568 2,448 2,051 370 201 12	749 207 9,934 17 861 92 4 2,011 135 606 407 363	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792
SIMO	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL DCMXALAL CCOMPALAL	617 242 366 5,748 6 296 14 26 194 52 3,395 150 250	632 149 2,664 2 839 51 21 158 29 1,657 255 608 0	471 64 11,558 269 7 7 295 717 256 5,286 1,559 899 261 33 34 4 9,620	541 228 7,443 222 3 1,567 181 32 3,568 2,448 2,051 370 201 12 10,656 1,260	749 207 9,934 17 861 92 4 2,011 135 606 407 363 16 4,513	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL  CCOMPALAL CCOMPALAL CDMXALAL	617 242 366 5,748 6 296 14 26 194 52 3,395 150 250 2 4,384	632 149 2,664 2 839 51 158 29 1,657 255 608 0 3,618	471 64 11,558 269 7 295 717 256 5,286 1,559 899 261 33 4 4 9,620 1,973 141	541 228 7,443 222 3 1,567 181 32 3,568 2,448 2,051 370 201 12 10,656 1,260 770	749 207 9,934 17 861 92 4 2,011 135 606 407 363 16 4,513	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL CCOMPALAL CCOMPALAL CCOMPALAL CPLABF	617 242 366 5,748 6 296 14 26 194 52 3,395 150 250 2 4,384	632 149 2,664 2 839 51 21 158 29 1,657 255 608 0 3,618	471 64 11,558 269 7 295 717 717 256 5,286 1,559 261 33 34 4 9,620 1,973 141 51	541 228 7,443 222 3 1,567 181 32 3,568 2,448 2,051 370 201 10,656 1,260 770 334	749 207 9,934 17 861 92 4 2,011 135 606 407 363 16 4,513	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL CCMALAL DCMXALAL CCOMPALAL CDMXALAL CDMXALAL CDMXALAL CPLABF CPLABMG	617 242 366 5,748 6 296 14 26 194 52 3,395 150 250 2 4,384 112 188 77	632 149 2,664 2 839 51 21 158 29 1,657 255 608 0 3,618 245 327 13	471 64 11,558 269 7 295 777 256 5,286 1,559 899 261 33 34 4 9,620 1,973 141 51 661	541 228 7,443 222 3 1,567 181 32 3,568 2,448 2,051 370 201 12 10,656 1,260 770 334 175	749 207 9,934 17 861 92 4 2,011 135 606 407 363 16 4,513 712	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL CCOMPALAL CCDMXALAL CPLABF CPLABMG CPLABMG CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CCMPALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG	617 242 366 5,748 6 296 14 26 194 52 3,395 150 250 2 4,384 112 188 77	632 149 2,664 2 839 51 21 158 29 1,657 255 608 0 3,618 245 327 13	471 64 11,558 269 7 295 717 256 5,286 1,559 899 261 33 34 4 9,620 1,973 141 51 661 303	541 228 7,443 222 3 1,567 181 32 3,568 2,448 2,051 370 201 12 10,656 1,260 770 334 175 77	749 207 9,934 17 861 92 4 2,011 135 606 407 363 16 4,513 712 167 189 161	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CCMPALAL CDMXALAL CDMXALAL CPLABMG CPLAB	617 242 366 5,748 6 6 296 14 26 194 52 3,395 150 250 2 4,384 112 188 77 12 68	632 149 2,664 2 839 51 21 158 29 1,657 255 608 0 3,618 245 327 13 6	471 64 11,558 2699 7 295 717 256 5,286 1,559 899 261 33 34 4 9,620 1,973 141 51 661 303 1,892	541 228 7,443 3 1,567 181 32 3,568 2,448 2,051 370 201 12 10,656 1,260 770 334 175 77	749 207 9,934 17 861 92 4 2,011 135 606 407 363 16 4,513 712 167 189 161 1,434	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559 4,734
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL CCOMPALAL CCDMXALAL CPLABF CPLABMG CPLABMG CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CCMPALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG	617 242 366 5,748 6 296 14 26 194 52 3,395 150 250 24,384 112 188 77 12 68 81	632 149 2,664 2 839 51 21 158 29 1,657 255 608 0 3,618 245 327 13	471 64 11,558 269 7 295 717 717 256 5,286 1,559 899 261 33 34 4 9,620 1,973 141 51 661 303 1,892 2,305	541 228 7,443 222 3 1,567 181 32 3,568 2,448 2,051 370 201 12 10,656 1,260 770 334 175 77 1,266 1,494	749 207 9,934 17 861 92 4 2,011 135 606 407 363 16 4,513 712 167 189 161	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559 4,734 4,880
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CDMXALAL DCMXALAL CDMXALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL	617 242 366 5,748 6 296 14 26 194 52 3,395 150 250 2 4,384 112 188 77 12 68 81	632 149 2,664 2 839 51 121 158 29 1,657 255 608 0 3,618 245 327 13 6 74 66 8	471 64 11,558 269 7 295 717 256 5,286 1,559 899 261 33 34 4 9,620 1,973 141 511 661 303 1,892 2,305 5	541 228 7,443 222 3 1,567 181 32 3,568 2,448 2,051 370 201 12 10,656 1,260 770 334 175 77 1,266 1,496 1,260	749 207 9,934 17 861 92 4 2,011 135 606 407 363 16 4,513 712 167 189 161 1,434 934 79	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559 4,734 4,880 930
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CCDMALAL CCDMALAL CCDMALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDMG	617 242 366 5,748 6 296 14 26 194 52 3,395 150 250 24,384 112 188 77 12 68 81	632 149 2,664 2 839 51 1158 29 1,657 255 608 0 3,618 245 327 13 64 74	471 64 11,558 269 7 295 717 256 5,286 1,559 899 261 33 34 4 9,620 1,973 141 561 303 1,892 2,305 2,2305 2,235	541 228 7,443 222 3 1,567 181 32 3,568 2,448 2,051 370 201 12 10,656 1,260 770 334 175 77 1,266 1,494	749 207 9,934 17 861 92 4 2,011 135 606 407 363 16 4,513 712 167 189 161 1,434 934	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559 4,734 4,880 930 4,127
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABMG CPLABMG CPLCDMG CSBALAL CSWALAL DCMXALAL CCWALAL DCMXALAL CCMPALAL CCMPALAL CDMXALAL CPLABM CPLABMG CPLABMG CPLCDMG CSBALAL CSWALAL CSWALAL COMPALAL CDMXALAL CPLABMG CSBALAL CSWALAL	617 242 366 5,748 6 6 296 14 26 194 52 3,395 150 250 2 4,384 112 188 77 12 68 81 330 844	632 149 2,664 2 8399 51 158 29 1,657 255 608 0 3,618 245 327 13 6 74 66 8 8	471 64 11,558 269 7 295 717 717 256 5,286 1,559 261 33 34 4 9,620 1,973 141 51 661 303 1,892 2,305 2,3	541 228 7,443 222 3 1,567 181 32 3,568 2,448 2,051 370 201 12 10,656 770 334 175 77 1,266 1,494 277	749 207 9,934 17 861 92 4 2,011 135 606 407 363 16 4,513 712 167 189 161 1,434 934 79 698	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559 4,734 4,880 930
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL DCMXALAL CCMPALAL CDMXALAL CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDMG CSBALAL CSWALAL	617 242 366 5,748 6 6 296 14 26 194 52 3,395 150 250 2 4,384 112 188 77 12 68 81 330 844 278	632 149 2,664 2 839 51 11 158 255 608 0 3,618 245 327 13 66 86 88 74	471 64 11,558 269 7 295 717 717 256 5,286 1,559 261 33 34 4 9,620 1,973 141 51 661 303 1,892 2,305 2,3	541 228 7,443 222 3 1,567 181 32 3,568 2,448 2,051 370 201 12 10,656 1,260 770 334 175 77 1,266 1,494 277 1,013	749 207 9,934 17 861 92 4 2,011 135 606 407 363 16 4,513 712 167 189 161 1,434 934 79 698 698 645	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 1,980 1,068 1,115 559 4,734 4,880 930 4,127 1,075
SIMO SIMO Total	CSWALALS DAWALAL DCMXALAL  CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL CCOMPALAL CCOMPALAL CCOMPALAL CDMXALAL CDMXALAL CCOMPALAL CDMXALAL CDMXALAL CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL CSWALAL CSWALAL CSWALAL CSWALAL CSWALAL DAWALAL DAWALAL	617 242 366 5,748 6 296 14 26 194 52 3,395 150 250 2 4,384 112 188 77 12 68 81 330 844 278 701	632 149 2,664 2 839 51 158 29 1,657 255 608 0 3,618 245 327 13 6 6 7 4 66 8 8 7	471 64 11,558 2699 7 295 7,295 5,286 1,559 899 261 33 34 4 9,620 1,973 141 51 661 303 1,892 2,305 2,305 2,305 1,514 31	541 228 7,443 222 3 1,567 181 32 3,568 2,448 2,051 370 201 12 10,656 1,260 770 334 175 77 1,266 4,494 2,77 1,013 1,494 2,77 1,013 1,494 6,696	749 207 9,934 17 861 92 4 2,011 135 606 407 363 16 4,513 712 167 189 161 1,434 934 79 698 645 1,469	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 1,980 1,068 1,115 559 4,734 4,880 930 4,127 1,075 5,610

Table 8-12: Gross Landbase Seral Stage Distribution at Year 200

Compartment		SeralState						
	Strata	EOG		LOG	Mature	Regen	Young	Grand Total
BOLT	CCOMPALAL		1		39	347	1,377	1,765
	CDMXALAL			37		180	46	263
	CPLABF		128	395	1.025	104	284	1,945
			120		1,035			
	CPLABMG			30	0	223	786	1,039
	CPLABMGS			44		98	639	781
	CPLCDF		1	136	4,089	1,530	2,082	7,837
	CPLCDMG		3	53	0	2,362	1,134	3,552
	CSBALAL		175	887	596	1,047	549	3,254
	CSWALAL		16	50	641	614	2,556	3,877
	CSWALALS			22	48	849	919	1,839
					40	0+3	313	
	DAWALAL			16				16
	DCMXALAL			4		249	18	272
BOLT Total			323	1,674	6,448	7,603	10,391	26,439
DEEP	CCOMPALAL		16		327	284	1,195	1,821
	CDMXALAL		1	21		318	114	454
	CPLABF		131	1,619	2,266	111	2,249	6,375
	CPLABMG		0	56	,	550	1,997	2,603
	CPLABMGS		Ū	24		191	590	805
			0		2 022			
	CPLCDF		9	202	2,823	1,202	4,876	9,112
	CPLCDMG	I	13	174	0	3,850	3,114	7,150
]	CSBALAL	I	122	3,025	2,691	6,310	2,385	14,532
]	CSWALAL	I	0	41	88	272	287	688
]	CSWALALS	I		4	0	204	389	598
	DAWALAL	I		128	13	2	6	149
	DCMXALAL	1	0	29	.5	65	138	232
DEEP Total	1- 0 ILI IL	l	292	5,322	8,207	13,359	17,340	44,521
	CCOMPALAL			3,322	0,207	13,333		
HUCK	CCOMPALAL		22			_	1	23
	CDMXALAL			11		3	7	21
]	CPLABF	I	262	1,885	1,628	992	1,520	6,287
	CPLABMG			171		248	714	1,133
	CPLABMGS			45		213	1,009	1,268
	CPLCDF		6	586	829	2,774	8,754	12,950
	CPLCDMG		3	236	020	989	2,281	3,510
	CSBALAL		384	2.457	616	2,575	777	6,809
				, -				
	CSWALAL		6	152	170	1,003	594	1,925
	CSWALALS			46	0	1,164	950	2,160
	DAWALAL			38				38
	DCMXALAL			18		12	6	36
HUCK Total			683	5,646	3,243	9,973	16,613	36,159
MUSK	CCOMPALAL		2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-,-	4	6
	CDMXALAL			198	9	208	208	623
	CPLABF		191	2,254	1,728	102	634	4,909
			191		1,720			
	CPLABMG			564		990	1,538	3,093
	CPLABMGS			91		181	714	985
	CPLCDF		1	573	1,492	1,085	4,023	7,174
	CPLCDMG		2	729	0	2,026	3,215	5,972
	CSBALAL		32	1,359	973	546	99	3,009
	CSWALAL		612	834	815	2,864	991	6,116
	CSWALALS		0.2	258				
1	DAWALAL DCMXALAL	ī		7/6	0 542	1,049	502 955	1,809 2,636
				746	542	393	955	2,636
MUNICIPAL	DCIVIXALAL			546	542 1	393 246	955 222	2,636 1,015
MUSK Total			840		542 1 5,560	393 246 9,690	955 222 13,106	2,636 1,015 37,347
MUSK Total SIMO	CCOMPALAL		840	546 8,151	542 1	393 246 9,690 222	955 222 13,106 240	2,636 1,015 37,347 492
				546	542 1 5,560	393 246 9,690	955 222 13,106	2,636 1,015 37,347
	CCOMPALAL			546 8,151	542 1 5,560	393 246 9,690 222	955 222 13,106 240	2,636 1,015 37,347 492
	CCOMPALAL CDMXALAL		6	546 8,151 6	542 1 5,560 23	393 246 9,690 222 4	955 222 13,106 240 25	2,636 1,015 37,347 492 35 3,858
	CCOMPALAL CDMXALAL CPLABF CPLABMG		6	546 8,151 6 601 29	542 1 5,560 23	393 246 9,690 222 4 177 278	955 222 13,106 240 25 791 747	2,636 1,015 37,347 492 35 3,858 1,054
	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS		6 59	546 8,151 6 601 29 41	542 1 5,560 23 2,229	393 246 9,690 222 4 177 278 39	955 222 13,106 240 25 791 747 260	2,636 1,015 37,347 492 35 3,858 1,054 340
	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF		6 59 13	546 8,151 6 601 29 41 371	542 1 5,560 23	393 246 9,690 222 4 177 278 39 1,893	955 222 13,106 240 25 791 747 260 3,968	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217
	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG		6 59 13 6	546 8,151 6 601 29 41 371 111	542 1 5,560 23 2,229 4,972	393 246 9,690 222 4 177 278 39 1,893 3,109	955 222 13,106 240 25 791 747 260 3,968 998	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224
	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL		6 59 13 6 117	546 8,151 6 601 29 41 371 111 1,476	542 1 5,560 23 2,229 4,972 1,770	393 246 9,690 222 4 177 278 39 1,893 3,109 3,007	955 222 13,106 240 25 791 747 260 3,968 998 2,238	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607
	CCOMPALAL CDMXALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL		6 59 13 6	546 8,151 6 601 29 41 371 111 1,476 63	542 1 5,560 23 2,229 4,972 1,770 298	393 246 9,690 222 4 177 278 39 1,893 3,109 3,007 386	955 222 13,106 240 25 791 747 260 3,968 998 2,238 694	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442
	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS		6 59 13 6 117	546 8,151 6 601 29 41 371 111 1,476 63 19	542 1 5,560 23 2,229 4,972 1,770	393 246 9,690 222 4 177 278 39 1,893 3,109 3,007	955 222 13,106 240 25 791 747 260 3,968 998 2,238	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455
	CCOMPALAL CDMXALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL		6 59 13 6 117	546 8,151 6 601 29 41 371 111 1,476 63	542 1 5,560 23 2,229 4,972 1,770 298	393 246 9,690 222 4 177 278 39 1,893 3,109 3,007 386	955 222 13,106 240 25 791 747 260 3,968 998 2,238 694	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442
	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS		6 59 13 6 117	546 8,151 6 601 29 41 371 111 1,476 63 19	542 1 5,560 23 2,229 4,972 1,770 298	393 246 9,690 222 4 177 278 39 1,893 3,109 3,007 386	955 222 13,106 240 25 791 747 260 3,968 998 2,238 694	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455
SIMO	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS DAWALAL		59 13 6 117 2	546 8,151 6 601 29 41 371 111 1,476 63 19 34 6	542 1 5,560 23 2,229 4,972 1,770 298 114	393 246 9,690 222 4 177 278 39 1,893 3,109 3,007 386 366	955 222 13,106 240 25 791 747 260 3,968 2,238 694 956	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34
SIMO SIMO Total	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DAWALAL DCMXALAL		6 59 13 6 117 2	546 8,151 6 601 29 41 371 111 1,476 63 19 34	542 1 5,560 23 2,229 4,972 1,770 298 114	393 246 9,690 222 4 177 278 39 1,893 3,109 3,007 386 366	955 222 13,106 240 25 791 747 260 3,968 998 2,238 694 956 16	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792
SIMO	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS DAWALAL DCMXALAL CCOMPALAL		6 59 13 6 117 2 203 23	546 8,151 6 601 29 41 371 111 1,476 63 19 34 6	542 1 5,560 23 2,229 4,972 1,770 298 114	393 246 9,690 222 4 177 278 39 1,893 3,109 3,007 386 366 12 9,494	955 222 13,106 240 25 791 747 260 3,968 2,238 694 956 10,933 1,547	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792
SIMO SIMO Total	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL		6 59 13 6 117 2 203 23 0	546 8,151 6 601 29 41 371 111 1,476 63 19 34 6 2,757	542 1 5,560 23 2,229 4,972 1,770 298 114 9,405 439	393 246 9,690 222 4 177 278 39 1,893 3,109 3,007 386 366 12 9,494 1,225 1,052	955 222 13,106 240 25 791 747 260 3,968 998 2,238 694 956 10,933 1,547 737	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980
SIMO SIMO Total	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CDMXALAL CDMXALAL CPLABF		6 59 13 6 117 2 203 23	546 8,151 6 601 29 41 371 111 1,476 63 34 6 2,757	542 1 5,560 23 2,229 4,972 1,770 298 114	393 246 9,690 2222 4 1777 278 39 1,893 3,109 3,007 386 366 12 9,494 1,225 1,052 279	955 222 13,106 245 791 747 260 3,968 998 2,238 694 956 10,933 1,547 737 194	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068
SIMO SIMO Total	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL CCOMPALAL COMPALAL CCOMPALAL CDMXALAL CDMXALAL CDMXALAL CPLABF CPLABMG		6 59 13 6 117 2 203 23 0	546 8,151 6 601 29 41 371 111 1,476 63 34 6 2,757	542 1 5,560 23 2,229 4,972 1,770 298 114 9,405 439	393 246 9,690 222 4 1777 278 39 1,893 3,109 3,007 386 366 12 9,494 1,225 1,052 279 294	955 222 13,106 245 791 747 260 3,968 998 2,238 694 956 10,933 1,547 737 194 732	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115
SIMO SIMO Total	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CDMXALAL CDMXALAL CPLABF		6 59 13 6 117 2 203 23 0 4	546 8,151 6 601 29 41 371 111 1,476 63 34 6 2,757	542 1 5,560 23 2,229 4,972 1,770 298 114 9,405 439	393 246 9,690 2222 4 1777 278 39 1,893 3,109 3,007 386 366 12 9,494 1,225 1,052 279	955 222 13,106 245 791 747 260 3,968 998 2,238 694 956 10,933 1,547 737 194	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068
SIMO SIMO Total	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL CCOMPALAL COMPALAL CCOMPALAL CDMXALAL CDMXALAL CDMXALAL CPLABF CPLABMG		6 59 13 6 117 2 203 23 0	546 8,151 6 601 29 41 371 111 1,476 63 34 6 2,757	542 1 5,560 23 2,229 4,972 1,770 298 114 9,405 439	393 246 9,690 222 4 1777 278 39 1,893 3,109 3,007 386 366 12 9,494 1,225 1,052 279 294	955 222 13,106 245 791 747 260 3,968 998 2,238 694 956 10,933 1,547 737 194 732	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115
SIMO SIMO Total	CCOMPALAL CDMXALAL CPLABF CPLABMGS CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALALS DAWALAL DCMXALAL CCMPALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABC		6 59 13 6 117 2 203 23 0 4	546 8,151 6 601 29 41 371 111 1,476 63 19 34 6 2,757 191 222 90 15 162	542 1 5,560 23 2,229 4,972 1,770 298 114 9,405 439 368 1,551	393 246 9,690 222 4 177 278 39 1,893 3,109 3,307 386 366 12 9,494 1,225 1,052 279 294 134 666	955 222 13,106 240 25 791 747 260 3,968 998 2,238 694 956 10,933 1,547 737 194 732 410 2,352	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 4,455 35 32,792 3,234 1,980 1,068 1,115 559 4,734
SIMO SIMO Total	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL CCOMPALAL CDMXALAL CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG		6 59 13 6 117 2 203 23 0 4	546 8,151 6 601 29 41 371 111 1,476 63 19 34 6 2,757 191 222 90 15 162 141	542 1 5,560 23 2,229 4,972 1,770 298 114 9,405 439 368 1,551 0	393 246 9,690 222 4 177 278 39 1,893 3,007 386 366 12 9,494 1,225 1,052 279 294 134 666 2,568	955 222 13,106 240 25 791 747 7260 3,968 998 2,238 694 956 10,933 1,547 737 194 732 410 2,352 2,170	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 5559 4,734 4,880
SIMO SIMO Total	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALALS DAWALAL DCMXALAL CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDF CPLCDF CPLCDF CPLCDF CPLCDF CPLCDMG CSBALAL		6 59 13 6 117 2 203 23 0 4 2 1 19	546 8,151 6 601 29 41 371 111 1,476 63 34 6 2,757 191 222 90 15 162 141 141 242	542 1 5,560 23 2,229 4,972 1,770 298 114 9,405 439 368 1,551 0 317	393 246 9,690 222 4 1777 278 39 1,893 3,109 3,007 386 366 12 9,494 1,225 1,052 279 294 134 666 2,568 309	955 222 13,106 25 791 747 260 3,968 998 2,238 956 10,933 1,547 737 194 410 2,352 2,170 410	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559 4,734 4,880 930
SIMO SIMO Total	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL DCMXALAL DCMXALAL CDMXALAL CPLABF CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDMG CSBALAL CSWALAL		6 59 13 6 117 2 203 23 0 4	546 8,151 6 601 29 41 1371 111 1,476 63 34 6 2,757 191 222 90 90 15 162 141 242 241	542 1 5,560 23 2,229 4,972 1,770 298 114 9,405 439 368 1,551 0 317 752	393 246 9,690 222 4 177 278 39 1,893 3,109 3,007 386 366 12 9,494 1,225 1,052 279 294 134 666 2,568 309 1,069	955 222 13,106 240 25 791 747 260 3,968 998 2,238 694 956 10,933 1,547 732 410 2,352 2,170 42 2,130	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559 4,734 4,880 930 4,127
SIMO SIMO Total	CCOMPALAL CDMXALAL CPLABMG CPLABMGS CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL CCMPALAL CPLABMG CSWALAL CSWALAL CSWALAL CSWALAL CSWALAL		59 13 6 117 2 203 23 0 4 2 1 1 19 32	546 8,151 6 601 29 41 371 111 1,476 63 19 34 6 2,757 191 222 90 15 162 141 242 144 4	542 1 5,560 23 2,229 4,972 1,770 298 114 9,405 439 368 1,551 0 317 752 17	393 246 9,690 222 4 177 278 39 1,893 3,109 3,007 386 366 12 9,494 1,225 1,052 279 294 134 666 2,568 309 1,069 536	955 222 13,106 25 791 747 260 3,968 998 2,238 694 956 10,933 1,547 737 194 732 410 2,352 2,170 42 2,130 518	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 32,792 3,234 1,980 1,068 1,115 559 4,734 4,880 930 930 4,127 1,075
SIMO SIMO Total	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL CCMPALAL CDMXALAL CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL		6 59 13 6 117 2 203 23 0 4 2 1 19	546 8,151 6 601 29 41 1371 111 1,476 63 34 6 2,757 191 222 90 90 15 162 141 242 241	542 1 5,560 23 2,229 4,972 1,770 298 114 9,405 439 368 1,551 0 317 752	393 246 9,690 222 4 177 278 39 1,893 3,109 3,007 386 366 12 9,494 1,225 1,052 279 294 134 666 2,568 309 1,069	955 222 13,106 240 25 791 747 260 3,968 998 2,238 694 956 10,933 1,547 732 410 2,352 2,170 42 2,130	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559 4,734 4,880 930 4,127
SIMO SIMO Total	CCOMPALAL CDMXALAL CPLABMG CPLABMGS CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL CCMPALAL CPLABMG CSWALAL CSWALAL CSWALAL CSWALAL CSWALAL		59 13 6 117 2 203 23 0 4 2 1 1 19 32	546 8,151 6 601 29 41 371 111 1,476 63 19 34 6 2,757 191 222 90 15 162 141 242 144 4	542 1 5,560 23 2,229 4,972 1,770 298 114 9,405 439 368 1,551 0 317 752 17	393 246 9,690 222 4 177 278 39 1,893 3,109 3,007 386 366 12 9,494 1,225 1,052 279 294 134 666 2,568 309 1,069 536	955 222 13,106 25 791 747 260 3,968 998 2,238 694 956 10,933 1,547 737 194 732 410 2,352 2,170 42 2,130 518	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 32,792 3,234 1,980 1,068 1,115 559 4,734 4,880 930 930 4,127 1,075
SIMO SIMO Total	CCOMPALAL CDMXALAL CPLABF CPLABMG CPLABMGS CPLCDF CPLCDMG CSBALAL CSWALAL DCMXALAL DCMXALAL CCMPALAL CDMXALAL CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLABMG CPLCDF CPLCDMG CSBALAL CSWALAL CSWALAL CSWALAL		59 13 6 117 2 203 23 0 4 2 1 1 19 32	546 8,151 6 601 29 41 371 111 1,476 63 34 6 2,757 191 222 90 15 162 141 242 144 4 2,324	542 1 5,560 23 2,229 4,972 1,770 298 114 9,405 439 368 1,551 0 317 752 177 957	393 246 9,690 222 4 177 278 39 1,893 3,109 3,007 386 366 12 9,494 1,225 1,052 279 294 134 666 62,568 309 1,069 536 824	955 222 13,106 240 25 791 747 260 3,968 998 2,238 694 956 10,933 1,547 737 194 410 2,352 2,170 42 2,130 518 1,505	2,636 1,015 37,347 492 35 3,858 1,054 340 11,217 4,224 8,607 1,442 1,455 34 35 32,792 3,234 1,980 1,068 1,115 559 4,734 4,880 930 4,127 1,075 5,610

## **Patch Size Distribution**

The Patch Analysis component of RSPS was used to generate the patch statistics shown in this section. For this analysis, a patch was defined as the aggregation of forested polygon in the same seral stage not separated by a distance of greater than 10 meters. Two generalized comments can be made about the trend in patch sizes from this analysis. The first being that over time there is a decline in the amount of area in the largest patch size defined for this TSA, while there is a small increase in the area of all other patch size classes. The second being an increase in the number of patches in the smallest 4 or 5 patch size classes. Figure 8-11 illustrates the area in each patch size class, while Figure 8-12 shows the number of patches in each patch size class.

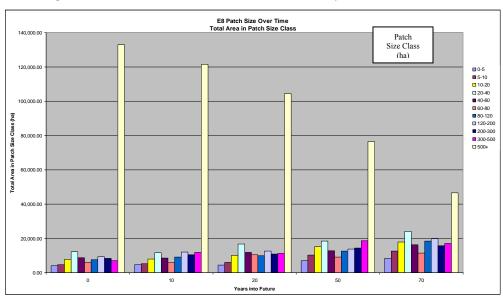
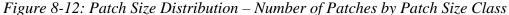


Figure 8-11: Patch Size Distribution – Area by Patch Size Class



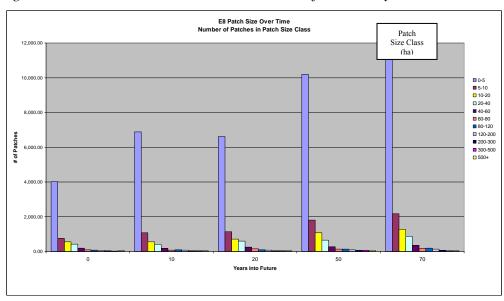


Table 8-13 provides a breakdown of area in each patch size class as well as the number of patches in each class at years 0, 10 and 50.

Table 8-13: Patch Size Distribution Over Time

Years Into Future		0		10	50			
	# of	Area of	# of	Area of	# of	Area of		
Patch Size (ha)	Patches	Patches (ha)	Patches	Patches (ha)	Patches	Patches (ha)		
a) 0-5	4,025	4,160	6,886	4,694	10,193	7,087		
b) 5-10	749	4,576	1,069	5,299	1,815	10,316		
c) 10-20	553	7,849	558	7,870	1,084	15,168		
d) 20-40	430	12,284	412	11,675	660	18,430		
e) 40-60	183	8,780	178	8,528	261	12,748		
f) 60-80	87	6,003	85	5,886	132	9,168		
h) 80-120	78	7,659	93	9,162	130	12,681		
i) 120-200	61	9,366	78	12,072	88	13,782		
j) 200-300	34	8,346	43	10,531	59	14,383		
k) 300-500	18	6,961	32	11,783	49	18,626		
I) 500+	39	132,960	40	121,481	60	76,551		

All reporting for patch size distribution was done at the FMU level for this TSA.

A full map sheet is provided in Reference Section in the "Future Forest Condition" section which provides snapshots of the patch size distribution in the E8 FMU for years 0, 10, and 50 based on the PFMS SHS.

# **Strata Description Table**

As per Section 6.2 of Annex 1 of the Planning Standard, Tables 8-14 to 8-17 contain the Strata Description Tables for the first 20 years of the SHS. Each table is for the five year period specified. Figure 8-13 provides a graphical representation of the area harvested by strata by five year harvest period.

Table 8-14: Strata Description Table – Year 1 to 5 Harvest (Period 1)

Harvest Years	1-5					1											,			
Sum of Area (ha)		Age																		
Compartment	Strata	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	250	Grand Tota
Bolton	CPIABF				9	4	11	5	63	2				9		17	34			183
	CPIABMG		0	0	24	108	8	36	67	0				12						264
	CPIABMGS				16	12	115	22	35		14									213
	CPICDF		0	46	184	238	17		63	5										554
	CPICDMG		0	16	15	185	74	121	28					9						449
	CSbalal					3		10	18		24									55
	CSwalal				0		1	0	1	0				0	0			0		35
	CSwalalS					0	8	0	0	6				12			0	_		47
Bolton Total			0	62	247	571	234	194	275		100			42		17				1,798
Deep Valley	CDMxalal		Ŭ	- 02		15			7		.00	_			Ŭ		<u> </u>	H		23
Doop valley	CPIABF					55	38		47			39		6	0					185
	CPIABMG					34	34		56		7	33		31	l					161
	CPIABMGS		-			34	34		16		- '	3		31				<u> </u>		19
	CPICDF					314	C.F.		58			3		11					1	457
	CPICDF	-	1	$\vdash$		151	65 153			1	-			<del>- ' '</del>	8	1	1	1	-	
		-	<del>                                     </del>	_	^				73	_	0.4	_		40	$\vdash$	_	├	├	├	376
	CSbalal		<del>                                     </del>	0	0	5	9	8	37	3		0		18	$\vdash$	6	$\vdash$	$\vdash$	$\vdash$	167
	CSwalal	-	1	$\vdash$		<del>                                     </del>			0	<del> </del>	12			$\vdash$	$\vdash$	├—	├	Ι—	Η-	13
	CSwalalS		1	$\vdash$		<del></del>			0	Ь—	3	-	$\vdash$	$\vdash$	$\vdash$	<u> </u>	├	├	$\vdash$	
	DAwalal	-	1			4				1	-					-			-	4
	DCMxalal		<u> </u>			6				<u> </u>				L	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Deep Valley Tota			<u> </u>	0			299	8	294	3	103	42		66	8	6	Ц_	Ц_	Ц_	1,413
Huckleberry	CPIABF			0	12	37	3													52
	CPIABMG				10	79														89
	CPIABMGS				6	83	25			3										116
	CPICDF			11	41	409	69													530
	CPICDMG				100	101	55													256
	CSbalal			0		6	0	10												16
	CSwalal						0				1									1
	CSwalalS	1	i i	П		0			0		7									7
Huckleberry Total		Ì		11	169	714	152	10	0	3	8						<del>i -</del>	<del>i -</del>	i –	1,066
Muskeg	CDMxalal	<del>                                     </del>	<del>                                     </del>		9	<del>- ' '</del>	102	15		۲	- 3			$\vdash$	$\vdash$	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>	1,000
widakey	CPIABF	0	<del>                                     </del>	5	64	34	67	28	-	$\vdash$					$\vdash$	$\vdash$	$\vdash$	$\vdash$	$\vdash$	198
	CPIABMG	<b>├</b>	11		40	116	47	147		0							$\vdash$	$\vdash$	$\vdash$	361
	CPIABMGS	1	<del>  ''</del>	$\vdash$	57	2	39	17	-	4				$\vdash$	$\vdash$	$\vdash$	$\vdash$	$\vdash$	$\vdash$	118
	CPICDF	1	<del>                                     </del>	119	256	871	60	42		<del>  4</del>				$\vdash$	$\vdash$	$\vdash$	$\vdash$	$\vdash$	$\vdash$	1,349
		<b>.</b>	00						<b>—</b>	40	-				$\vdash$	<del>                                     </del>	├	├	├	
	CPICDMG	14	29	4	377	392	81	109	-	12	-		$\vdash$		$\vdash$	-	-	-	-	1,017
	CSbalal		1	$\vdash$	0		1	41	_	0					H	<u> </u>	$\vdash$	$\vdash$	$\vdash$	54
	CSwalal		<u> </u>	$\vdash$	3		32	79	0	2		1		$\vdash$	$\vdash$	<u> </u>	<u> </u>	<u> </u>	<u> </u>	158
	CSwalalS		<u> </u>		4		2	26	0	8					<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	41
	DAwalal		<u> </u>	$\vdash$	53	44			<u> </u>	<u> </u>	<u> </u>				$\vdash$	<u> </u>	Ь.	Ь.	Ь.	97
	DCMxalal	<u> </u>	<u> </u>	Ш	1	0				Щ.	<u></u>	<u></u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	1
Muskeg Total		14	39	129	864	1,514	328	504	0	26										3,418
Simonette	CPIABF					81	1		52	16	37					16				203
	CPIABMG					4	71		0	3			35							114
	CPIABMGS					29	43		21			11								105
	CPICDF			0		476	18		152	24	31	74	5	15	18	29	11		10	863
	CPICDMG					75	16	9	35		6									153
	CSbalal					1	0	4	25		126		_		7	0				201
	CSwalal	1				1		0	4	0		20	2		5	T				71
	CSwalalS		1	М		0		Ť	8	_	28					0		0		65
	DCMxalal		t -	$\vdash$		0			Ť					Ť	Ť	Ť		ГŤ		(
Simonette Total		1	<del>                                     </del>	0		668	149	13	297	42	254	136	53	59	35	45	11	0	10	1,774
	CDMyalal	<del>                                     </del>	<del>                                     </del>	J	0	_	173		201	72	204	.50	- 55	- 53	- 55	+3	+	۲	<del>  10</del>	
Smoky	CDMxalal CPIABF	<b>-</b>	1	$\vdash$	U	<b>-</b>		33 6		11	-			0	$\vdash$	<del>                                     </del>	$\vdash$	$\vdash$	$\vdash$	33 17
	CPIABR		40		27	47	<b>-</b>	61	<u> </u>			1	-		$\vdash$	<del>                                     </del>	├	$\vdash$	├	
			13		27				_	9	-	-	5	$\vdash$	$\vdash$	├—	$\vdash$	$\vdash$	$\vdash$	168
	CPIABMGS	_	<b>—</b>	6	100			18	_	C.F.	-		$\vdash$		$\vdash$	-	-	-	-	3′
	CPICDF	0			108			68	9								<u> </u>	<u> </u>	<u> </u>	250
	CPICDMG	0	88	56	183	67		100	9	25			$\vdash$		$\vdash$	<u> </u>	Ь	<u> </u>	Ь_	527
	CSbalal		<u> </u>					22		Ь						<u> </u>	Ь	Ь	Ь	22
	CSwalal				4	2		35		67		34								142
	CSwalalS							17	23	1		47								88
	IDAI-I		33	18	62	21														134
	DAwalal																			
	DAWalal				7	7									<u> </u>					15
Smoky Total		0	136		7 394			359	40	178		81	5	0		<u> </u>				1,427

Table 8-15: Strata Description Table – Year 6 to 10 Harvest (Period 2)

Harvest Years	6-10	13. Si													,					
Sum of Area (ha)		Age																		
Compartment	Strata	75	85	95	105	115	125	135	145	155	165	175	185	195	205	215	225	235	255	Grand Total
Bolton	CPIABF				10				42	71	67									195
	CPIABMG				12	0	6	46		0				18						83
	CPIABMGS				28	30	45	0												103
	CPICDF		0	5	172	58	30		142	70	6									483
	CPICDMG		6	4	27	67	60		6	16										184
	CSbalal				0		6	1	5		9	3		23						47
	CSwalal CSwalalS		0	$\vdash$	0				7 10	8 9	8 31	0		0 15			0			23 64
Daltara Tatal	CSWalaiS		_		0.40	4.00	4.47	47									_			
Bolton Total	IODM::-I-I		6	8	249		147	47	211	173	121	4		55			0			1,181
Deep Valley	CDMxalal CPIABF					16 74	22		200			5								16
	CPIABR			12		102	22 70		36 158		8	5								137 350
	CPIABMGS			12		102	43		40		5									89
	CPICDF			9		502	42		54											608
	CPICDMG			138		380	145		27											690
	CSbalal			-~~		11	66		99		44			0						220
	CSwalal	İ				1	- 55		0		6			Ŭ						8
	CSwalalS						0		4		0			3						7
	DAwalal					4														4
	DCMxalal					5														5
Deep Valley Total				160		1,095	389		418		64	5		3						2,134
Huckleberry	CPIABF					0	13	218		10										242
<b>,</b>	CPIABMG			0		5	11	4												21
	CPIABMGS			0	5		0	5		0										11
	CPICDF			6	10	64	141	103		137										461
	CPICDMG				3		6	36	11											64
	CSbalal				0	0		1	6			1								8
	CSwalal						0	0			0									1
	CSwalalS					0	0	0	0	38	12	0							0	50
Huckleberry Total				6	19	77	171	368	17	186	13	1							0	857
Muskeg	CDMxalal					0	18	8		9										35
	CPIABF				10		13	42												83
	CPIABMG				0		44	102	36	_										247
	CPIABMGS CPICDF			38	0 111		5 36	40 104		9										58 520
	CPICDF			38	10	228 109	30	51		3										169
	CSbalal			0	0		0	1												95
	CSwalal			72	0		- 0													72
	CSwalalS			12	0			4		20	1	9								34
	DAwalal				34	41						Ŭ								75
	DCMxalal					0														0
Muskeg Total	1			110	165	560	115	353	36	40	1	9								1,389
Simonette	CDMxalal					2		5	- 55			Ť								7
	CPIABF			0		281	38	13	106	1	67	13				1				520
	CPIABMG			mi		82	56		44	8			2							269
	CPIABMGS					18	16		10			0								45
	CPICDF		0	3		771	109	6		9	9	14	25	8	9				8	1,065
	CPICDMG					216	78		51		21	4	1							372
	CSbalal			0		18	9	0	17		76	103	28	15	2					268
	CSwalal					1	0	0	1		27	0		0		0				29
	CSwalalS			<u> </u>		1			5		6	26	24	9	0	0	<u> </u>	0		70
Simonette Total			0	3		1,391	307	24	329	18	283	159	79	32	11	1		0	8	2,646
Smoky	CDMxalal		0	0	0			75	0											75
	CPIABF		4		51			67	19	10										151
	CPIABMG		18		17	126		31	10	29		28								259
	CPIABMGS		<u> </u>	9	24	8				56										97
	CPICDF	0	0		603			340	36	11										990
	CPICDMG	4	75	28	517	33		74	81	9										821
	CSbalal		Ļ	بــا	0			21		0		0								21
	CSwalal		0	0	0			0	0	14		0								14
	CSwalalS	_	<u> </u>	H	0			0	29	27		36								92
	DAwalal DCMxalal	3	5		17	102		0												127 17
		1	0	0	3	14		U												17
Consider T-4-1	DOMAGICA	_	400	^-	4 000	004		600	471	457		C 1								0.005
Smoky Total Grand Total	Вомлана		102 108		1,233 1,667	284	4.400	608	174 1,186		400	64 242	79	90	11	1	0	0	8	2,665 10,872

Table 8-16: Strata Description Table – Year 11 to 15 Harvest (Period 3)

Harvest Years	11-15	<b>J</b>																		
Sum of Area (ha)		Age																		
Compartment	Strata	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	250	260	Grand Total
Bolton	CDMxalal					7	4				2									13
	CPIABF				2	7			61	0	60	8		12			0			150
	CPIABMG					6	77	21	27	12	76					24				243
	CPIABMGS				0		110								11					122
	CPICDF				3	156	54	8	178	20	11									430
	CPICDMG		_			70	103		11	7				18						209
	CSbalal				4				10		23	6								43
	CSwalal		_						9	34	5									47
	CSwalalS								29	44	13	28		28						143
	DCMxalal					1														1
Bolton Total					9		348	29	326	116	191	42		59	11	24	0			1,402
Deep Valley	CDMxalal					46			9											55
	CPIABF					232	70	10	118		4	43		5						482
	CPIABMG					128	128		106		6			11						380
	CPIABMGS					68	55		16			9		8						157
ĺ	CPICDF		1	7		254	4		58			3			0	oxdot				327
	CPICDMG		匚			114	93		0											207
ĺ	CSbalal				5	23	87		165		70	10		11						371
i	CSwalal								3											3
ĺ	CSwalalS								21		12			4						37
	DCMxalal					7														7
Deep Valley Tota			1	7	5	873	438	10	496		92	64		40	0					2,026
Huckleberry	CDMxalal	İ	T							6										6
	CPIABF	İ	T			11	10	174	1	213										409
	CPIABMG		T	1	0	24	9	13												46
	CPIABMGS		T		4	112	8													124
	CPICDF		1	4	10	155	247	282	13	61										773
	CPICDMG		十	i i	5	111	8	87	7	10										229
	CSbalal		1	3	2	0	42	20	•	4		14								85
	CSwalal		1	Ŭ	_			4		111	13									128
	CSwalalS		1					0	60	155	63	10		8						296
Huckleberry Tota			1	8	22	413	325	581	81	560	76	24		8			1			2,096
Muskeg	CDMxalal		H	4		12	1	15	01	300	70	24		0		-	-	-		38
iviuskeg	CPIABF		4		- 0	110	- '	112												225
	CPIABMG		+			90	48	90	73	64										365
	CPIABMGS		+		4	43	129	75	21	28										300
	CPICDF		+	1	0	269	25	112	21	20										407
	CPICDMG		╁	-	2	155	40	212		- 1			$\vdash$			-	-			411
	CSbalal		╁		1	100	52	21		12							_	0		87
	CSwalal		╁		1		52	0		121	4						_	U		127
	CSwalalS		+		-			3		23	34									61
	DAwalal		+		73	39		3		23	34									112
	DAWalal		+		15	27		20												62
	DCIVIXAIAI		+-	_			000		0.4	050	- 00							_		
Muskeg Total	lonu · ·		4	5	102	746	296	660	94	250	38		$\vdash$			⊢	<u> </u>	0	$\vdash$	2,194
Simonette	CDMxalal	1	₩		$\vdash$	3					Ļ		Ш			Ь—		_	$\vdash$	3
ĺ	CPIABF	1	₩		$\vdash$	151	16	28	87	17	85		Ш			Ь—	<u> </u>	_	$\vdash$	384
	CPIABMG	1			$\vdash$	45	16	5	47		72		ш			⊢			$\vdash$	186
ĺ	CPIABMGS	1	₩	_	$\vdash$	0	17		21		42	_	Щ			L	<u> </u>	_	L_	80
ĺ	CPICDF	1	₩	2	$\vdash$	208	6	53	88	0		2	Щ	L.,		29			24	467
ĺ	CPICDMG	1	₩		$\vdash$	42	0	20	24		26	L	بــا	3		Ь—	<u> </u>	_	$\vdash$	116
ĺ	CSbalal	ļ	1	3		5	12	0	56			153	6	44		<u> </u>				450
ĺ	CSwalal	ļ	_			1			0		92					<u> </u>				93
4	CSwalalS	ļ	_		lacksquare				11		51	8	Ш	1		<u> </u>				71
ļ		1	1	<u> </u>		6	5				Щ.					<u> </u>	<u></u>	<u></u>		11
	DCMxalal		-			461	73	106	335	17	591	163	6	49		29			24	1,859
Simonette Total	DCMxalal			5				23	15	85										189
Simonette Total Smoky	CDMxalal		0			16	26													
	CDMxalal CPIABF		0			16		45						6						51
	CDMxalal CPIABF CPIABMG		0			16	18		20	67				6						51 123
	CDMxalal CPIABF CPIABMG CPIABMGS		0		18			45	20 42	0				6						51
	CDMxalal CPIABF CPIABMG		0		18 6	11	18	45 1	20					6						51 123
	CDMxalal CPIABF CPIABMG CPIABMGS		0		18 6 18	11	18	45 1 51	20 42	0				6						51 123 123
	CDMxalal CPIABF CPIABMG CPIABMGS CPICDF		0		18 6 18 4	11	18 4	45 1 51 120	20 42 15	0 116		9		6						51 123 123 254
	CDMxalal CPIABF CPIABMG CPIABMGS CPICDF CPICDMG		0		18 6 18 4	11 9 39	18 4	45 1 51 120 172	20 42 15	0 116 62		9		6						51 123 123 254 316
	CDMxalal CPIABF CPIABMG CPIABMGS CPICDF CPICDMG CSbalal CSwalal		0		18 6 18 4	11 9 39	18 4	45 1 51 120 172	20 42 15	0 116 62 2 111				6						51 123 123 254 316 58 111
	CDMxalal CPIABF CPIABMG CPIABMGS CPICDF CPICDMG CSbalal CSwalal CSwalalS			4	18 6 18 4 10	11 9 39 2	18 4	45 1 51 120 172	20 42 15	0 116 62 2		9		6						51 123 123 254 316 58 111
	CDMxalal CPIABF CPIABMG CPIABMGS CPICDF CPICDMG CSbalal CSwalal CSwalalS DAwalal	4	0 13	10	18 6 18 4 10	11 9 39 2	18 4	45 1 51 120 172 45	20 42 15	0 116 62 2 111				6						51 123 123 254 316 58 111 137
	CDMxalal CPIABF CPIABMG CPIABMGS CPICDF CPICDMG CSbalal CSwalal CSwalalS			10 17	18 6 18 4 10 55 64	11 9 39 2	18 4	45 1 51 120 172	20 42 15	0 116 62 2 111				6						51 123 123 254 316 58 111

Table 8-17: Strata Description Table – Year 16 to 20 Harvest (Period 4)

	16-20	<u> </u>													
Sum of Area (ha)		Age													
Compartment	Strata	85	95	105	115	125	135	145	155	165	175	185	205	225	Grand Tota
Bolton	CDMxalal					2									
	CPIABF				2	17			4				7		30
	CPIABMG					41	1		6		1				49
	CPIABMGS					23	28								5.
	CPICDF			3	8	394	5		2						41
	CPICDMG			Ť	2	88	0		3			5			99
	CSbalal					17	Ŭ		4	0		4			26
	CSwalal					- ''			3						20
									168	46	6	1			22
İ	CSwalalS								100	40	О	ı			
	DCMxalal					9									(
Bolton Total				3	11	592	34		189	47	7	10	7		901
Deep Valley	CDMxalal					3									
	CPIABF			4		72	21		13		6	3			119
	CPIABMG					217	50		24						290
	CPIABMGS					68	29								97
	CPICDF	1		12		904	0	3	2						920
	CPICDMG					448	31	Ť	4						483
	CSbalal			2		79	25	2	62		17	5			19
		<del>                                     </del>					20			-		ິນ			
	CSwalal					0			6	_	1				41
	CSwalalS								36	3	9				48
	DCMxalal					34									34
Deep Valley Tota	l			18		1,825	154	4	146	3	33	9			2,192
Huckleberry	CPIABF					7	0	32							39
İ	CPIABMG			6		55	4	8							72
İ	CPIABMGS					13	5								18
İ	CPICDF		0	2	0	828	6								837
	CPICDMG		Ŭ		10	368	6								384
	CSbalal				10	30				2		2			35
						30		_							
	CSwalal							2	0.4	21	6				29
	CSwalalS								34	19	32	2			87
Huckleberry Tota			0	8	10	1,302	21	41	34	42	39	4			1,500
Muskeg	CDMxalal					47									47
	CPIABF		1			25				2					28
İ	CPIABMG				1	255	2	37		3					299
İ	CPIABMGS				24	57		2	3						86
	CPICDF		0	0	3	1,153		19							1,175
İ	CPICDMG		Ť	Ť	3	588		0		4					595
	CSbalal				Ů	65		8							74
	CSwalal					1		3		98	1				103
Ĭ	CSwalalS					_ '	3	3		48	11				
		7			40	40	3	3	0	40	- 11				74
	DAwalal	7			19										42
	DCMxalal				26	101									127
Muskeg Total		7	1	0	75	2,309	5	73	11	155	12				2,649
Simonette	CDMxalal					7									7
	CPIABF					79	17		3		1				99
	CPIABMG					86	18	6			11				147
	CPIABMGS					20	3		4						27
	CPICDF	t		9	2	1,012	14	3	5		6				1,052
	CPICDMG					289	4	6							304
		<del>                                     </del>									E	_		_	
	CSbalal	<del>                                     </del>	<u> </u>			48	22	6			5	0		8	
	CSwalal					1		_	6		43				50
	CSwalalS	ļ						3	41		22			<u> </u>	67
	DCMxalal	<u> </u>	<u> </u>			3		2							į
O:			L	9	2	1,545	77	26	114		89	0		8	1,870
Simonette Total	CDMxalal				29	11									40
		<del></del>		5	Ť	98				7					109
					2	49									52
	CPIABMG														. 52
	CPIABMG CPIABMGS				3	- 10		0							
	CPIABMG CPIABMGS CPICDF				3			0	2		0				
	CPIABMG CPIABMGS CPICDF CPICDMG					106		6	0		8				13 <sup>-</sup>
	CPIABMG CPIABMGS CPICDF CPICDMG CSbalal				3			6 15			8				13 <sup>-</sup>
	CPIABMG CPIABMGS CPICDF CPICDMG CSbalal CSwalal				3			6 15 2	2		8				13 <sup>-</sup>
	CPIABMG CPIABMGS CPICDF CPICDMG CSbalal				3			6 15	2		8	13			13 <sup>-</sup>
Simonette Total Smoky	CPIABMG CPIABMGS CPICDF CPICDMG CSbalal CSwalal		50	13	3			6 15 2	2		8	13			13° 15° 25° 17°
	CPIABMG CPIABMGS CPICDF CPICDMG CSbalal CSwalal CSwalalS		50	13	10	106		6 15 2	2		8	13			13 1: 5: 17:
	CPIABMG CPIABMGS CPICDF CPICDMG CSbalal CSwalal CSwalalS DAwalal		50		3 10 74	106		6 15 2	39	7	8	13			13 <sup>-</sup>

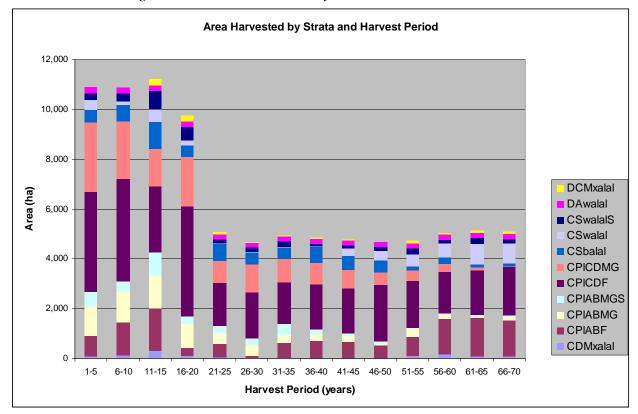


Figure 8-13: Area Harvested by Strata and Harvest Period

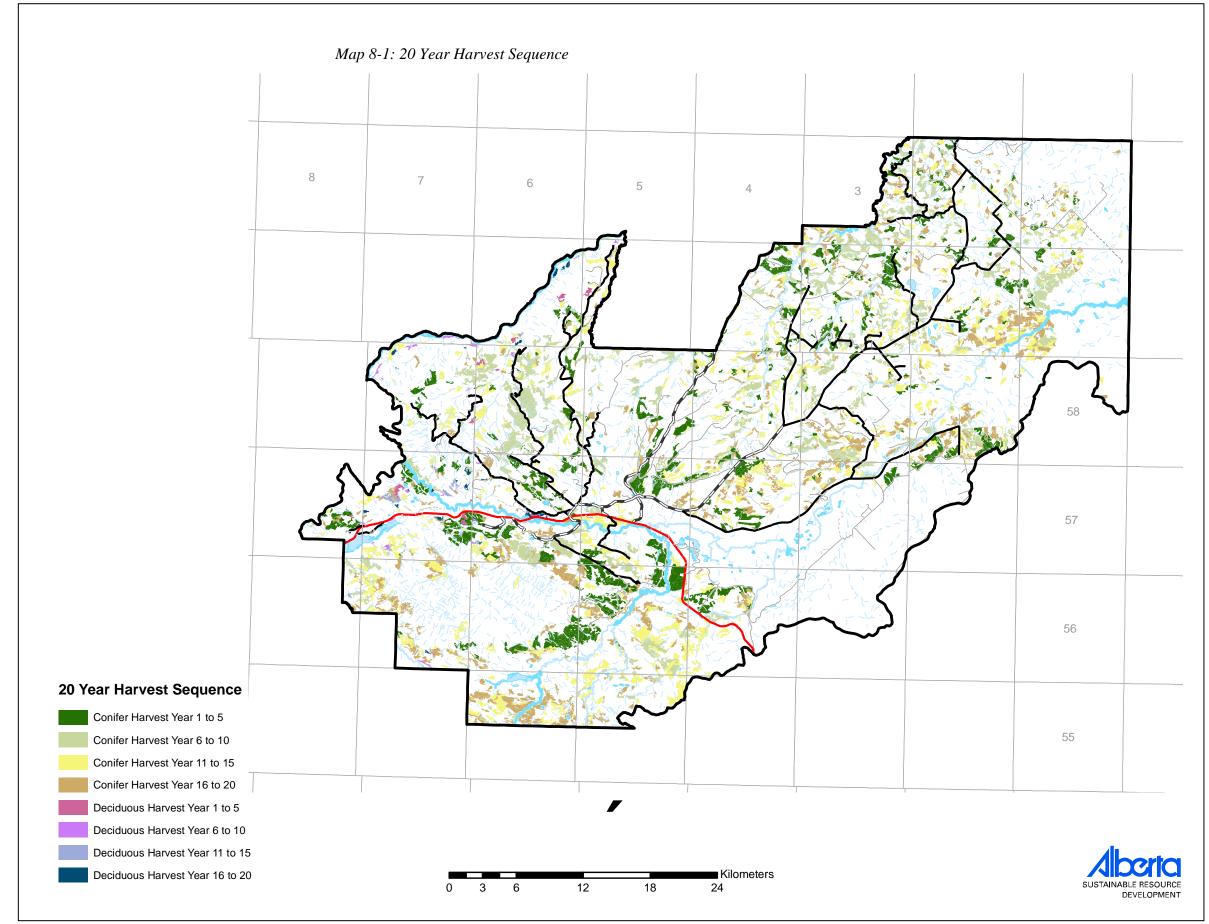
#### **Future Forest Condition**

As required under Section 5.10 of Annex 1 of the Planning Standard, a database containing the state of the forest on a polygon by polygon basis has been provided as referenced in Section 10.3. The data dictionary for this database can be found in the Future Forest Condition section of Reference Section.

# **Spatial Harvest Sequence Map**

Map 8-1 shows the 20 year spatial harvest sequence selected through the PFMS process. While this map is provided in an 11" x 17" format, a full size map sheet of the SHS is provided in Reference Section in the "Harvest Schedule - 20 Year Spatial Harvest Sequence" section.

In keeping with the requirement of Section 5.11 of Annex 1 of the Planning Standard, a database containing the data requested under Section 5.11 of Annex 1, that can be linked to the net landbase shape file, has been provided as referenced in Section 10.3. The data dictionary for this database can be found in the "Harvest Schedule – 20 Year Spatial Harvest Sequence" section of Reference Section.



# MPB Planning

Two requirements of the Mountain Pine Beetle Interpretive Bulletin are that a Healthy Pine Forest Strategy and a MPB Outbreak Scenario be evaluated as part of the MPB FMP process. The Healthy Pine Forest Strategy has also been referred to as the 75% Reduction Strategy, while the MPB Outbreak Strategy has also been known as the Disaster Scenario. Section 9.1 discusses the analysis for the E8 FMU utilizing the Healthy Pine Forest Strategy criteria and results, while section 9.2 discusses the MPB Outbreak Scenario criteria and results. An additional section, 9.3, discusses the reduction of Rank 1 and Rank 2 pine stands under the PFMS.

## **Healthy Pine Strategy**

The direction of the MPB Interpretive Bulletin in evaluating the Healthy Pine Strategy is to "Reduce the area of susceptible pine stands in the Rank 1 and Rank 2 categories in the Sustained Yield Unit (SYU) to 25% of that projected in the currently approved FMP at a point twenty years into the future."

This analysis had a constraint set to reduce the area of *operable* susceptible pine stands in the Rank 1 and Rank 2 categories in the E8 FMU to 25% of that currently on the landscape at a point twenty years into the future. The Healthy Pine Strategy model run was completed prior to the decision to amalgamate the regular conifer landbase and small wood conifer landbase into a single landbase. For reporting purposes the two AACs have simply been added together to report this AAC here. The AAC shown in Table 9-1 is only the conifer volume from the conifer landbase, net of cull. Figure 9-1 graphically demonstrates the two primary conifer flow periods under this scenario.

*Table 9-1: Healthy Pine Strategy 75% Reduction of Rank 1 and 2 Pine Stands* 

Landbase	Yield Component	Flow Period					
		Year 1 - 20	Year 21 - 200				
Conifer	Conifer	844,436	217,802				



Figure 9-1: Healthy Pine Strategy 75% Reduction of Rank 1 and 2 Pine Stands

## **MPB Outbreak Scenario**

The intent of the MPB outbreak scenario is to determine the impact to the conifer AAC in the face of a worst case MPB infestation. The criteria utilized the AAC from the PFMS and then assumed massive pine mortality ten years into the future. The criteria for evaluating the MPB outbreak scenario are as follows:

- Set the AAC at the harvest rate as determined under the PFMS (which includes MPB Rank 1 & 2 Pine stand reduction targets, but not at the 75% reduction level as specified under the Mountain Pine Beetle Interpretive Bulletin), known as "Harvest Rate A";
- Assume massive pine mortality in 10 years;
- Assume harvest of salvage to continue at "Harvest Rate A" for the next 10 years (years 11 to 20);
- Stands that are salvaged return at normal regeneration transition and normal regen lags.

For stands that aren't salvaged the following rules apply:

- For stands with greater than 60% pine content, assume entire stand mortality (mortality applies to stands that are 20 years and older). Stand goes onto the lowest density yield curve for (e.g. AB density) that strata with a 15-year regen lag. Stand age reset to 0;
- For stands with less than or equal to 60% pine content, the approved yield curves from the last DFMP are reduced to remove the pine content, on a proportionate basis, and the stand continues to grow at it's current age (stand age is not reset to 0). No assumption is made for stand release due to opening of the canopy by the pine mortality;
- Calculate an evenflow AAC for years 21 to 200 using normal planning criteria.

The AAC shown in Table 9-2 is only the primary conifer volume from the conifer landbase, net of cull.

Table 9-2: MPB Outbreak Scenario

Landbase	Yield Component		Flow Period	
		Year 1 - 10	Year 11 - 20	Year 21-200
		PFMS Rate	Salvage	Post Outbreak
Conifer	Conifer	450,951	450,951	133,841

Figure 9-2 graphically demonstrates the two flow periods under this scenario. It is important to remember that the volume from the second ten year harvest period is comprised entirely of salvage of beetle killed stands. Again this demonstrates the worst case scenario that is currently envisioned

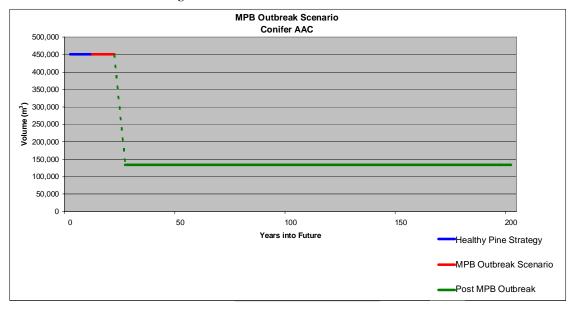


Figure 9-2: MPB Outbreak Scenario

## Rank 1 and Rank 2 Pine Stand Reduction under PFMS SHS

A reduction level target for operable Rank 1 and Rank 2 pine stands had been set at 55% as part of the aspatial analysis of the PFMS. After the SHS had been selected the selected harvest sequence was played back through the timber supply model to determine the actual reduction levels achieved. After 20 years of harvesting at an accelerated rate, the amount of operable Rank 1 and Rank 2 stands will have been reduced by 48%, while the total amount of Rank 1 and Rank 2 stands will been reduced by 29%. The difference between the aspatial target constraint and the achieved reduction area is primarily due to the decrease in harvest level through spatial harvest sequencing. Figure 9-3 shows the reduction of operable and all Rank 1 and Rank 2 pine stands.

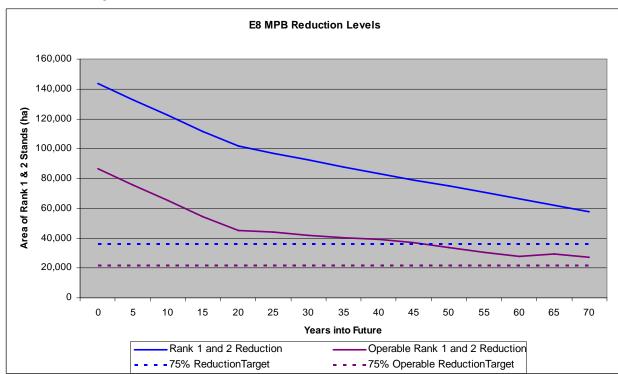


Figure 9-3: Rank 1 and Rank 2 Pine Stand Area Reduction Achieved

### Data

Data used in this analysis is found on the enclosed DVD entitled "E8 Timber Supply Analysis Documentation".

### **Net Landbase**

The net landbase used for this analysis, including the harvest sequence information is included on the DVD in the "Landbase" directory. The net landbase file is in the form of a shape file ("E8\_Net9.\*"), with the data file structure conforming to the landbase data dictionary provided in "Table 5-2" of the "Landbase Determination" document. The net landbase document "Landbase Determination" is included in the "Landbase" directory, titled "E8 Net Landbase.pdf".

### **Growth & Yield**

All yields for this analysis have been calculated at a 13+/7 utilization standard The yield report, named "E8 13 07 Yield Documentation.pdf", can be found in the "Yield" directory.

## **Timber Supply Analysis**

The Woodstock timber supply analysis model used in the calculation of the PFMS AAC "TSA/Woodstock" directory. This document ("Timber Supply Analysis") titled "E8 Timber Supply Analysis.pdf" is included in the "TSA" directory.

In meeting the requirement of Section 5.10 of Annex 1 of the Planning Standard, the Future Forest Condition section of Reference Section contains the database structure of the data file titled "5\_10\_future\_condition.dbf" found in the "Future Forest" directory in the "TSA/Woodstock" directory of the enclosed data DVD. This file provides a polygon by polygon state of the forest at 0, 10, 20 and 50 years based on the SHS.

As discussed in Section 8.11, a database containing the timber supply outputs as required under Section 5.11 of Annex 1 of the Planning Standard has been included on the enclosed DVD. The "Harvest Schedule – 20 Year Spatial Harvest Sequence" section of Reference Section contains the database structure of the data file titled "5\_11\_LinkTable.dbf" found in the "SHS Data" directory in the "TSA/Woodstock" directory. This database can be directly linked to the net landbase file, which contains the SHS referred to in Section 10.1 above, by the REMSOFT\_ID field.

Reference Section: Harvest Schedule and Future Forest Condition

## Harvest Schedule – 20 Year Spatial Harvest Sequence

As referenced in Section 8.11, Table App-1 serves as the data dictionary for the data file containing the timber supply outputs, "5\_11\_LinkTable.dbf".

Table App-1: Future Forest Condition Data Dictionary

Field Name	Data Type	Width	# Decimals	Description
REMSOFT_ID	Numeric	20	4	Remsoft assigned ID - 1,000,001 and greater
F_AGECLS	Numeric	6	0	Ageclass of the polygon in periods (5 years per period)
F_AREA	Numeric	20	4	Area in hectares of polygon
THEME2	Character	15		Yield curve assignment  CPIABF CPIABMG Pine, AB density, F TPR CPIABMGS Pine, AB density, M/G TPR CPICDF Pine, CD density, F TPR CPICDMG CSbalal Black Spruce, all densities, all TPRs CSwalalS White Spruce, all densities, all TPRs CSwalal DAwalal DCMxalal Conifer/Decid mixedwood, all densities, all TPRs CCompalal CCompalal Composite conifer
CUT PERIOD	Numeric	6	0	Period polygon scheduled for harvest
ACTION	Numeric	6		Woodstock action accessing stand  1 Conifer Harvest 2 Deciduous Harvest
HARVAGE	Numeric	6	0	Ageclass of the polygon at harvest, at specified CUT_PERIOD, in periods (5 years per period)
CONPCSIZE	Numeric	20	4	Average primary conifer piece size for polygon represented as stems/m <sup>3</sup>
DECPCSIZE	Numeric	20	4	Average primary deciduous piece size for polygon represented as stems/m <sup>3</sup>
NETCONVOL	Numeric	20	4	Total net conifer volume in polygon in m <sup>3</sup>
NETDECVOL	Numeric	20	4	Total net deciduous volume in polygon in m <sup>3</sup>
CONVOLHA	Numeric	20	4	Gross conifer volume per hectare in polygon
CONVOLHA	Numeric	20	4	Gross conifer volume per hectare in polygon

The attached map, as referenced in Section 8.11, provides the 20 year spatial harvest sequence based on the PFMS criteria.

## **Future Forest Condition**

As referenced in Section 8.7, Table App-2 serves as the data dictionary for the data file containing the future forest condition, "5\_10\_future\_condition.dbf".

Table App-2: Future Forest Condition Data Dictionary

Field Name	Data Type	Width	# Decimals	Description
TH1	Character	5		Woodstock theme 1 - Landbase
				Con Conifer
				SmCon Smallwood conifer
				Dec Deciduous
TH2	Character	15		Yield curve assignment
				CPIABF Pine, AB density, F TPR
				CPIABMG Pine, AB density, M/G TPR
				CPIABMGS Pine, AB density, M/G TPR Smallwood stands
				CPICDF Pine, CD density, F TPR
				CPICDMG Pine, CD density, M/G TPR
				CSbalal Black Spruce, all densities, all TPRs
				CSwalal White Spruce, all densities, all TPRs
				CSwalalS White Spruce, all densities, all TPRs Smallwood stands
				DAwalal Deciduous, all densities, all TPRs
				CDMxalal Conifer/Decid mixedwood, all densities, all TPRs
				DCMxalal Decid/Conifer mixedwood, all densities, all TPRs
T. 15	01			CCompalal Composite conifer
TH5	Character	8		Woodstock theme 5 - Active/Passive landbase
				Net Net or active landbase
TH6	Character	5		Passive Passive landbase Woodstock theme 6 - Interpretive Bulletin MPB ranking
1 110	Character	5		Rank0 Rank 0 stands
				Ranku Rank u stands Rank1 Rank 1 stands
				Rank2 Rank 2 stands
TH9	Character	4		Woodstock theme 9 - Compartment name
1119	Character	4		Bolt Bolton Creek
				Deep Deep Valley
				Huck Huckleberry
				Musk Muskeg
				Simo Simonette
				Smok Smoky
AGE	Numeric	3	0	Ageclass of the polygon in periods (5 years per period)
AREA	Numeric	10		Area in hectares of polygon
PERIOD	Numeric	3	0	5 year period the state of the polygon is attributed to
RANK12AREA	Numeric	7	2	Pine stand ranking of 1 or 2 binary switch
				0 Polygon not a Rank 1 or Rank 2 pine stand
				1 Polygon classified as a Rank 1 or Rank 2 pine stand
RANK120PAR	Numeric	7	2	Operable pine stand ranking of 1 or 2 binary switch
				0 Polygon not an operable Rank 1 or Rank 2 pine stand
				1 Polygon classified as an operable Rank 1 or Rank 2 pine stand
CONGROWPUR	Numeric	7		Volume in m <sup>3</sup> /ha of primary conifer growing stock of polygon at time specified by PERIOD
CONGROWINC	Numeric	7		Volume in m <sup>3</sup> /ha of secondary conifer growing stock of polygon at time specified by PERIOD
DECGROW	Numeric	7	2	Volume in m <sup>3</sup> /ha of primary deciduous growing stock of polygon at time specified by PERIOD
DECGROWINC	Numeric	7	2	Volume in m³/ha of secondary deciduous growing stock of polygon at time specified by PERIOD
OPCONGROW	Numeric	7	2	
OPDECGROW	Numeric	7	2	
REGENSERAL	Numeric	7	2	Regenerating seral state binary switch
Ī				0 Polygon not in regenerating seral state
				1 Polygon in regenerating seral state
YOUNGSERAL	Numeric	7	2	Young seral state binary switch
				0 Polygon not in young seral state
				1 Polygon in young seral state
MATURESERAL	Numeric	7	2	Mature seral state binary switch
				0 Polygon not in mature seral state
				1 Polygon in mature seral state
EARLYOLDGR	Numeric	7	2	Early old growth seral state binary switch
				0 Polygon not in early old growth seral state
				1 Polygon in early old growth seral state
LATEOLDGRO	Numeric	7	2	Late old growth seral state binary switch
ĺ				Polygon not in late old growth seral state
				1 Polygon in late old growth seral state

Two maps have been attached to this section. The first provides snapshots of the seral stage distribution in the E8 FMU for years 0, 10, 20, and 50 based on the PFMS SHS. The second provides snapshots of the patch size distribution in the E8 FMU for years 0, 10, and 50 based on the PFMS SHS.