

# ANEJO N°5 VIALES Y MOVIMIENTO DE TIERRAS

## ÍNDICE

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### MEMORIA

1. INTRODUCCIÓN.....	1
2. NORMATIVA.....	2
3. ETAPAS DE EJECUCIÓN .....	3
4. MOVIMIENTO DE TIERRAS.....	3
4.1 METODOLOGÍA .....	3
4.2 CLASIFICACIÓN DE LOS MATERIALES.....	3
5. FIRMES.....	4
5.1 EXPLANADA MEJORADA.....	4
5.2 SECCIONES DE FIRME Y MATERIALES.....	5
6. CRITERIOS DE DISEÑO Y CARACTERÍSTICAS DEL TRAZADO.....	8
7. TRAZADO .....	8
7.1 TRAZADO EN PLANTA.....	8
7.2 TRAZADO EN ALZADO .....	9
8. SECCIONES TIPO.....	10
9. GLORIETAS.....	12

### ANEJOS

ANEXO I. DEFINICIÓN DE EJES EN PLANTA

ANEXO II. MEDICIONES AUXILIARES MOVIMIENTO DE TIERRAS

## 1. INTRODUCCIÓN

El presente anejo tiene por objeto definir los viales interiores tanto en planta como en alzado de la urbanización de la ampliación de la “Milla del Conocimiento Margaritas Salas” en Gijón | Xixón.

Las características geométricas y los parámetros utilizados para la definición de los viales vienen condicionados por el tipo de vía diseñado y por el viario existente al que conectan. La velocidad de proyecto, radios, secciones, etc., se ajustan a las características marcadas por la documentación urbanística.

La ejecución de la urbanización se ha proyectado en tres etapas temporales, y por tanto el movimiento de tierras se plantea igualmente en estas tres etapas.

Se han definido quince ejes en planta que coinciden con los ejes de los viales y glorietas proyectados para la ejecución del viario mediante el modelado de superficies del programa Model Design Terrain (MDT). A continuación, se listan los ejes proyectados y sus fases de ejecución:

EJE	P.K. INICIAL	P.K. FINAL	LONGITUD (m)	NOMBRE	FASE
1	0+000,000	0+097,335	97,335	Eje 1	UA-1: Fase 1.1
1	0+097,335	0+280,847	183,512	Eje 1	UA-1: Fase 1.2
2	0+000,000	0+398,195	398,195	Eje 2	UA-1: Fase 1.1
3	0+000,000	0+159,532	159,532	Eje 3	UA-1: Fase 1.1
4	0+000,000	0+154,435	154,435	Eje 4	UA-1: Fase 1.1
5	0+000,000	0+262,203	261,918	Eje 5	UA-2: Fase 2
5	0+262,203	0+299,135	36,933	Eje 5	UA-1: Fase 1.1
6	0+000,000	0+008,454	8,454	Eje 6	UA-1: Fase 1.1
6	0+008,454	0+304,872	296,418	Eje 6	UA-1: Fase 1.2
7	0+000,000	0+366,239	366,239	Eje 7	UA-2: Fase 2
7	0+366,239	0+721,402	355,163	Eje 7	UA-1: Fase 1.2
8	0+000,000	0+121,105	121,105	Eje 8	UA-2: Fase 2
9	0+000,000	0+096,183	96,183	Eje 9	UA-2: Fase 2
10	0+000,000	0+109,526	109,526	Eje 10	UA-2: Fase 2
11	0+000,000	0+112,142	112,142	Eje 11	UA-2: Fase 2
12	0+000,000	0+373,008	373,008	Eje 12	UA-2: Fase 2
13	0+000,000	0+092,138	92,138	Eje 13	UA-2: Fase 2

EJE	P.K. INICIAL	P.K. FINAL	LONGITUD (m)	NOMBRE	FASE
14	0+000,000	0+200,968	200,968	Eje 14	UA-1: Fase 1.1
15	0+000,000	0+129,575	129,575	Eje 15	UA-1: Fase 1.1

Mediante la definición de unos perfiles transversales, a lo largo de los ejes por su longitudinal, se definen las áreas y el movimiento de tierras a realizar para la explanación de los viales.

En el Anexo I se adjuntan los listados de definición de los ejes de los viales en planta.

En el tomo de planos se presenta la correspondiente documentación gráfica de los viales interiores de la urbanización a realizar.

## 2. NORMATIVA

- Instrucción de Carreteras 3.1-IC, "Trazado", de 19 de febrero de 2016, de la Dirección General de Carreteras, Secretaria de Estado de Infraestructuras, Transportes y Vivienda del Ministerio de Fomento.
- Orden Ministerial de 16 de diciembre de 1997, por la que se regulan, los accesos a las carreteras del Estado, las vías de servicio y la construcción de instalaciones de servicios.
- Recomendaciones para el Proyecto de Intersecciones, publicadas por la Dirección General de Carreteras del M.O.P.U. en enero de 1967.
- Instrucción 5.2-IC "Drenaje Superficial", de 15 de febrero de 2016, publicadas por la Dirección General de Carreteras, Secretaria de Estado de Infraestructuras, Transportes y Vivienda del Ministerio de Fomento.
- Instrucción de Carreteras 8.1-IC "Señalización Vertical", de la Instrucción de Carreteras aprobada por Orden Ministerial de 20 de marzo de 2014.
- Norma 8.2-IC "Marcas Viales", aprobada por Orden Ministerial de 16 de julio de 1987.
- Norma de Carreteras 8.3-IC "Señalización de Obras", aprobada por Orden Ministerial de 31 de agosto de 1987 (modificada parcialmente por Decreto 208/89, de 3 de febrero).
- Orden Circular 35/2014 de 19 de mayo de 2014, por la que se aprueban los "Criterios de aplicación de sistemas de contención de vehículos".
- Trayectorias de giro de vehículos a baja velocidad. Dirección General de Carreteras. (Agosto 1988).
- Recomendaciones sobre glorietas. Dirección General de Carreteras (Mayo 1989).

### 3. ETAPAS DE EJECUCIÓN

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Las obras de urbanización para la ampliación de la “Milla del Conocimiento Margarita Salas” se van a ejecutar en tres fases temporales. Los viales se han numerado entre 1 y 15, correspondiendo con la numeración empleada en su descripción en el resto de documentos que integran el Proyecto.

En la fase 1.1 se ejecutará el movimiento de tierras correspondiente a los ejes 1 (del P.K. 0+000 al PK 0+97,335), 2, 3, 4, 5 (del P.K. 0+262,203 al P.K. 0+299.135), eje 6 (del P.K. 0+000 al P.K. 0+8,454), 14 y 15. Durante la fase 1.2 se realizarán los movimientos de tierras correspondientes a los ejes 1 (del P.K. 0+97,335 al P.K. 0+ 280,847) , eje 6 (del P.K. 0+8,454 al P.K. 0+304,872) y eje 7 (del P.K. 0+366,239 al P.K. 0+304,872). Por último, en la fase 2 se realizarán los movimientos de tierras correspondientes a los ejes 5 (del P.K. 0+000 al P.K. 0+262,203), eje 7 (del P.K. 0+000 al P.K. 0+366,239), 8, 9, 10, 11, 12 y 13.

### 4. MOVIMIENTO DE TIERRAS

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#### 4.1 METODOLOGÍA

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En este apartado se exponen las mediciones detalladas del movimiento de tierras a ejecutar para la realización de la red viaria.

Todos los cálculos empleados en el presente apartado parten del resultado obtenido en el programa Model Design Terrain (MDT) desarrollado para aplicaciones Autodesk y de extendido uso en el sector. Dicho programa, ofrece la posibilidad de analizar los volúmenes resultantes perfil a perfil, lo que resulta útil no solo para realizar la compensación longitudinal de tierras, sino la transversal.

#### 4.2 CLASIFICACIÓN DE LOS MATERIALES

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De acuerdo al Estudio Geotécnico, el material procedente de excavación se clasifica como marginal, no siendo adecuado para su uso en obras de tierra. Únicamente, la unidad geotécnica UG-2 (depósitos de estuario) podría aprovecharse para la ejecución de la cimentación y del núcleo de rellenos de tipo terraplén. Sin embargo, este material no puede emplearse para la formación de la explanada mejorada de los viales. Además, esta unidad geotécnica solamente se encuentra con una potencia reseñable de orden métrico en el sureste del ámbito. Con la campaña geotécnica disponible no se puede establecer el volumen de tierras que podría ser aprovechado para rellenos de tipo terraplén, pero que en cualquier caso no será de gran entidad. Por otro lado, el volumen de tierras necesarias para la formación del cimiento y del núcleo de terraplenes es mínimo en esta urbanización. Por consiguiente, se ha estimado que los volúmenes de tierras procedentes del desmonte no son aprovechables y deben destinarse a vertedero o lugar de empleo fuera de la obra. No obstante, durante la ejecución de las obras, deberá valorarse su aprovechamiento.

Al no existir compensación de tierras en el Proyecto, las tierras para relleno y para formación de la explanada del Proyecto se deberán aportar de préstamo.

Se ha considerado a efectos de Proyecto un espesor medio de tierra vegetal de 50 cm, que se utilizará posteriormente en las zonas verdes del ámbito.

En las mediciones auxiliares que se adjuntan en el Anexo II de este documento se presentan los listados de volúmenes empleados en los cálculos realizados en este proceso.

## 5. FIRMES

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### 5.1 EXPLANADA MEJORADA

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Según se desprende del Anejo correspondiente al estudio de tráfico y firmes, se obtienen las subcategorías de tráfico pesado T31 y T41. Siguiendo las indicaciones de los técnicos del Ayuntamiento de Gijón | Xixón se considera una única explanada para toda la red de viales, proponiéndose obtener una explanada tipo E2.

La categoría de la explanada viene determinada por el terreno subyacente sobre el que se apoye. Es decir, por el material utilizado en la formación de rellenos de tipo terraplén y por el terreno natural en la zona de desmontes.

En este caso, los rellenos previstos no alcanzan alturas importantes, siendo inferiores a los espesores de material necesarios que permitan clasificar el terreno como tal a efectos de apoyo sobre su superficie. Por otro lado, según el Estudio Geotécnico, el tipo de suelo de la explanación se clasifica como marginal, no siendo adecuado para la formación de la explanada de apoyo del firme de los viales. Siendo, por consiguiente, precisa la formación de una explanada mejorada para todos los viales.

Entre las diferentes alternativas que se exponen en el catálogo de explanadas mejoradas de la Instrucción de Carreteras 6.1 IC, se considera como solución más conveniente su formación con 100 cm de material seleccionado con  $CBR \geq 10$  según el artículo 330 del PG3-3. En la capa superior empleada para la formación de la explanada, el suelo adecuado deberá tener un  $CBR \geq 12$ .

Los espesores establecidos serán valores mínimos en cualquier punto de la sección transversal, cuya ejecución se controlará mediante el ensayo de carga con placa, según la norma NLT-357/98. El valor mínimo del módulo de compresibilidad  $E_{v2}$  obtenido en el segundo ciclo de ensayo será mayor o igual que 120 MPa.

Durante la etapa constructiva la pendiente transversal de coronación de terraplén o fondo de desmonte será al menos del 4%, y la del plano final de la explanada será la misma que la de la superficie del pavimento en ese punto.

## 5.2 SECCIONES DE FIRME Y MATERIALES

### 5.2.1 Secciones de firme de calzadas

Para el dimensionamiento del firme se han seguido las directrices de los técnicos municipales, empleando los materiales y la sección tipo del Ayuntamiento de Gijón | Xixón, consistente en un firme flexible sobre capa granular.

En los viales con categoría de tráfico pesado tipo T31 (ejes 1, 2, 4, 7 y 8):

Mezcla bituminosa en caliente para rodadura AC-16 Surf D.....	5 cm
Mezcla bituminosa en caliente para capa intermedia AC-22 Bin S .....	.10 cm
Base de escoria clasificada.....	30 cm
Sub-base de escoria de foso .....	40 cm

En los viales con categoría de tráfico pesado tipo T41 (ejes 3, 6, 9, 11, 12 y 13):

Mezcla bituminosa en caliente para rodadura AC-16 Surf D.....	5 cm
Mezcla bituminosa en caliente para capa intermedia AC-22 Bin S .....	.6 cm
Base de escoria clasificada.....	30 cm
Sub-base de escoria de foso .....	40 cm

El eje 5 corresponde a un vial singular, con una sección de firme y acabados diferenciados del resto de la urbanización. Por otra parte, el eje 10 permite el acceso a una playa de aparcamiento, ejecutándose todo a la misma cota y con un acabado de calzada también diferenciado.

En los ejes 5 y 10:

Losa de hormigón HF-3,5 (armado con fibras de polipropileno) .....	20 cm
Base de escoria clasificada.....	30 cm
Sub-base de escoria de foso .....	40 cm

La sección de firme a ejecutar en las actuaciones exteriores consistirá en lo siguiente:

En la continuación del eje 6 (camino de Los Claveles) y ejes 4 y 13:

Mezcla bituminosa en caliente para rodadura AC-16 Surf D.....	5 cm
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### 5.2.2 Secciones de firme de bandas de aparcamiento

Para las bandas de aparcamiento en línea a los lados de la calzada del sistema viario se proyectan las siguientes secciones que varían en función del vial con el objeto de unificar la rasante superior de la explanada.

En los ejes 1, 2, 4, 7, 8 y 14:

Pieza prefabricada de hormigón.....	12 cm
Arena 0-3 mm o gravillín 2-5 mm ofítico.....	3 cm
Base de escoria clasificada.....	30 cm
Sub-base de escoria de foso.....	40 cm

En los ejes 3, 6, 9, 11, 12 y 13:

Pieza prefabricada de hormigón.....	12 cm
Arena 0-3 mm o gravillín 2-5 mm ofítico.....	3 cm
Base de escoria clasificada.....	26 cm
Sub-base de escoria de foso.....	40 cm

En el eje 5:

Pieza prefabricada de hormigón.....	12 cm
Arena 0-3 mm o gravillín 2-5 mm ofítico.....	3 cm
Base de escoria clasificada.....	35 cm
Sub-base de escoria de foso.....	40 cm

### 5.2.3 Secciones de firme de aceras

Análogamente se plantea la siguiente sección para las aceras de todos los ejes, excepto para los ejes 5 y 15:

Losa de hormigón HM-20.....	20 cm
Base de zahorra artificial drenante ZAD 0/20.....	20 cm

Además, en estas aceras se plantean franjas longitudinales con un pavimento de piezas de hormigón prefabricado con junta abierta, según detalles que se indican en la documentación gráfica del Documento nº2 Planos.

En el caso de que la sección incluya bajo el pavimento un SUDS, la sección estará formada por un pavimento de piezas prefabricadas con junta abierta:

Adoquín prefabricado de hormigón + separador.....	6,5 cm
Arena 0-3 mm o gravillín 2-5 mm, de naturaleza ofítica.....	4,5 cm
Base de zahorra artificial drenante ZAD 0/20.....	29 cm

Entre la arena o el gravillín y la base de zahorra drenante, se colocará un geocompuesto drenante.

En el caso de que bajo el pavimento de piezas prefabricadas con junta abierta no se incluya un SUDS, la sección estará igualmente formada por la misma sección anterior.



En el eje 5, debido a su singularidad, se plantea la siguiente sección para la acera, en lugar de la losa de hormigón:

Adoquín prefabricado de hormigón (varios tamaños) .....	8 cm
Arena 0-3 mm o gravillín 2-5 mm, de naturaleza ofítica .....	3 cm
Base de zahorra artificial drenante ZAD 0/20.....	29 cm

Asimismo, se plantean las mismas franjas longitudinales de piezas prefabricadas con junta abierta con la misma sección descrita.

En la actuación exterior de conexión peatonal con la Laboral (eje 15):

Se plantea la siguiente sección:

Losa de hormigón HM-20 .....	15 cm
Sub-base de zahorra artificial ZA 0/20 .....	15 cm

#### **5.2.4 Secciones de firme de playa de aparcamientos**

Para los viales y plazas reservadas a personas con movilidad reducida:

Losa de hormigón HF-3,5 (armado con fibras de polipropileno) .....	20 cm
Base de escoria clasificada.....	30 cm
Sub-base de escoria de foso .....	40 cm

Se realizarán juntas transversales cada 5 m. El acabado de la superficie de la losa será fratasado con helicóptero.

Para las zonas de aparcamiento:

Pieza prefabricada de hormigón .....	12 cm
Arena 0-3 mm o gravillín 2-5 mm, de naturaleza ofítica .....	3 cm
Base de escoria clasificada.....	30 cm
Sub-base de escoria de foso .....	40 cm

Para las aceras:

Losa de hormigón HM-20 .....	20 cm
Sub-base de zahorra artificial ZA 0/20 .....	20 cm

#### **5.2.5 Secciones de firme de carril bici**

Se plantea la siguiente sección:

Mezcla bituminosa en caliente para rodadura AC-16 SURF D color rojo.....	4 cm
Base de escoria clasificada.....	25 cm

## 6. CRITERIOS DE DISEÑO Y CARACTERÍSTICAS DEL TRAZADO

Para el diseño del trazado de los viales se han considerado unos criterios que han dado como resultado las características del trazado finales. A continuación se presentan los aspectos más importantes del trazado:

PARÁMETROS DE DISEÑO	
Velocidad de proyecto	30 km/h 10 km/h (viales de plataforma compartida)
TRAZADO EN PLANTA	
Radio mínimo	20 m
TRAZADO EN ALZADO	
Pendiente máxima	3,20%
Pendiente mínima	0,50%
SECCIONES TIPO	
Carriles	3,5
Peralte	1%
Bombeo	2%

## 7. TRAZADO

### 7.1 TRAZADO EN PLANTA

En los correspondientes planos de planta se ha definido el trazado de la totalidad de los ejes necesarios para la definición del presente proyecto.

Para la conexión entre los distintos viales se han diseñado glorietas. Todas las glorietas planteadas cuentan con un radio interior de 8 metros.

A continuación, se presenta la relación de ejes con su longitud y denominación, incluyendo las etapas en las que se ejecutan.

EJE	P.K. INICIAL	P.K. FINAL	LONGITUD (m)	FASE
1	0+000,000	0+097,335	97,335	UA-1: Fase 1.1
1	0+097,335	0+280,847	183,512	UA-1: Fase 1.2

EJE	P.K. INICIAL	P.K. FINAL	LONGITUD (m)	FASE
2	0+000,000	0+398,195	398,195	UA-1: Fase 1.1
3	0+000,000	0+159,532	159,532	UA-1: Fase 1.1
4	0+000,000	0+154,435	154,435	UA-1: Fase 1.1
5	0+000,000	0+262,203	261,918	UA-2: Fase 2
5	0+262,203	0+299,135	36,933	UA-1: Fase 1.1
6	0+000,000	0+008,454	8,454	UA-1: Fase 1.1
6	0+008,454	0+304,872	296,418	UA-1: Fase 1.2
7	0+000,000	0+366,239	366,239	UA-2: Fase 2
7	0+366,239	0+721,402	355,163	UA-1: Fase 1.2
8	0+000,000	0+121,105	121,105	UA-2: Fase 2
9	0+000,000	0+096,183	96,183	UA-2: Fase 2
10	0+000,000	0+109,526	109,526	UA-2: Fase 2
11	0+000,000	0+112,142	112,142	UA-2: Fase 2
12	0+000,000	0+373,008	373,008	UA-2: Fase 2
13	0+000,000	0+092,138	92,138	UA-2: Fase 2
14	0+000,000	0+200,968	200,968	UA-1: Fase 1.1
15	0+000,000	0+129,575	129,575	UA-1: Fase 1.1

En el Anexo I se presentan los listados de definición del trazado en planta de todos los ejes.

## 7.2 TRAZADO EN ALZADO

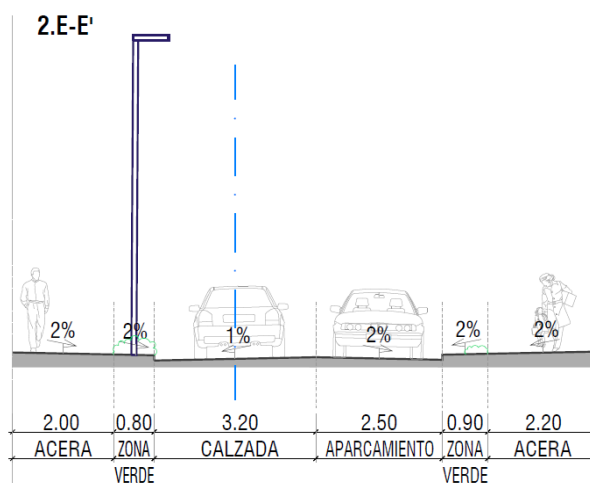
El trazado en alzado queda reflejado en los perfiles longitudinales que se incluyen en este proyecto. Para la definición del mismo, se ha tenido en cuenta sus características, no diferenciando en demasía la cota de rasante de los viales respecto a la de las parcelas. Asimismo, se ha prestado especial atención a la seguridad de la circulación minimizando los costes de construcción. También se ha coordinado el trazado en alzado para evitar puntos angulosos y pérdidas de trazado. De esta manera el usuario percibirá adecuadamente el tipo de vía en que se encuentra, así como la limitación genérica de velocidad a ella asociada, de forma que puede prever el comportamiento de los otros conductores.

## 8. SECCIONES TIPO

La definición de la sección transversal debe tomar en consideración varios condicionantes, como la capacidad de la vía, su construcción y conservación, y finalmente el coste de la explotación que redunda tanto en la fluidez como en la seguridad de la circulación. Así mismo, las secciones seleccionadas deben ser acordes con las secciones de las vías que conectan.

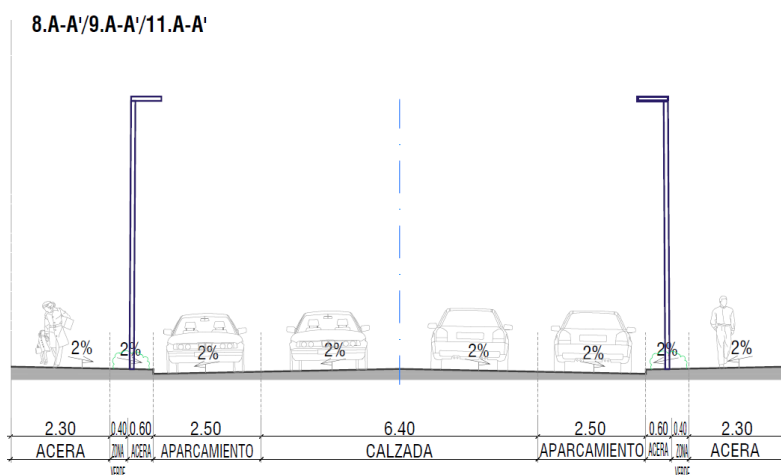
En el apartado correspondiente de este anejo están definidos los paquetes de firme de las distintas secciones adoptadas, basadas en el Estudio de tráfico y firmes del proyecto. En el presente apartado se definen las características generales de las diferentes secciones tipo de los viales proyectados.

En función del tipo de sección proyectada para cada tramo, el ancho total de la misma variará entre 6,5 m y 25 m.



Los viales con dos sentidos de circulación (ejes 1, 7, 8, 9, 11, 12 y un tramo del eje 2) contarán con una anchura total de calzada de 6,40 m, mientras que los carriles con un único sentido de circulación contarán un ancho total de 3,20 m. Exceptuando los ejes 5, 6 y 10 y las playas de aparcamiento, la calzada se encontrará 10 cm por debajo de la cota de la acera.

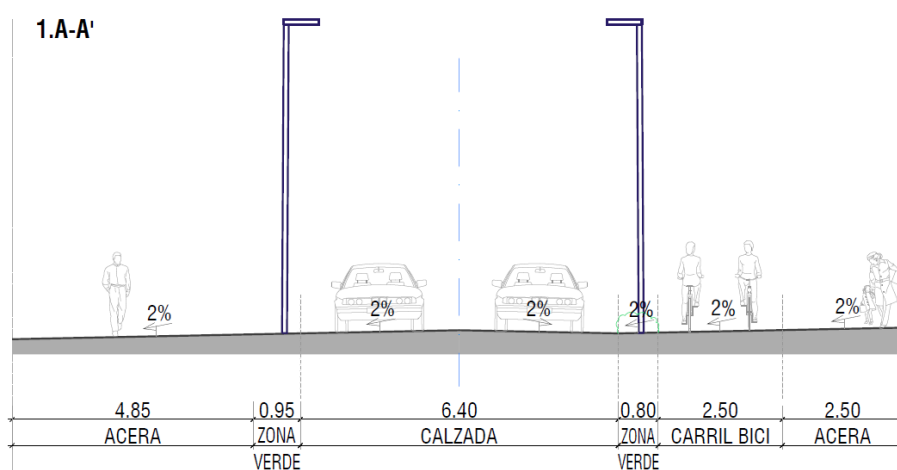
Las bandas de aparcamiento en paralelo contarán con un ancho de 2,50 m y las bandas de aparcamiento en batería previstas en las playas de aparcamiento y en el eje 13, tendrán un ancho de 5 m. El carril bici dispondrá de una anchura total de 2,5 m.



La anchura de las zonas verdes previstas en los viales variará entre 0,3 m y 1,40 m. La anchura de las aceras oscilará entre 0,5 m y 6,50 m.

Las calzadas de doble sentido de circulación dispondrán de doble bombeo al 2%, mientras que las calzadas de un único sentido de circulación estarán peraltadas al 1%. En todos los casos, los aparcamientos y los carriles bici contarán con un bombeo del 2%.

La totalidad de las aceras contarán con un peralte del 2% hacia el interior del vial, exceptuando los tramos de acera de los ejes 1, 7, 5, 12, 13 contiguas a zonas verdes, los cuales verterán a dichas zonas verdes con una pendiente del 2%.



Las separaciones de cada elemento de sección se efectuarán mediante:

- Bordillos montables de granito mecanizado, de 4 y 20 cm de bases superior e interior y 22 cm de altura en la separación entre la calzada y las zonas verdes de las glorietas.
- Caz de hormigón prefabricado HM-3, bicapa, de color gris, de 50x30x12-10 cm entre banda de aparcamiento y la calzada.
- Bordillo recto de granito mecanizado, de canto achaflanado y saltado al fuego, de 10 cm de base y 20 cm de altura y testa con pendiente del 2% entre las aceras de hormigón o de adoquín

sin junta abierta y zonas verdes o aceras con junta abierta.

- Bordillo recto de granito mecanizado, de canto achaflanado y saltado al fuego, de 15 cm de base y 20 cm de altura y testa con pendiente del 2% entre el resto de encuentros no descritos en los puntos anteriores.

En el Documento n°2: Planos, de este proyecto, se incluyen las secciones tipo proyectadas.

## 9. GLORIETAS

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En los entronques de los viales se han dispuesto glorietas como medida regulatoria del tráfico. Tanto la glorieta formada entre los ejes 1, 2 y 5, entre los ejes 1 y 7 y entre los ejes 7 y 8, son de radio interior de 8 metros. Su definición se ha detallado en los apartados anteriores.

La glorieta formada entre los ejes 1, 2 y 5 y la formada por los ejes 7 y 8 resuelven el cruce de sus respectivos ejes. Mientras que la glorieta formada por los eje 1 y 7, resuelve el cruce del eje 7 con el final de eje 1.

En su correspondiente apartado, en el tomo de planos, se han definido geoméricamente las tres glorietas.

## ANEXO I. DEFINICIÓN DE EJES EN PLANTA

### EJE 1 (coordenadas ETRS89)

Tipo	P.K.	Coord. X	Coord. Y	Azimut	Radio	Parámetro	Longitud
Rec	0,000	288255,930	4822686,662	399.5934	0,000	0,000	82,780
Rec	82,780	288255,401	4822769,440	398.4744	0,000	0,000	135,219
Cur	217,999	288252,161	4822904,621	398.4744	-50,000	0,000	26,937
Rec	244,936	288244,466	4822930,096	364.1777	0,000	0,000	35,912
	280,847	288225,309	4822960,471	364.1777			



## EJE 2 (coordenadas ETRS89)

Tipo	P.K.	Coord. X	Coord. Y	Azimut	Radio	Parámetro	Longitud
Rec	0,000	288255,401	4822769,440	110.7868	0,000	0,000	18,842
Rec	18,842	288273,973	4822766,263	112.4764	0,000	0,000	77,499
Rec	96,341	288349,989	4822751,172	116.2206	0,000	0,000	17,013
Rec	113,354	288366,452	4822746,884	115.1274	0,000	0,000	12,010
Rec	125,364	288378,125	4822744,057	112.4764	0,000	0,000	15,035
Cur	140,399	288392,873	4822741,129	112.4764	-60,000	0,000	34,815
Rec	175,214	288427,049	4822744,356	75.5366	0,000	0,000	69,389
Rec	244,603	288491,378	4822770,369	31.1438	0,000	0,000	2,680
Cur	247,283	288492,637	4822772,734	31.1438	40,000	0,000	37,123
Rec	284,405	288521,828	4822793,467	90.2261	0,000	0,000	68,302
Cur	352,708	288589,327	4822803,912	90.2261	61,000	0,000	19,722
Rec	372,429	288608,962	4822803,752	110.8084	0,000	0,000	25,766
	398,195	288634,358	4822799,399	110.8084			

### EJE 3 (coordenadas ETRS89)

Tipo	P.K.	Coord. X	Coord. Y	Azimut	Radio	Parámetro	Longitud
Rec	0,000	288491,378	4822770,369	175.5366	0,000	0,000	44,936
Cur	44,936	288508,223	4822728,710	175.5366	-12,000	0,000	12,229
Rec	57,164	288517,348	4822721,377	110.6617	0,000	0,000	102,367
	159,532	288618,283	4822704,313	110.6617			

#### EJE 4 (coordenadas ETRS89)

Tipo	P.K.	Coord. X	Coord. Y	Azimut	Radio	Parámetro	Longitud
Rec	0,000	288634,358	4822799,399	210.6617	0,000	0,000	154,435
	154,435	288608,615	4822647,124	210.6617			

### EJE 5 (coordenadas ETRS89)

Tipo	P.K.	Coord. X	Coord. Y	Azimut	Radio	Parámetro	Longitud
Rec	0,000	287971,380	4822800,315	164.1777	0,000	0,000	22,879
Cur	22,879	287983,585	4822780,964	164.1777	-20,000	0,000	20,826
Rec	43,704	288001,165	4822771,644	97.8870	0,000	0,000	64,451
Cur	108,156	288065,581	4822773,783	97.8870	31,600	0,000	5,219
Rec	113,374	288070,787	4822773,526	108.4007	0,000	0,000	6,935
Cur	120,309	288077,662	4822772,613	108.4007	-31,600	0,000	5,219
Rec	125,528	288082,868	4822772,356	97.8870	0,000	0,000	57,027
Cur	182,555	288139,863	4822774,248	97.8870	-31,600	0,000	5,219
Rec	187,773	288145,041	4822774,850	87.3734	0,000	0,000	6,935
Cur	194,708	288151,840	4822776,217	87.3734	31,600	0,000	5,219
Rec	199,927	288157,018	4822776,819	97.8870	0,000	0,000	40,966
Cur	240,893	288197,961	4822778,178	97.8870	100,000	0,000	22,917
Rec	263,810	288220,752	4822776,319	112.4764	0,000	0,000	35,325
	299,135	288255,401	4822769,440	112.4764			

### EJE 6 (coordenadas ETRS89)

Tipo	P.K.	Coord. X	Coord. Y	Azimut	Radio	Parámetro	Longitud
Rec	0,000	288366,452	4822746,884	12.4764	0,000	0,000	37,229
Cur	37,229	288373,702	4822783,401	12.4764	50,000	0,000	7,224
Rec	44,454	288375,615	4822790,361	21.6746	0,000	0,000	23,859
Cur	68,312	288383,582	4822812,850	21.6746	-50,000	0,000	18,210
Rec	86,522	288386,438	4822830,732	398.4893	0,000	0,000	13,518
Cur	100,040	288386,117	4822844,247	398.4893	150,000	0,000	36,325
Cur	136,366	288389,639	4822880,312	13.9063	90,000	0,000	51,323
Rec	187,689	288414,071	4822924,657	50.2098	0,000	0,000	32,969
Cur	220,658	288437,461	4822947,893	50.2098	-150,000	0,000	41,288
Rec	261,946	288462,404	4822980,632	32.6868	0,000	0,000	15,903
Cur	277,848	288470,215	4822994,484	32.6868	-60,000	0,000	27,024
	304,872	288477,832	4823020,174	4.0135			

### EJE 7 (coordenadas ETRS89)

Tipo	P.K.	Coord. X	Coord. Y	Azimut	Radio	Parámetro	Longitud
Rec	0,000	287886,988	4822703,974	398.9878	0,000	0,000	57,267
Cur	57,267	287886,077	4822761,234	90.2987	-150,000	0,000	61,546
Rec	118,814	287943,328	4822782,622	64.1777	0,000	0,000	436,389
Cur	555,202	288312,434	4823015,422	64.1777	26,000	0,000	14,412
Rec	569,614	288326,086	4823019,430	99.4653	0,000	0,000	147,173
Cur	716,787	288473,254	4823020,666	99.4653	20,000	0,000	4,614
	721,402	288477,832	4823020,174	114.1536			

### EJE 8 (coordenadas ETRS89)

Tipo	P.K.	Coord. X	Coord. Y	Azimut	Radio	Parámetro	Longitud
Rec	0,000	287886,077	4822761,234	329.7394	0,000	0,000	96,284
Rec	96,284	287800,109	4822804,594	325.1908	0,000	0,000	24,821
	121,105	287777,206	4822814,161	325.1908			

### EJE 9 (coordenadas ETRS89)

Tipo	P.K.	Coord. X	Coord. Y	Azimut	Radio	Parámetro	Longitud
Rec	0,000	287971,380	4822800,315	364.1777	0,000	0,000	109,279
	109,279	287913,083	4822892,745	364.1777			



### EJE 10 (coordenadas ETRS89)

Tipo	P.K.	Coord. X	Coord. Y	Azimut	Radio	Parámetro	Longitud
Rec	0,000	288050,887	4822850,461	364.1777	0,000	0,000	112,245
	112,245	287991,008	4822945,400	364.1777			

### EJE 11 (coordenadas ETRS89)

Tipo	P.K.	Coord. X	Coord. Y	Azimut	Radio	Parámetro	Longitud
Rec	0,000	288130,394	4822900,607	364.1777	0,000	0,000	113,710
	113,710	288069,733	4822996,785	364.1777			

## EJE 12 (coordenadas ETRS89)

Tipo	P.K.	Coord. X	Coord. Y	Azimut	Radio	Parámetro	Longitud
Rec	0,000	287800,109	4822804,594	29.7394	0,000	0,000	20,052
Cur	20,052	287809,140	4822822,498	29.7394	20,000	0,000	12,273
Rec	32,325	287817,584	4822831,137	68.8046	0,000	0,000	15,174
Cur	47,498	287830,972	4822838,279	68.8046	90,000	0,000	19,896
Cur	67,394	287849,415	4822845,634	82.8783	-197,000	0,000	117,798
Rec	185,192	287947,248	4822908,056	44.8111	0,000	0,000	7,845
Cur	193,038	287952,325	4822914,037	44.8111	85,000	0,000	30,842
Cur	223,880	287976,070	4822933,454	67.9108	-340,000	0,000	52,186
Cur	276,065	288019,656	4822962,060	58.1572	341,701	0,000	38,041
Rec	314,107	288051,002	4822983,579	65.2624	0,000	0,000	23,085
Cur	337,192	288070,734	4822995,559	65.2624	120,000	0,000	9,276
Rec	346,468	288078,842	4823000,062	70.1835	0,000	0,000	26,540
	373,008	288102,524	4823012,043	70.1835			

### EJE 13 (coordenadas ETRS89)

Tipo	P.K.	Coord. X	Coord. Y	Azimut	Radio	Parámetro	Longitud
Rec	0,000	287800,109	4822804,594	223.2563	0,000	0,000	15,374
Cur	15,374	287794,617	4822790,234	223.2563	-20,000	0,000	13,882
Cur	29,256	287794,369	4822776,632	179.0684	103,337	0,000	27,691
Cur	56,947	287799,713	4822749,546	196.1276	12,500	0,000	22,968
Rec	79,916	287784,681	4822736,550	313.1047	0,000	0,000	12,222
	92,138	287772,717	4822739,048	313.1047			

### EJE 14 (coordenadas ETRS89)

Tipo	P.K.	Coord. X	Coord. Y	Azimut	Radio	Parámetro	Longitud
Rec	0,000	287889,332	4822678,204	199.5020	0,000	0,000	77,431
Cur	77,431	287889,938	4822600,776	199.5020	-21,800	0,000	5,628
Rec	83,058	287890,704	4822595,216	183.0681	0,000	0,000	89,744
Cur	172,802	287914,292	4822508,628	183.0681	20,000	0,000	17,813
Rec	190,615	287911,219	4822491,674	239.7673	0,000	0,000	10,354
	200,968	287905,164	4822483,276	239.7673			

### EJE 15 (coordenadas ETRS89)

Tipo	P.K.	Coord. X	Coord. Y	Azimut	Radio	Parámetro	Longitud
Rec	0,000	288560,526	4822619,205	183.6393	0,000	0,000	64,962
Rec	64,962	288577,038	4822556,376	203.1057	0,000	0,000	15,722
Rec	80,684	288576,271	4822540,673	182.2392	0,000	0,000	48,891
	129,575	288589,735	4822493,672	182.2392			

## **ANEXO II. MEDICIONES AUXILIARES MOVIMIENTO DE TIERRAS**

## MOVIMIENTO DE TIERRAS DEL EJE 1:

### FASE 1.1:

P.K.	Sup.Desmante	Sup.Terraplén	Sup.Vegetal	Vol.Desmante	Vol.Terraplén	Vol.Vegetal
29	24,648	0	10,407			
30	20,171	0,597	9,602	22,409	0,299	10,005
31	18,675	0,761	9,589	19,423	0,679	9,595
32	17,225	0,952	9,576	17,95	0,856	9,582
33	15,819	1,172	9,562	16,522	1,062	9,569
34	14,428	1,429	9,553	15,123	1,301	9,558
35	13,116	1,709	9,526	13,772	1,569	9,539
36	11,883	1,996	9,484	12,499	1,853	9,505
37	10,748	2,279	9,479	11,315	2,137	9,481
38	10,667	2,502	9,481	10,708	2,391	9,48
39	11,632	2,584	9,457	11,15	2,543	9,469
40	11,902	2,656	9,458	11,767	2,62	9,457
41	11,415	2,741	9,482	11,659	2,698	9,47
42	10,404	2,803	9,484	10,91	2,772	9,483
43	9,744	2,836	9,504	10,074	2,82	9,494
44	9,142	2,928	9,531	9,443	2,882	9,518
45	8,618	3,179	9,542	8,88	3,053	9,536
46	8,053	3,466	9,51	8,336	3,322	9,526
47	7,429	3,803	9,478	7,741	3,634	9,494
48	6,839	4,101	9,501	7,134	3,952	9,489
49	6,23	4,839	9,397	6,535	4,47	9,449
50	5,713	5,721	9,266	5,972	5,28	9,331
51	5,31	6,524	9,213	5,512	6,122	9,239
52	4,96	7,794	9,197	5,135	7,159	9,205
53	4,685	8,663	9,229	4,823	8,228	9,213
54	4,471	9,134	9,18	4,578	8,898	9,204
55	4,276	9,112	9,117	4,373	9,123	9,149
56	4,147	8,938	9,085	4,212	9,025	9,101
57	4,151	8,733	9,078	4,149	8,835	9,082
58	4,285	8,517	9,097	4,218	8,625	9,088
59	4,544	8,109	9,095	4,414	8,313	9,096
60	4,931	7,707	9,093	4,738	7,908	9,094
61	5,327	7,199	9,09	5,129	7,453	9,091
62	5,921	6,571	9,078	5,624	6,885	9,084
63	6,212	5,709	9,051	6,067	6,14	9,064
64	6,106	5,583	9,186	6,159	5,646	9,118
65	6,377	7,208	11,063	6,242	6,396	10,124
66	6,768	10,038	12,962	6,572	8,623	12,012
67	7,25	12,777	14,852	7,009	11,407	13,907
68	8,4	11,479	15,606	7,825	12,128	15,229
69	10,734	6,886	15,333	9,567	9,183	15,469



70	15,324	3,414	14,959	13,029	5,15	15,146
71	22,256	3,215	15,049	18,79	3,315	15,004
72	28,245	3,34	14,959	25,25	3,277	15,004
73	36,954	3,48	15,307	32,599	3,41	15,133
74	45,504	3,829	15,731	41,229	3,655	15,519
75	53,227	4,188	16,122	49,365	4,009	15,927
76	60,073	4,436	16,432	56,65	4,312	16,277
77	63,437	4,639	17,63	61,755	4,537	17,031
78	65,296	5,04	18,061	64,366	4,839	17,846
79	66,207	5,431	18,545	65,752	5,235	18,303
80	65,858	5,039	18,704	66,032	5,235	18,624
81	64,035	3,999	18,571	64,946	4,519	18,637
82	60,893	2,993	18,403	62,464	3,496	18,487
82,78	58,198	3,303	17,958	46,445	2,455	14,181
83	57,612	3,443	17,984	12,739	0,742	3,954
84	53,513	3,639	18,065	55,562	3,541	18,024
85	48,503	4,336	18,142	51,008	3,987	18,104
86	43,005	5,548	18,171	45,754	4,942	18,157
87	38,661	6,157	18,166	40,833	5,852	18,168
88	35,34	6,607	18,171	37,001	6,382	18,168
89	31,453	8,034	17,881	33,397	7,32	18,026
90	27,4	10,317	17,609	29,426	9,175	17,745
91	22,839	12,38	17,34	25,12	11,349	17,474
92	17,793	14,686	17,07	20,316	13,533	17,205
93	13,182	17,78	16,793	15,488	16,233	16,932
94	9,429	20,704	16,178	11,306	19,242	16,486
95	12,695	12,616	15,164	11,062	16,66	15,671
96	11,055	11,703	14,09	11,875	12,16	14,627
97	10,312	10,202	13,078	10,684	10,953	13,584
98	10,019	9,087	12,567	10,166	9,645	12,822
<b>TOTALES:</b>	<b>1521,674</b>	<b>425,32</b>	<b>910,374</b>	<b>1446,077</b>	<b>417,45</b>	<b>880,865</b>

**FASE 1.2:**

P.K.	Sup.Desmorte	Sup.Terraplén	Sup.Vegetal	Vol.Desmorte	Vol.Terraplén	Vol.Vegetal
97	10,312	10,202	13,078	10,684	10,953	13,584
98	10,019	9,087	12,567	10,166	9,645	12,822
99	9,824	8,496	12,639	9,921	8,791	12,603
100	9,845	7,869	12,695	9,834	8,183	12,667
101	9,932	7,285	12,749	9,888	7,577	12,722
102	10,093	6,821	12,799	10,013	7,053	12,774
103	10,328	6,474	12,81	10,211	6,648	12,805
104	10,642	6,556	12,747	10,485	6,515	12,779
105	11,037	6,486	12,719	10,84	6,521	12,733
106	11,511	6,391	12,673	11,274	6,438	12,696
107	12,055	6,328	12,633	11,783	6,36	12,653
108	12,609	6,232	12,594	12,332	6,28	12,613
109	13,156	6,108	12,555	12,883	6,17	12,574
110	13,674	5,937	12,532	13,415	6,023	12,543
111	14,156	5,747	12,544	13,915	5,842	12,538
112	14,606	5,562	12,583	14,381	5,655	12,563
113	15,021	5,353	12,619	14,813	5,458	12,601
114	15,405	5,129	12,654	15,213	5,241	12,637
115	16,419	4,89	12,687	15,912	5,01	12,671
116	11,811	10,896	12,643	14,115	7,893	12,665
117	12,669	10,072	12,634	12,24	10,484	12,639
118	13,221	9,491	12,628	12,945	9,781	12,631
119	13,608	8,92	12,615	13,414	9,206	12,622
120	14,119	8,063	12,579	13,864	8,492	12,597
121	14,461	6,783	12,587	14,29	7,423	12,583
122	15,171	5,89	12,628	14,816	6,336	12,608
123	16,211	5,804	12,657	15,691	5,847	12,643
124	16,943	5,031	12,745	16,577	5,417	12,701
125	15,914	2,92	12,899	16,429	3,975	12,822
126	15,236	2,6	12,916	15,575	2,76	12,908
127	14,774	2,596	12,933	15,005	2,598	12,925
128	14,237	2,502	12,95	14,506	2,549	12,942
129	12,78	2,637	12,967	13,508	2,57	12,958
130	11,501	3,42	12,983	12,14	3,029	12,975
131	10,776	4,006	12,997	11,138	3,713	12,99
132	10,894	4,135	13,02	10,835	4,07	13,008
133	10,749	3,831	13,057	10,821	3,983	13,038
134	10,698	3,494	13,106	10,723	3,663	13,082
135	11,242	3,229	13,164	10,97	3,362	13,135
136	11,824	3,003	13,183	11,533	3,116	13,174
137	12,448	2,987	13,182	12,136	2,995	13,183
138	13,138	3,193	13,193	12,793	3,09	13,188
139	13,38	3,502	13,162	13,259	3,347	13,178

140	13,045	3,855	13,095	13,213	3,678	13,129
141	11,789	4,344	12,959	12,417	4,1	13,027
142	10,559	5,322	12,719	11,174	4,833	12,839
143	10,116	6,639	12,546	10,338	5,98	12,632
144	10,222	8,16	12,533	10,169	7,399	12,54
145	10,913	8,644	12,542	10,567	8,402	12,538
146	11,382	8,236	12,543	11,147	8,44	12,543
147	11,479	8,255	12,545	11,43	8,246	12,544
148	11,323	8,339	12,556	11,401	8,297	12,551
149	11,118	8,502	12,564	11,22	8,42	12,56
150	10,883	8,861	12,564	11	8,682	12,564
151	10,602	8,911	12,571	10,742	8,886	12,568
152	10,36	8,671	12,578	10,481	8,791	12,575
153	10,361	8,092	12,57	10,36	8,382	12,574
154	10,551	7,263	12,541	10,456	7,677	12,555
155	10,625	6,517	12,587	10,588	6,89	12,564
156	10,679	5,969	12,647	10,652	6,243	12,617
157	11,229	5,526	12,666	10,954	5,747	12,657
158	11,702	5,114	12,723	11,466	5,32	12,695
159	12,098	4,648	12,773	11,9	4,881	12,748
160	12,506	4,132	12,813	12,302	4,39	12,793
161	13,033	3,492	12,852	12,769	3,812	12,832
162	13,862	2,668	12,893	13,447	3,08	12,872
163	15,663	2,144	12,979	14,762	2,406	12,936
164	17,768	1,98	13,085	16,715	2,062	13,032
165	20,137	1,957	13,136	18,953	1,969	13,111
166	23,044	1,898	13,14	21,59	1,927	13,138
167	26,312	1,791	13,122	24,678	1,844	13,131
168	29,342	1,658	13,155	27,827	1,724	13,138
169	30,419	1,499	13,279	29,881	1,578	13,217
170	29,904	1,336	13,507	30,162	1,418	13,393
171	30,184	1,171	13,737	30,044	1,253	13,622
172	30,313	1,004	13,961	30,249	1,087	13,849
173	30,343	1,051	14,099	30,328	1,028	14,03
174	29,923	0,839	14,14	30,133	0,945	14,119
175	28,302	0,837	14,177	29,113	0,838	14,158
176	26,99	0,822	14,212	27,646	0,829	14,194
177	26,835	0,934	14,243	26,912	0,878	14,228
178	27,01	1,032	13,948	26,923	0,983	14,096
179	28,008	1,005	13,845	27,509	1,018	13,897
180	28,449	0,968	13,796	28,229	0,986	13,821
181	29,381	0,95	13,82	28,915	0,959	13,808
182	29,919	0,953	13,817	29,65	0,951	13,819
183	30,112	0,928	13,947	30,015	0,94	13,882
184	29,313	0,928	14,044	29,712	0,928	13,995
185	27,249	0,932	14,073	28,281	0,93	14,058

186	23,439	0,928	14,035	25,344	0,93	14,054
187	19,027	1,019	14,082	21,233	0,973	14,058
188	17,539	1,184	14,142	18,283	1,101	14,112
189	16,833	1,221	14,237	17,186	1,202	14,19
190	16,279	1,279	14,254	16,556	1,25	14,246
191	15,827	1,38	14,268	16,053	1,33	14,261
192	15,585	1,473	14,242	15,706	1,426	14,255
193	15,37	1,537	14,029	15,477	1,505	14,136
194	15,031	1,627	13,794	15,2	1,582	13,911
195	14,853	2,088	13,547	14,942	1,857	13,67
196	14,869	2,479	13,407	14,861	2,284	13,477
197	15,122	2,738	13,262	14,996	2,609	13,335
198	15,827	2,954	13,23	15,474	2,846	13,246
199	16,714	3,145	13,225	16,271	3,049	13,228
200	17,821	3,305	13,237	17,268	3,225	13,231
201	19,055	3,422	13,258	18,438	3,363	13,248
202	20,601	3,344	13,284	19,828	3,383	13,271
203	22,581	3,343	13,33	21,591	3,343	13,307
204	23,276	3,775	13,388	22,928	3,559	13,359
205	22,817	4,142	13,456	23,046	3,958	13,422
206	20,833	4,514	13,485	21,825	4,328	13,47
207	18,581	4,991	13,519	19,707	4,753	13,502
208	17,481	5,408	13,547	18,031	5,199	13,533
209	17,79	5,841	13,585	17,635	5,624	13,566
210	18,073	6,183	13,623	17,931	6,012	13,604
211	18,099	6,422	13,673	18,086	6,302	13,648
212	17,952	6,616	13,712	18,025	6,519	13,693
213	17,767	6,666	13,763	17,859	6,641	13,738
214	16,722	6,603	13,823	17,245	6,635	13,793
215	16,046	6,57	13,892	16,384	6,587	13,858
216	16,039	6,868	13,94	16,042	6,719	13,916
217	16,281	7,301	13,997	16,16	7,085	13,968
217,999	16,689	7,707	14,042	16,468	7,496	14,006
218	16,689	7,706	14,042	0,017	0,008	0,014
219	17,293	7,816	14,112	16,991	7,761	14,077
220	18,207	7,557	14,136	17,75	7,686	14,124
221	19,508	7,314	14,1	18,858	7,435	14,118
222	20,897	7,027	14,085	20,202	7,171	14,092
223	22,168	6,599	14,111	21,532	6,813	14,098
224	23,341	5,91	14,11	22,755	6,254	14,111
225	24,26	5,882	14,123	23,801	5,896	14,117
226	25,318	6,381	14,207	24,789	6,131	14,165
227	26,408	6,337	14,245	25,863	6,359	14,226
228	27,335	6,24	14,258	26,871	6,289	14,252
229	27,824	6,017	14,27	27,579	6,129	14,264
230	27,831	5,703	14,293	27,827	5,86	14,281

231	27,786	5,379	14,312	27,808	5,541	14,302
232	27,845	5,073	14,342	27,816	5,226	14,327
233	28,288	4,858	14,363	28,066	4,966	14,353
234	28,883	4,677	14,367	28,585	4,768	14,365
235	29,519	4,476	14,343	29,201	4,576	14,355
236	29,878	4,261	14,312	29,698	4,368	14,327
237	30,387	4,058	14,285	30,132	4,159	14,298
238	31,003	3,865	14,267	30,695	3,962	14,276
239	31,548	3,666	14,289	31,275	3,766	14,278
240	31,993	3,41	14,307	31,771	3,538	14,298
241	32,462	3,137	14,318	32,228	3,273	14,312
242	33,051	2,856	14,323	32,757	2,996	14,32
243	33,761	2,582	14,332	33,406	2,719	14,327
244	34,601	2,337	14,337	34,181	2,459	14,334
244,936	35,256	2,179	14,346	32,693	2,113	13,424
245	35,288	2,168	14,347	2,257	0,139	0,918
246	35,779	2,025	14,352	35,534	2,096	14,349
247	36,243	2,024	14,361	36,011	2,025	14,356
248	36,615	2,002	14,365	36,429	2,013	14,363
249	36,912	1,954	14,364	36,764	1,978	14,364
250	37,206	1,897	14,356	37,059	1,926	14,36
251	37,4	1,841	14,357	37,303	1,869	14,357
252	37,522	1,769	14,345	37,461	1,805	14,351
253	37,544	1,689	14,339	37,533	1,729	14,342
254	37,492	1,65	14,333	37,518	1,669	14,336
255	37,484	1,538	14,325	37,488	1,594	14,329
256	37,522	1,399	14,327	37,503	1,469	14,326
257	37,625	1,314	14,317	37,574	1,357	14,322
258	37,657	1,225	14,29	37,641	1,27	14,303
259	37,57	1,192	14,26	37,613	1,208	14,275
260	37,431	1,174	14,221	37,501	1,183	14,241
261	37,195	1,151	14,183	37,313	1,163	14,202
262	36,819	1,122	14,149	37,007	1,136	14,166
263	36,394	1,093	14,117	36,606	1,107	14,133
264	35,972	1,074	14,09	36,183	1,083	14,103
265	35,792	1,136	14,226	35,882	1,105	14,158
266	36,514	1,626	15,101	36,153	1,381	14,663
267	37,149	2,168	15,981	36,832	1,897	15,541
268	37,731	2,547	16,843	37,44	2,357	16,412
269	40,9	2,628	17,72	39,316	2,587	17,281
270	46,643	2,88	18,682	43,772	2,754	18,201
271	52,054	3,328	19,637	49,349	3,104	19,159
272	57,101	3,807	20,587	54,578	3,568	20,112
273	61,785	4,258	21,541	59,443	4,033	21,064
<b>TOTALES:</b>	<b>3929,304</b>	<b>751,79</b>	<b>2454,306</b>	<b>3851,995</b>	<b>745,621</b>	<b>2422,2</b>

## MOVIMIENTO DE TIERRAS DEL EJE 2:

### FASE 1.1:

P.K.	Sup.Desmonte	Sup.Terraplén	Sup.Vegetal	Vol.Desmonte	Vol.Terraplén	Vol.Vegetal
15	25,589	5,491	16,598			
16	22,174	5,354	14,907	23,881	5,422	15,752
17	19,418	6,218	13,316	20,796	5,786	14,111
18	15,656	7,138	11,759	17,537	6,678	12,537
18,842	13,178	7,004	10,838	12,139	5,954	9,514
19	12,831	6,961	10,687	2,055	1,103	1,701
20	9,615	6,39	9,555	11,223	6,676	10,121
21	6,887	5,691	8,517	8,251	6,041	9,036
22	5,865	5,803	7,82	6,376	5,747	8,168
23	5,284	6,327	7,67	5,574	6,065	7,745
24	4,644	6,628	7,687	4,964	6,477	7,678
25	4,294	6,765	7,706	4,469	6,696	7,696
26	4,332	6,446	7,694	4,313	6,605	7,7
27	4,626	6,102	7,682	4,479	6,274	7,688
28	5,037	5,683	7,672	4,832	5,893	7,677
29	5,519	5,13	7,653	5,278	5,407	7,662
30	6,072	4,599	7,639	5,796	4,864	7,646
31	6,619	4,329	7,63	6,346	4,464	7,635
32	6,964	4,149	7,617	6,791	4,239	7,624
33	7,149	4,121	7,587	7,056	4,135	7,602
34	7,252	4,364	7,607	7,2	4,242	7,597
35	7,22	4,393	7,609	7,236	4,379	7,608
36	7,059	4,38	7,612	7,139	4,387	7,61
37	6,931	4,402	7,607	6,995	4,391	7,609
38	6,915	4,508	7,61	6,923	4,455	7,609
39	6,914	4,531	7,613	6,914	4,52	7,612
40	6,91	4,546	7,614	6,912	4,538	7,614
41	6,848	4,623	7,62	6,879	4,584	7,617
42	6,722	4,837	7,641	6,785	4,73	7,63
43	6,459	5,118	7,656	6,59	4,977	7,648
44	6,262	5,172	7,646	6,36	5,145	7,651
45	6,166	5,058	7,633	6,214	5,115	7,64
46	6,024	5,099	7,635	6,095	5,078	7,634
47	5,813	5,137	7,637	5,919	5,118	7,636
48	5,547	5,17	7,638	5,68	5,153	7,637
49	5,449	5,281	7,643	5,498	5,225	7,64
50	5,447	5,349	7,648	5,448	5,315	7,645
51	5,487	5,386	7,657	5,467	5,367	7,652
52	5,56	5,349	7,655	5,524	5,367	7,656
53	5,607	5,394	7,661	5,584	5,372	7,658
54	5,507	5,465	7,67	5,557	5,429	7,666
55	5,241	5,536	7,677	5,374	5,5	7,673
56	4,822	5,614	7,68	5,032	5,575	7,678
57	4,386	5,832	7,684	4,604	5,723	7,682

58	5,859	2,739	7,779	5,123	4,285	7,731
59	5,274	2,83	7,79	5,566	2,784	7,785
60	4,759	2,831	7,799	5,016	2,83	7,794
61	4,43	2,821	7,806	4,595	2,826	7,802
62	4,292	2,81	7,813	4,361	2,815	7,809
63	4,342	2,793	7,818	4,317	2,802	7,815
64	4,555	2,77	7,821	4,448	2,782	7,82
65	4,821	2,714	7,815	4,688	2,742	7,818
66	5,315	2,489	7,787	5,068	2,602	7,801
67	7,058	1,468	7,778	6,186	1,979	7,783
68	10,181	0,659	8,092	8,619	1,064	7,935
69	13,072	0,392	8,178	11,627	0,526	8,135
70	15,651	0,343	8,151	14,362	0,368	8,165
71	14,474	0,22	8,023	15,062	0,281	8,087
72	11,229	0,527	7,97	12,851	0,373	7,996
73	7,599	0,846	8,025	9,414	0,686	7,997
74	5,976	1,073	8,104	6,787	0,959	8,065
75	5,673	0,975	8,142	5,824	1,024	8,123
76	6,401	0,919	8,103	6,037	0,947	8,122
77	8,693	0,826	8,045	7,547	0,873	8,074
78	12,254	0,791	8,023	10,474	0,808	8,034
79	14,787	0,829	7,984	13,521	0,81	8,003
80	17,009	0,832	7,924	15,898	0,83	7,954
81	18,873	1,114	7,665	17,941	0,973	7,795
82	20,049	1,597	7,675	19,461	1,355	7,67
83	20,942	1,547	7,637	20,495	1,572	7,656
84	22,267	1,458	7,577	21,604	1,503	7,607
85	23,896	1,209	7,654	23,081	1,334	7,616
86	18,27	1,543	7,646	21,083	1,376	7,65
87	19,112	0,858	7,765	18,691	1,2	7,705
88	14,553	0,885	8,053	16,833	0,871	7,909
89	15,241	0,72	8,123	14,897	0,803	8,088
90	15,967	0,631	8,154	15,604	0,676	8,138
91	16,436	0,466	8,132	16,201	0,548	8,143
92	16,405	0,739	8,094	16,42	0,602	8,113
93	16,239	0,966	8,139	16,322	0,853	8,116
94	15,863	1,151	8,207	16,051	1,058	8,173
95	15,343	1,277	8,267	15,603	1,214	8,237
96	14,626	1,46	8,346	14,985	1,369	8,307
96,341	11,759	2,351	8,142	4,499	0,65	2,811
97	11,568	2,52	8,157	7,686	1,605	5,37
98	10,936	2,925	8,253	11,252	2,722	8,205
99	9,141	3,275	8,193	10,039	3,1	8,223
100	7,534	3,402	8,138	8,338	3,338	8,166
101	6,488	3,9	8,087	7,011	3,651	8,113
102	6,002	4,932	7,987	6,245	4,416	8,037
103	5,928	5,366	7,657	5,965	5,149	7,822
104	6,325	5,169	7,615	6,126	5,268	7,636
105	6,847	4,816	7,629	6,586	4,993	7,622

106	7,363	4,435	7,641	7,105	4,626	7,635
107	7,889	4,044	7,654	7,626	4,24	7,648
108	8,435	3,641	7,667	8,162	3,843	7,66
109	9,001	3,237	7,679	8,718	3,439	7,673
110	9,204	3,091	7,719	9,102	3,164	7,699
111	9,253	2,999	7,733	9,229	3,045	7,726
112	9,321	2,905	7,747	9,287	2,952	7,74
113	9,417	2,804	7,762	9,369	2,855	7,755
113,354	9,448	2,761	7,767	3,339	0,985	2,749
114	9,522	2,82	7,966	6,128	1,803	5,082
115	9,524	2,257	8,511	9,523	2,538	8,238
116	9,762	2,525	8,86	9,643	2,391	8,685
117	9,987	2,914	9,147	9,874	2,719	9,003
118	9,673	3,425	9,388	9,83	3,169	9,268
119	9,075	4,01	9,597	9,374	3,718	9,492
120	8,274	4,6	9,686	8,674	4,305	9,642
121	7,029	4,77	9,448	7,651	4,685	9,567
122	5,428	5,313	9,243	6,228	5,041	9,346
123	3,649	6,476	8,958	4,538	5,895	9,101
124	2,474	8,741	8,399	3,061	7,609	8,678
125	1,662	10,705	8,055	2,068	9,723	8,227
125,364	1,472	11,179	8,025	0,57	3,983	2,927
126	1,504	11,44	8,031	0,946	7,193	5,106
127	1,659	11,54	8,036	1,581	11,49	8,034
128	1,683	12,15	8,032	1,671	11,845	8,034
129	1,591	12,758	7,996	1,637	12,454	8,014
130	1,418	12,963	7,97	1,504	12,86	7,983
131	1,247	12,851	7,967	1,333	12,907	7,968
132	1,144	12,821	8	1,195	12,836	7,984
133	1,104	12,514	7,958	1,124	12,667	7,979
134	1,069	11,902	7,896	1,087	12,208	7,927
135	1,036	10,965	7,84	1,052	11,433	7,868
136	1,001	10,022	7,786	1,018	10,493	7,813
137	0,967	9,365	7,741	0,984	9,693	7,763
138	0,933	8,983	7,774	0,95	9,174	7,757
139	0,94	8,846	7,831	0,936	8,914	7,802
140	1,009	8,488	7,884	0,974	8,667	7,857
140,399	1,038	8,317	7,904	0,408	3,352	3,15
141	1,184	8,143	7,94	0,668	4,946	4,761
142	1,694	8,13	7,999	1,439	8,136	7,97
143	2,324	7,781	7,868	2,009	7,955	7,933
144	3,293	7,355	8,265	2,809	7,568	8,066
145	4,086	6,462	8,997	3,69	6,909	8,631
146	4,227	6,055	9,653	4,156	6,259	9,325
147	3,801	5,726	10,242	4,014	5,89	9,948
148	3,718	5,417	10,638	3,76	5,571	10,44
149	4,011	5,034	10,703	3,865	5,226	10,671
150	4,934	4,786	10,758	4,473	4,91	10,731
151	6,884	4,6	10,814	5,909	4,693	10,786



152	8,921	4,555	10,853	7,903	4,577	10,833
153	10,761	4,409	10,882	9,841	4,482	10,867
154	11,15	4,289	11,015	10,955	4,349	10,948
155	10,133	4,178	10,156	10,642	4,233	10,586
156	8,357	4,034	8,435	9,245	4,106	9,296
157	7,989	4,099	8,297	8,173	4,067	8,366
158	7,72	4,037	8,13	7,855	4,068	8,214
159	7,493	3,899	7,959	7,607	3,968	8,045
160	7,185	3,763	7,852	7,339	3,831	7,906
161	6,872	3,637	7,703	7,029	3,7	7,777
162	6,465	3,515	7,381	6,668	3,576	7,542
163	5,944	3,396	7,086	6,204	3,456	7,233
164	4,975	3,274	6,888	5,46	3,335	6,987
165	3,318	3,872	6,714	4,146	3,573	6,801
166	3,043	5,472	6,368	3,181	4,672	6,541
167	2,599	5,627	6,209	2,821	5,55	6,288
168	2,284	5,249	6,073	2,442	5,438	6,141
169	2,841	4,867	5,907	2,563	5,058	5,99
170	3,292	4,53	5,715	3,066	4,698	5,811
171	3,529	4,203	5,624	3,41	4,367	5,669
172	3,717	3,931	5,52	3,623	4,067	5,572
173	3,875	3,742	5,416	3,796	3,836	5,468
174	4,017	3,529	5,312	3,946	3,636	5,364
175	4,131	3,201	5,206	4,074	3,365	5,259
175,214	4,151	3,14	5,183	0,886	0,678	1,112
176	4,214	3,047	5,202	3,287	2,431	4,081
177	4,285	2,945	5,22	4,249	2,996	5,211
178	4,363	2,84	5,188	4,324	2,892	5,204
179	4,457	2,524	5,152	4,41	2,682	5,17
180	4,645	2,115	5,128	4,551	2,319	5,14
181	4,92	1,993	5,157	4,783	2,054	5,142
182	5,315	1,856	5,121	5,118	1,924	5,139
183	5,697	1,861	5,122	5,506	1,858	5,121
184	5,945	2,232	5,189	5,821	2,047	5,156
185	6,062	2,295	5,159	6,003	2,264	5,174
186	6,002	1,634	5,084	6,032	1,965	5,121
187	5,516	1,415	5	5,759	1,525	5,042
188	5,521	1,204	5,021	5,518	1,31	5,01
189	5,857	1,057	5,057	5,689	1,131	5,039
190	5,954	0,769	4,971	5,906	0,913	5,014
191	6,065	0,715	5,02	6,009	0,742	4,995
192	6,175	0,707	5,077	6,12	0,711	5,048
193	6,265	0,74	5,169	6,22	0,724	5,123
194	6,335	0,721	5,224	6,3	0,731	5,196
195	6,455	0,266	5,369	6,395	0,494	5,296
196	7,127	0,559	5,55	6,791	0,412	5,459
197	8,431	0,998	5,841	7,779	0,778	5,695
198	10,012	0,527	5,914	9,221	0,762	5,877
199	10,721	0,333	5,999	10,366	0,43	5,956

200	10,922	0,049	5,921	10,822	0,191	5,96
201	10,519	0	5,762	10,721	0,025	5,841
202	9,21	0	5,621	9,864	0	5,691
203	9,299	0	5,675	9,254	0	5,648
204	10,321	0	5,825	9,81	0	5,75
205	11,373	0,085	5,932	10,847	0,043	5,879
206	10,883	0,122	5,948	11,128	0,104	5,94
207	10,068	0,142	5,825	10,476	0,132	5,887
208	8,971	0,259	5,945	9,52	0,201	5,885
209	8,334	0,262	5,839	8,652	0,261	5,892
210	7,945	0,249	5,741	8,139	0,255	5,79
211	7,552	0,242	5,696	7,749	0,245	5,718
212	7,094	0,251	5,606	7,323	0,246	5,651
213	6,78	0,269	5,463	6,937	0,26	5,535
214	6,859	0,293	5,357	6,82	0,281	5,41
215	7,168	0,332	5,548	7,014	0,313	5,452
216	7,521	0,061	5,755	7,344	0,197	5,652
217	8,039	0,009	5,972	7,78	0,035	5,864
218	7,861	0	5,813	7,95	0,005	5,893
219	8,259	0	5,608	8,06	0	5,71
220	8,725	0	5,583	8,492	0	5,595
221	8,928	0	5,647	8,827	0	5,615
222	9,145	0	5,946	9,036	0	5,797
223	9,082	0	6,31	9,113	0	6,128
224	8,366	0,18	6,207	8,724	0,09	6,259
225	7,488	0,212	6,068	7,927	0,196	6,138
226	6,985	0,283	6,035	7,236	0,247	6,051
227	6,707	0,441	6,106	6,846	0,362	6,07
228	6,497	0,574	6,268	6,602	0,507	6,187
229	6,299	0,594	6,511	6,398	0,584	6,39
230	6,166	0,508	6,6	6,232	0,551	6,556
231	6,095	0,428	6,864	6,13	0,468	6,732
232	5,998	0,324	6,95	6,047	0,376	6,907
233	6,025	0,279	7,108	6,012	0,302	7,029
234	6,12	0,236	7,286	6,073	0,258	7,197
235	6,392	0,016	7,423	6,256	0,126	7,355
236	6,858	0,067	7,747	6,625	0,041	7,585
237	7,311	0,16	8,353	7,085	0,114	8,05
238	8,344	0,197	8,508	7,828	0,179	8,431
239	9,448	0,489	8,352	8,896	0,343	8,43
240	10,889	0,405	8,293	10,168	0,447	8,322
241	13,412	0,367	8,376	12,15	0,386	8,334
242	15,992	0,331	8,431	14,702	0,349	8,404
243	17,234	1,877	8,835	16,613	1,104	8,633
244	17,513	3,01	8,971	17,373	2,443	8,903
244,603	16,232	0,31	9,008	10,174	1,001	5,421
245	14,619	0,346	9,855	6,124	0,13	3,744
246	13,622	0	10,144	14,121	0,173	10
247	13,064	0,168	10,369	13,343	0,084	10,257

247,283	12,934	0,17	10,432	3,679	0,048	2,943
248	12,896	0,178	10,573	9,26	0,125	7,53
249	14,182	0,173	10,199	13,539	0,175	10,386
250	15,737	2,257	10,09	14,96	1,215	10,144
251	16,421	4,45	9,694	16,079	3,353	9,892
252	16,115	6,751	9,421	16,268	5,6	9,557
253	15,015	8,591	9,137	15,565	7,671	9,279
254	13,197	9,403	8,872	14,106	8,997	9,005
255	11,414	7,718	8,592	12,305	8,56	8,732
256	10,547	7,625	8,339	10,98	7,671	8,465
257	9,767	9,239	8,084	10,157	8,432	8,211
258	9,361	9,759	7,739	9,564	9,499	7,912
259	8,825	9,31	7,511	9,093	9,535	7,625
260	8,913	9,141	7,527	8,869	9,226	7,519
261	9,136	9,438	7,439	9,025	9,29	7,483
262	9,461	8,011	7,207	9,299	8,725	7,323
263	9,637	7,876	7,026	9,549	7,943	7,116
264	9,324	7,114	6,86	9,48	7,495	6,943
265	8,982	6,675	6,638	9,153	6,894	6,749
266	8,591	4,395	6,301	8,787	5,535	6,47
267	8,117	3,561	6,322	8,354	3,978	6,312
268	7,493	2,29	6,266	7,805	2,926	6,294
269	6,357	2,235	6,238	6,925	2,262	6,252
270	4,214	8,001	6,56	5,286	5,118	6,399
271	4,395	12,754	6,668	4,305	10,377	6,614
272	4,663	12,42	6,615	4,529	12,587	6,641
273	4,863	11,67	6,649	4,763	12,045	6,632
274	5,214	11,032	6,754	5,038	11,351	6,701
275	5,469	2,704	5,367	5,342	6,868	6,061
276	5,649	2,631	5,439	5,559	2,668	5,403
277	6,078	2,601	5,491	5,863	2,616	5,465
278	7,009	2,615	5,563	6,543	2,608	5,527
279	7,936	2,666	5,678	7,472	2,64	5,62
280	8,694	2,754	5,825	8,315	2,71	5,752
281	9,208	2,888	5,984	8,951	2,821	5,904
282	8,849	3,061	6,073	9,029	2,974	6,028
283	7,148	3,274	6,124	7,999	3,167	6,099
284	5,999	3,528	6,212	6,573	3,401	6,168
284,405	5,733	3,645	6,209	2,376	1,453	2,515
285	5,562	3,806	6,141	3,36	2,217	3,674
286	6,851	4,086	6,337	6,207	3,946	6,239
287	8,706	4,406	6,45	7,778	4,246	6,394
288	9,943	4,758	6,581	9,325	4,582	6,515
289	10,175	5,119	6,576	10,059	4,938	6,578
290	13,665	5,484	6,551	11,92	5,301	6,564
291	12,146	5,837	6,544	12,905	5,66	6,548
292	10,672	6,383	6,563	11,409	6,11	6,554
293	10,64	1,06	6,555	10,656	3,722	6,559
294	9,333	0,977	6,496	9,987	1,018	6,526

295	8,526	1,326	6,423	8,929	1,151	6,459
296	7,819	2,095	6,273	8,172	1,711	6,348
297	7,576	2,523	5,927	7,698	2,309	6,1
298	7,452	2,702	5,754	7,514	2,613	5,841
299	7,367	2,851	5,809	7,409	2,777	5,781
300	7,306	2,842	5,837	7,336	2,846	5,823
301	7,278	2,829	5,844	7,292	2,836	5,841
302	7,268	2,858	5,84	7,273	2,844	5,842
303	7,203	2,93	5,851	7,235	2,894	5,845
304	7,195	2,963	5,861	7,199	2,946	5,856
305	7,433	2,947	5,869	7,314	2,955	5,865
306	7,633	2,909	5,877	7,533	2,928	5,873
307	7,759	2,881	5,885	7,696	2,895	5,881
308	7,797	2,922	5,895	7,778	2,901	5,89
309	7,74	2,998	5,906	7,768	2,96	5,9
310	7,669	3,07	5,916	7,704	3,034	5,911
311	7,663	3,123	5,925	7,666	3,096	5,92
312	7,668	3,132	5,933	7,666	3,127	5,929
313	7,705	3,083	5,938	7,687	3,107	5,936
314	7,766	2,836	5,937	7,736	2,96	5,938
315	7,852	2,638	5,933	7,809	2,737	5,935
316	7,856	2,463	5,931	7,854	2,551	5,932
317	7,835	2,295	5,928	7,845	2,379	5,93
318	7,874	2,163	5,931	7,855	2,229	5,93
319	7,955	2,088	5,939	7,915	2,125	5,935
320	8,015	2,061	5,941	7,985	2,074	5,94
321	8,05	2,037	5,94	8,033	2,049	5,94
322	8,079	2,04	5,936	8,065	2,038	5,938
323	8,107	2,044	5,932	8,093	2,042	5,934
324	8,134	2,045	5,928	8,12	2,044	5,93
325	8,168	2,05	5,922	8,151	2,047	5,925
326	8,211	2,049	5,917	8,19	2,05	5,919
327	8,262	2,06	5,912	8,237	2,055	5,914
328	8,317	2,074	5,906	8,29	2,067	5,909
329	8,367	2,066	5,898	8,342	2,07	5,902
330	8,412	2,034	5,891	8,39	2,05	5,894
331	8,453	1,975	5,899	8,432	2,005	5,895
332	8,49	1,883	5,914	8,471	1,929	5,907
333	8,532	1,791	5,926	8,511	1,837	5,92
334	8,58	1,714	5,909	8,556	1,752	5,917
335	8,637	1,67	5,931	8,609	1,692	5,92
336	8,715	1,599	5,96	8,676	1,635	5,946
337	8,824	1,458	6,006	8,77	1,529	5,983
338	9,189	1,299	6,056	9,006	1,379	6,031
339	9,768	1,185	6,111	9,478	1,242	6,084
340	10,554	1,013	6,258	10,161	1,099	6,185
341	11,151	0,911	6,702	10,853	0,962	6,48
342	12,282	0,668	7,104	11,717	0,789	6,903
343	14,003	0,414	7,404	13,142	0,541	7,254

344	14,704	0,42	7,511	14,353	0,417	7,457
345	14,984	0,387	7,501	14,844	0,404	7,506
346	13,707	0,35	7,49	14,345	0,368	7,496
347	10,49	0,306	7,478	12,098	0,328	7,484
348	8,387	0,765	7,147	9,438	0,536	7,313
349	8,188	1,466	6,089	8,288	1,116	6,618
350	8,274	1,945	6,091	8,231	1,706	6,09
351	8,398	1,923	5,99	8,336	1,934	6,04
352	8,686	1,629	5,872	8,542	1,776	5,931
352,708	8,966	1,175	5,761	6,249	0,992	4,118
353	9,099	1,112	5,767	2,637	0,334	1,683
354	9,496	0,892	5,826	9,297	1,002	5,797
355	9,84	0,606	5,798	9,668	0,749	5,812
356	10,19	0,369	5,773	10,015	0,488	5,786
357	10,641	0	5,758	10,416	0,184	5,766
358	11,307	0	5,752	10,974	0	5,755
359	12,012	0	5,769	11,66	0	5,76
360	13,026	0	5,91	12,519	0	5,839
361	14,103	0	6,064	13,564	0	5,987
362	15,234	0	6,247	14,668	0	6,156
363	16,942	0	6,394	16,088	0	6,32
364	18,918	0	6,56	17,93	0	6,477
365	20,457	0	6,724	19,687	0	6,642
366	21,385	0,032	6,876	20,921	0,016	6,8
367	21,946	0,033	6,994	21,666	0,032	6,935
368	22,027	0,033	7,004	21,987	0,033	6,999
369	22,127	0,037	7,023	22,077	0,035	7,013
370	22,295	0,045	7,052	22,211	0,041	7,037
371	22,342	0,055	7,089	22,318	0,05	7,07
372	22,172	0,071	7,136	22,257	0,063	7,113
372,429	22,078	0,079	7,159	9,492	0,032	3,066
373	21,892	0,083	7,19	12,553	0,046	4,097
374	16,631	0	5,037	19,262	0,041	6,114
375	15,692	0	4,867	16,161	0	4,952
376	14,55	0	4,668	15,121	0	4,767
377	13,221	0	4,476	13,886	0	4,572
378	12,114	0	4,282	12,667	0	4,379
379	11,104	0	4,097	11,609	0	4,19
380	9,965	0	3,854	10,535	0	3,975
381	8,862	0	3,657	9,413	0	3,755
382	7,337	0	3,495	8,1	0	3,576
383	5,906	0	3,513	6,622	0	3,504
384	4,644	0	3,349	5,275	0	3,431
385	3,461	0	3,003	4,053	0	3,176
386	3,48	0	2,929	3,471	0	2,966
387	3,569	0	2,988	3,524	0	2,958
388	3,553	0	3,174	3,561	0	3,081
389	3,402	0	3,288	3,478	0	3,231
390	2,95	0	3,264	3,176	0	3,276

391	1,816	0	2,778	2,383	0	3,021
392	0,46	0	2,086	1,138	0	2,432
393	0,106	0	1,447	0,283	0	1,767
394	0,556	0,002	0,916	0,331	0,001	1,181
395	0,002	0,154	0,204	0,279	0,078	0,56
<b>TOTALES:</b>	<b>3348,036</b>	<b>1214,037</b>	<b>2740,492</b>	<b>3227,349</b>	<b>1170,808</b>	<b>2645,266</b>

### MOVIMIENTO DE TIERRAS DEL EJE 3:

#### FASE 1.1:

P.K.	Sup.Desmonte	Sup.Terraplén	Sup.Vegetal	Vol.Desmonte	Vol.Terraplén	Vol.Vegetal
5	15,731	0,443	11,708			
6	16,502	0,285	10,978	16,116	0,364	11,343
7	16,688	0,175	10,378	16,595	0,23	10,678
8	15,861	0,157	9,995	16,274	0,166	10,186
9	14,708	0,17	9,852	15,285	0,164	9,923
10	14,24	0,217	9,699	14,474	0,194	9,776
11	13,858	0,263	9,654	14,049	0,24	9,676
12	13,583	0,409	9,666	13,721	0,336	9,66
13	13,467	0,695	9,688	13,525	0,552	9,677
14	13,402	0,922	9,681	13,435	0,808	9,684
15	13,377	1,049	9,663	13,389	0,985	9,672
16	13,376	1,083	9,649	13,376	1,066	9,656
17	13,365	1,129	9,681	13,37	1,106	9,665
18	13,526	1,155	9,738	13,446	1,142	9,709
19	13,917	1,16	9,783	13,722	1,157	9,761
20	14,143	1,157	9,809	14,03	1,159	9,796
21	14,396	1,159	9,825	14,27	1,158	9,817
22	14,541	1,166	9,838	14,469	1,162	9,831
23	14,663	1,167	9,851	14,602	1,166	9,844
24	14,828	1,166	9,859	14,746	1,166	9,855
25	14,99	1,138	9,856	14,909	1,152	9,857
26	15,103	1,085	9,861	15,047	1,111	9,858
27	15,182	1,014	9,854	15,143	1,05	9,857
28	15,212	0,943	9,849	15,197	0,978	9,851
29	15,235	0,922	9,837	15,223	0,932	9,843
30	15,457	0,943	9,84	15,346	0,932	9,839
31	15,895	1,093	9,822	15,676	1,018	9,831
32	16,506	1,417	9,716	16,2	1,255	9,769
33	17,125	1,546	9,623	16,815	1,481	9,67
34	17,906	1,332	9,652	17,515	1,439	9,637
35	19,128	1,089	9,7	18,517	1,211	9,676
36	20,217	0,954	9,75	19,672	1,021	9,725
37	19,855	1,035	9,774	20,036	0,994	9,762
38	18,925	1,241	9,798	19,39	1,138	9,786
39	18,434	1,67	9,83	18,68	1,456	9,814
40	18,345	1,955	9,837	18,389	1,813	9,834
41	18,856	1,925	9,847	18,6	1,94	9,842
42	20,944	1,813	10,046	19,9	1,869	9,947
43	22,459	1,67	10,387	21,702	1,742	10,217
44	22,345	1,203	10,606	22,402	1,436	10,497
44,936	21,953	1,221	10,705	20,732	1,134	9,974
45	21,906	1,213	10,707	1,403	0,078	0,685
46	19,433	0,803	9,275	20,669	1,008	9,991
47	18,042	1,678	10,433	18,737	1,241	9,854

48	16,054	3,327	11,539	17,048	2,502	10,986
49	14,415	5,963	12,579	15,234	4,645	12,059
50	12,893	7,779	13,733	13,654	6,871	13,156
51	11,958	7,292	13,329	12,425	7,536	13,531
52	11,285	6,434	12,607	11,621	6,863	12,968
53	11,009	3,341	10,272	11,147	4,888	11,44
54	10,66	2,201	9,488	10,834	2,771	9,88
55	10,295	2,069	9,407	10,478	2,135	9,447
56	10,03	2,163	9,293	10,163	2,116	9,35
57	9,83	2,249	9,153	9,93	2,206	9,223
57,164	9,811	2,255	9,132	1,611	0,369	1,499
58	9,436	2,322	9,123	8,045	1,913	7,631
59	9,017	2,505	9,204	9,226	2,414	9,163
60	8,613	2,432	9,135	8,815	2,469	9,17
61	8,038	2,067	8,951	8,326	2,249	9,043
62	7,757	1,592	8,916	7,898	1,829	8,933
63	7,54	1,226	8,896	7,648	1,409	8,906
64	7,333	1,461	8,804	7,436	1,343	8,85
65	7,262	2,054	8,673	7,297	1,757	8,739
66	7,212	2,332	8,592	7,237	2,193	8,632
67	11,824	1,463	8,344	9,518	1,898	8,468
68	11,687	1,629	8,292	11,756	1,546	8,318
69	11,559	1,827	8,242	11,623	1,728	8,267
70	11,43	2,056	8,203	11,495	1,941	8,222
71	11,288	2,309	8,163	11,359	2,182	8,183
72	11,11	2,548	8,122	11,199	2,428	8,142
73	10,9	2,781	8,076	11,005	2,664	8,099
74	10,74	2,955	8,041	10,82	2,868	8,059
75	13,16	1,738	8,03	11,95	2,346	8,036
76	12,997	1,797	8,016	13,078	1,768	8,023
77	12,839	1,85	8,017	12,918	1,824	8,017
78	12,68	1,896	8,021	12,759	1,873	8,019
79	12,526	1,944	8,024	12,603	1,92	8,023
80	12,372	1,991	8,028	12,449	1,967	8,026
81	12,22	2,036	8,034	12,296	2,013	8,031
82	12,079	2,078	8,04	12,15	2,057	8,037
83	11,941	2,112	8,046	12,01	2,095	8,043
84	11,811	2,141	8,053	11,876	2,126	8,049
85	11,698	2,163	8,06	11,754	2,152	8,056
86	11,593	2,182	8,065	11,645	2,173	8,063
87	11,492	2,196	8,068	11,542	2,189	8,067
88	11,393	2,209	8,071	11,442	2,203	8,07
89	11,296	2,224	8,071	11,344	2,217	8,071
90	11,208	2,241	8,07	11,252	2,233	8,07
91	11,131	2,246	8,077	11,169	2,244	8,073
92	11,209	2,182	8,064	11,17	2,214	8,07
93	11,402	2,129	8,059	11,306	2,156	8,061
94	11,651	2,076	8,053	11,526	2,103	8,056
95	11,889	2,025	8,047	11,77	2,05	8,05



96	12,118	1,974	8,041	12,003	1,999	8,044
97	12,334	1,921	8,034	12,226	1,947	8,038
98	12,547	1,875	8,031	12,44	1,898	8,032
99	12,757	1,829	8,027	12,652	1,852	8,029
100	12,977	1,781	8,022	12,867	1,805	8,025
101	13,192	1,733	8,018	13,085	1,757	8,02
102	13,482	1,814	8,164	13,337	1,774	8,091
103	13,825	1,855	8,327	13,654	1,834	8,245
104	13,669	1,841	8,319	13,747	1,848	8,323
105	13,14	1,578	8,043	13,405	1,709	8,181
106	12,459	1,544	8,099	12,8	1,561	8,071
107	11,819	1,594	8,143	12,139	1,569	8,121
108	11,248	1,684	8,147	11,534	1,639	8,145
109	10,723	1,803	8,126	10,986	1,744	8,137
110	10,074	2,004	8,089	10,399	1,904	8,108
111	7,365	4,607	8,066	8,72	3,306	8,078
112	7,189	5,058	8,073	7,277	4,832	8,07
113	7,428	4,745	8,058	7,309	4,901	8,066
114	8,005	3,99	8,01	7,717	4,368	8,034
115	11,638	1,686	8,442	9,822	2,838	8,226
116	18,016	0,235	8,995	14,827	0,96	8,719
117	29,077	0	9,676	23,547	0,117	9,335
118	40,223	0	10,151	34,65	0	9,913
119	51,077	0	10,47	45,65	0	10,31
120	60,849	0	10,685	55,963	0	10,577
121	66,226	0	10,902	63,537	0	10,793
122	67,075	0	11,13	66,651	0	11,016
123	63,521	0	11,237	65,298	0	11,183
124	53,024	0	11,244	58,273	0	11,24
125	43,032	0	11,184	48,028	0	11,214
126	38,843	0	10,848	40,937	0	11,016
127	37,425	0	10,783	38,134	0	10,815
128	37,595	0	11,004	37,51	0	10,894
129	38,461	0	11,142	38,028	0	11,073
130	40,816	0	11,32	39,638	0	11,231
131	42,954	0	11,408	41,885	0	11,364
132	44,2	0	11,372	43,577	0	11,39
133	45,292	0	11,447	44,746	0	11,41
134	46,225	0	11,519	45,758	0	11,483
135	47,066	0	11,554	46,645	0	11,537
136	47,928	0	11,615	47,497	0	11,584
137	49,145	0	11,797	48,536	0	11,706
138	52,313	0	12,014	50,729	0	11,905
139	57,464	0	11,948	54,889	0	11,981
140	61,544	0	11,844	59,504	0	11,896
141	64,207	0	11,766	62,876	0	11,805
142	65,875	0	11,939	65,041	0	11,852
143	63,863	0	12,056	64,869	0	11,997
144	56,459	0	12,067	60,161	0	12,061

145	45,705	0	11,48	51,082	0	11,773
146	37,034	0	10,556	41,369	0	11,018
147	33,189	0	10,423	35,111	0	10,49
148	30,806	0	11,141	31,997	0	10,782
149	28,145	0,285	11,961	29,475	0,142	11,551
150	25,353	0,609	12,762	26,749	0,447	12,362
151	22,192	1,177	13,609	23,773	0,893	13,185
152	18,733	1,924	14,005	20,463	1,551	13,807
<b>TOTALES:</b>	<b>3168,139</b>	<b>221,264</b>	<b>1456,256</b>	<b>3119,173</b>	<b>216,601</b>	<b>1423,552</b>

## MOVIMIENTO DE TIERRAS DEL EJE 5:

### FASE 2:

P.K.	Sup.Desmorte	Sup.Terraplén	Sup.Vegetal	Vol.Desmorte	Vol.Terraplén	Vol.Vegetal
9	4,002	13,574	12,073			
10	3,7	12,438	11,074	3,851	13,006	11,574
11	3,403	11,294	10,075	3,551	11,866	10,575
12	3,11	10,133	9,077	3,256	10,714	9,576
13	2,82	8,945	8,078	2,965	9,539	8,577
14	2,238	8,61	7,106	2,529	8,777	7,592
15	2,152	8,879	7,115	2,195	8,744	7,111
16	2,147	8,953	7,117	2,15	8,916	7,116
17	2,126	9,027	7,12	2,137	8,99	7,119
18	2,096	9,112	7,123	2,111	9,069	7,121
19	2,058	9,2	7,124	2,077	9,156	7,124
20	2,016	9,273	7,126	2,037	9,236	7,125
21	1,988	9,351	7,128	2,002	9,312	7,127
22	1,979	9,428	7,131	1,983	9,39	7,13
22,879	1,975	9,477	7,133	1,738	8,309	6,269
23	1,974	9,529	7,16	0,239	1,15	0,865
24	1,96	9,948	7,39	1,967	9,739	7,275
25	1,937	10,36	7,619	1,949	10,154	7,504
26	1,919	10,793	7,847	1,928	10,577	7,733
27	1,903	11,228	8,077	1,911	11,01	7,962
28	1,893	11,658	8,307	1,898	11,443	8,192
29	1,89	12,078	8,536	1,891	11,868	8,421
30	1,881	12,488	8,766	1,886	12,283	8,651
31	1,863	12,899	8,995	1,872	12,694	8,88
32	1,841	13,307	9,223	1,852	13,103	9,109
33	1,821	13,716	9,452	1,831	13,511	9,338
34	1,816	14,142	9,681	1,818	13,929	9,566
35	1,81	14,243	9,718	1,813	14,192	9,7
36	1,802	13,96	9,537	1,806	14,102	9,628
37	1,795	13,661	9,355	1,798	13,811	9,446
38	1,817	13,362	9,175	1,806	13,512	9,265
39	1,829	13,066	8,994	1,823	13,214	9,084
40	1,831	12,794	8,816	1,83	12,93	8,905
41	1,823	12,495	8,635	1,827	12,645	8,726
42	1,806	12,236	8,455	1,814	12,365	8,545
43	1,778	12,027	8,276	1,792	12,131	8,365
43,704	1,768	11,848	8,15	1,248	8,404	5,782
44	1,764	11,867	8,15	0,523	3,51	2,412
45	1,745	11,944	8,152	1,755	11,905	8,151
46	1,72	12,049	8,156	1,733	11,996	8,154
47	1,691	12,167	8,159	1,706	12,108	8,158
48	1,656	12,305	8,163	1,674	12,236	8,161
49	1,615	12,465	8,168	1,636	12,385	8,166
50	1,611	12,597	8,174	1,613	12,531	8,171

51	1,943	12,014	8,18	1,777	12,305	8,177
52	2,225	11,41	8,185	2,084	11,712	8,183
53	2,469	10,8	8,192	2,347	11,105	8,188
54	2,343	11,043	8,198	2,406	10,921	8,195
55	2,217	11,308	8,205	2,28	11,175	8,201
56	2,087	11,55	8,214	2,152	11,429	8,209
57	1,952	11,768	8,221	2,02	11,659	8,217
58	1,831	11,997	8,226	1,891	11,883	8,223
59	1,701	12,209	8,231	1,766	12,103	8,228
60	1,545	12,418	8,237	1,623	12,313	8,234
61	1,431	12,649	8,245	1,488	12,533	8,241
62	1,312	12,871	8,251	1,371	12,76	8,248
63	1,188	13,095	8,258	1,25	12,983	8,254
64	1,073	13,317	8,265	1,131	13,206	8,261
65	0,941	13,566	8,272	1,007	13,442	8,268
66	0,812	13,788	8,278	0,876	13,677	8,275
67	0,712	13,955	8,282	0,762	13,871	8,28
68	0,637	14,061	8,285	0,674	14,008	8,283
69	0,612	14,125	8,287	0,624	14,093	8,286
70	0,611	14,147	8,289	0,611	14,136	8,288
71	0,625	14,161	8,29	0,618	14,154	8,29
72	0,637	14,178	8,291	0,631	14,169	8,29
73	0,631	14,186	8,291	0,634	14,182	8,291
74	0,611	14,193	8,29	0,621	14,19	8,291
75	0,578	14,236	8,29	0,595	14,215	8,29
76	0,524	14,298	8,291	0,551	14,267	8,29
77	0,473	14,379	8,292	0,498	14,339	8,291
78	0,42	14,472	8,294	0,446	14,426	8,293
79	0,348	14,617	8,298	0,384	14,545	8,296
80	0,279	14,762	8,302	0,313	14,69	8,3
81	0,232	14,852	8,305	0,256	14,807	8,304
82	0,193	14,924	8,307	0,213	14,888	8,306
83	0,158	14,999	8,309	0,176	14,962	8,308
84	0,125	15,095	8,312	0,142	15,047	8,311
85	0,092	15,205	8,314	0,109	15,15	8,313
86	0,061	15,328	8,317	0,077	15,266	8,316
87	0,035	15,445	8,32	0,048	15,386	8,318
88	0,025	15,532	8,322	0,03	15,488	8,321
89	0,016	15,61	8,324	0,02	15,571	8,323
90	0,008	15,7	8,325	0,012	15,655	8,325
91	0,003	15,782	8,326	0,006	15,741	8,326
92	0	15,87	8,326	0,001	15,826	8,326
93	0	15,944	8,327	0	15,907	8,327
94	0	15,989	8,328	0	15,967	8,328
95	0	15,984	8,328	0	15,987	8,328
96	0	15,904	8,328	0	15,944	8,328
97	0,005	15,785	8,325	0,002	15,845	8,327
98	0,013	15,645	8,322	0,009	15,715	8,324
99	0,029	15,481	8,318	0,021	15,563	8,32

100	0,057	15,299	8,316	0,043	15,39	8,317
101	0,103	15,134	8,313	0,08	15,216	8,315
102	0,151	14,961	8,31	0,127	15,047	8,311
103	0,191	14,797	8,306	0,171	14,879	8,308
104	0,252	14,649	8,303	0,221	14,723	8,305
105	0,326	14,524	8,301	0,289	14,586	8,302
106	0,403	14,418	8,298	0,365	14,471	8,299
107	0,486	14,308	8,292	0,445	14,363	8,295
108	0,573	14,204	8,287	0,529	14,256	8,29
108,156	0,587	14,188	8,287	0,09	2,215	1,293
109	0,652	14,095	8,285	0,522	11,935	6,993
110	0,732	13,96	8,28	0,692	14,028	8,282
111	0,818	13,809	8,275	0,775	13,885	8,277
112	0,901	13,639	8,269	0,86	13,724	8,272
113	0,985	13,453	8,263	0,943	13,546	8,266
113,374	1,019	13,382	8,261	0,375	5,018	3,09
114	1,077	13,264	8,258	0,656	8,34	5,17
115	1,171	13,064	8,253	1,124	13,164	8,255
116	1,26	12,864	8,248	1,215	12,964	8,25
117	1,357	12,672	8,243	1,308	12,768	8,246
118	1,431	12,497	8,238	1,394	12,585	8,241
119	1,484	12,385	8,236	1,457	12,441	8,237
120	1,536	12,285	8,235	1,51	12,335	8,235
120,309	1,551	12,253	8,234	0,477	3,791	2,544
121	1,582	12,184	8,233	1,082	8,443	5,689
122	1,626	12,087	8,231	1,604	12,136	8,232
123	1,67	11,998	8,23	1,648	12,042	8,23
124	1,715	11,917	8,227	1,692	11,957	8,228
125	1,762	11,851	8,225	1,739	11,884	8,226
125,528	1,789	11,822	8,224	0,937	6,249	4,343
126	1,813	11,796	8,223	0,85	5,574	3,881
127	1,863	11,737	8,219	1,838	11,767	8,221
128	1,918	11,668	8,215	1,891	11,702	8,217
129	1,972	11,593	8,211	1,945	11,63	8,213
130	2,022	11,514	8,207	1,997	11,554	8,209
131	2,068	11,428	8,204	2,045	11,471	8,206
132	2,111	11,335	8,201	2,089	11,381	8,203
133	2,152	11,234	8,198	2,131	11,284	8,2
134	2,191	11,129	8,194	2,171	11,182	8,196
135	2,226	11,02	8,19	2,208	11,074	8,192
136	2,261	10,906	8,187	2,244	10,963	8,189
137	2,298	10,792	8,184	2,28	10,849	8,186
138	2,337	10,676	8,181	2,317	10,734	8,183
139	2,377	10,56	8,178	2,357	10,618	8,18
140	2,422	10,445	8,175	2,399	10,503	8,177
141	2,474	10,335	8,172	2,448	10,39	8,174
142	2,529	10,22	8,168	2,501	10,278	8,17
143	2,589	10,073	8,161	2,559	10,147	8,164
144	2,655	9,883	8,155	2,622	9,978	8,158

145	2,728	9,672	8,148	2,691	9,778	8,151
146	2,856	9,446	8,14	2,792	9,559	8,144
147	3,007	9,229	8,131	2,932	9,338	8,135
148	3,157	9,023	8,121	3,082	9,126	8,126
149	3,309	8,822	8,117	3,233	8,923	8,119
150	3,458	8,643	8,116	3,384	8,733	8,116
151	3,606	8,488	8,116	3,532	8,565	8,116
152	3,752	8,344	8,11	3,679	8,416	8,113
153	3,895	8,204	8,105	3,824	8,274	8,108
154	4,037	8,068	8,101	3,966	8,136	8,103
155	4,177	7,929	8,096	4,107	7,998	8,098
156	4,295	7,759	8,093	4,236	7,844	8,094
157	4,401	7,566	8,087	4,348	7,663	8,09
158	4,503	7,358	8,081	4,452	7,462	8,084
159	4,603	7,136	8,074	4,553	7,247	8,078
160	4,696	6,886	8,066	4,65	7,011	8,07
161	4,807	6,632	8,059	4,751	6,759	8,063
162	4,916	6,376	8,051	4,861	6,504	8,055
163	5,032	6,125	8,043	4,974	6,251	8,047
164	5,151	5,895	8,034	5,092	6,01	8,038
165	5,267	5,707	8,04	5,209	5,801	8,037
166	5,371	5,542	8,061	5,319	5,625	8,051
167	5,472	5,388	8,081	5,421	5,465	8,071
168	5,567	5,243	8,098	5,519	5,316	8,089
169	5,658	5,102	8,111	5,613	5,173	8,104
170	5,743	4,964	8,122	5,7	5,033	8,116
171	5,82	4,833	8,137	5,781	4,898	8,13
172	5,892	4,701	8,146	5,856	4,767	8,141
173	5,966	4,578	8,158	5,929	4,639	8,152
174	6,045	4,474	8,203	6,006	4,526	8,18
175	6,13	4,32	8,248	6,088	4,397	8,226
176	6,221	4,145	8,303	6,176	4,232	8,276
177	6,318	3,925	8,369	6,269	4,035	8,336
178	6,416	3,426	8,434	6,367	3,675	8,401
179	6,643	3,172	8,697	6,53	3,299	8,565
180	7,724	2,777	9,21	7,184	2,975	8,953
181	9,095	2,408	9,209	8,41	2,593	9,209
182	9,713	2,067	9,181	9,404	2,237	9,195
182,555	9,964	2,026	9,072	5,46	1,136	5,065
183	10,028	2,013	8,937	4,448	0,899	4,007
184	11,262	1,868	8,554	10,645	1,94	8,745
185	12,56	1,38	8,427	11,911	1,624	8,49
186	13,402	1,069	8,361	12,981	1,224	8,394
187	13,819	1,122	8,443	13,611	1,095	8,402
187,773	13,696	1,234	8,459	10,635	0,91	6,532
188	13,546	1,316	8,468	3,092	0,289	1,921
189	12,667	1,423	8,618	13,107	1,37	8,543
190	11,285	1,38	8,741	11,976	1,402	8,68
191	10,35	1,545	8,864	10,817	1,462	8,803

192	9,282	1,568	8,985	9,816	1,557	8,925
193	10,106	1,305	9,021	9,694	1,436	9,003
194	10,466	1	9,087	10,286	1,152	9,054
194,708	10,757	0,783	9,161	7,513	0,631	6,46
195	10,904	0,687	9,189	3,163	0,215	2,679
196	11,517	0,312	9,226	11,211	0,5	9,208
197	12,279	0,412	9,241	11,898	0,362	9,234
198	13,172	0,012	9,317	12,725	0,212	9,279
199	14,604	0	9,403	13,888	0,006	9,36
199,927	15,939	0	9,475	14,156	0	8,75
200	16,046	0	9,482	1,167	0	0,692
201	17,433	0	9,57	16,739	0	9,526
202	18,468	0	9,623	17,951	0	9,597
203	19,324	0	9,675	18,896	0	9,649
204	20,126	0	9,725	19,725	0	9,7
205	20,916	0	9,764	20,521	0	9,744
206	21,76	0	9,8	21,338	0	9,782
207	22,704	0	9,843	22,232	0	9,822
208	23,908	0	9,887	23,306	0	9,865
209	25,662	0	9,928	24,785	0	9,908
210	28,436	0	9,961	27,049	0	9,944
211	32,234	0	9,974	30,335	0	9,967
212	36,442	0	10	34,338	0	9,987
213	39,974	0	10,112	38,208	0	10,056
214	43,669	0	10,202	41,821	0	10,157
215	47,332	0	10,234	45,5	0	10,218
216	48,85	0	10,205	48,091	0	10,22
217	47,719	0	10,259	48,284	0	10,232
218	44,073	0	10,324	45,896	0	10,292
219	37,972	0	10,259	41,022	0	10,291
220	32,58	0	10,173	35,276	0	10,216
221	29,937	0	10,08	31,258	0	10,127
222	30,555	0	10,17	30,246	0	10,125
223	32,727	0	10,242	31,641	0	10,206
224	35,947	0	10,421	34,337	0	10,332
225	38,391	0	10,523	37,169	0	10,472
226	40,172	0	10,662	39,282	0	10,592
227	41,779	0	10,815	40,976	0	10,739
228	43,968	0	10,989	42,873	0	10,902
229	45,649	0	11,081	44,808	0	11,035
230	45,956	0	10,991	45,802	0	11,036
231	45,869	0	10,805	45,912	0	10,898
232	46,006	0	10,564	45,938	0	10,684
233	46,507	0	10,482	46,256	0	10,523
234	47,882	0	10,6	47,195	0	10,541
235	49,15	0	10,88	48,516	0	10,74
236	50,123	0	11,316	49,637	0	11,098
237	51,495	0	11,649	50,809	0	11,482
238	52,715	0	11,854	52,105	0	11,751

239	52,484	0	11,816	52,6	0	11,835
240	50,813	0	11,706	51,649	0	11,761
240,893	49,19	0	11,63	44,652	0	10,419
241	49,125	0	11,604	5,26	0	1,243
242	47,027	0	11,532	48,076	0	11,568
243	45,357	0	11,563	46,192	0	11,548
244	42,839	0	11,761	44,098	0	11,662
245	38,839	0	11,802	40,839	0	11,782
246	35,262	0	11,595	37,05	0	11,698
247	32,951	0	11,539	34,106	0	11,567
248	30,666	0	11,491	31,808	0	11,515
249	29,434	0	11,455	30,05	0	11,473
250	30,078	0	11,383	29,756	0	11,419
251	30,314	0	11,197	30,196	0	11,29
252	32,133	0	10,807	31,224	0	11,002
253	35,357	0	10,388	33,745	0	10,598
254	31,887	0	10,082	33,622	0	10,235
255	30,194	0	10,026	31,041	0	10,054
256	27,88	0	9,995	29,037	0	10,01
257	24,551	0	9,809	26,216	0	9,902
258	21,375	0	9,535	22,963	0	9,672
259	19,115	0,156	8,583	20,245	0,078	9,059
260	17,611	0,308	8,461	18,363	0,232	8,522
261	16,541	0,467	8,349	17,076	0,387	8,405
262	14,824	0,591	8,237	15,683	0,529	8,293
263	12,185	0,705	8,123	13,504	0,648	8,18
<b>TOTALES:</b>	<b>2913,197</b>	<b>2064,935</b>	<b>2355,622</b>	<b>2796,88</b>	<b>1980,707</b>	<b>2249,43</b>

**FASE 1.1:**

P.K.	Sup.Desmante	Sup.Terraplén	Sup.Vegetal	Vol.Desmante	Vol.Terraplén	Vol.Vegetal
262	14,824	0,591	8,237	15,683	0,529	8,293
263	12,185	0,705	8,123	13,504	0,648	8,18
263,81	10,062	0,765	8,028	9,01	0,595	6,541
264	9,602	0,774	8,014	1,868	0,146	1,524
265	8,138	0,843	7,943	8,87	0,809	7,978
266	7,196	0,861	7,868	7,667	0,852	7,905
267	6,489	1,013	7,772	6,843	0,937	7,82
268	5,945	1,263	7,668	6,217	1,138	7,72
269	5,436	1,416	7,57	5,69	1,34	7,619
270	4,906	1,733	7,5	5,171	1,574	7,535
271	4,57	2,526	7,445	4,738	2,129	7,473
272	4,278	3	7,395	4,424	2,763	7,42
273	4,181	3,415	7,318	4,229	3,208	7,356
274	4,136	3,65	7,253	4,159	3,533	7,285
275	4,061	3,669	7,195	4,099	3,66	7,224
276	4	3,739	7,166	4,031	3,704	7,181
277	3,997	3,927	7,162	3,999	3,833	7,164



278	4,035	4,194	7,163	4,016	4,06	7,163
279	4,09	4,583	7,161	4,062	4,389	7,162
280	4,435	4,304	7,187	4,263	4,444	7,174
281	4,528	4,425	7,182	4,481	4,364	7,185
282	4,399	4,754	7,165	4,463	4,589	7,174
<b>TOTALES:</b>	<b>135,493</b>	<b>56,15</b>	<b>165,515</b>	<b>131,487</b>	<b>53,244</b>	<b>158,076</b>

## MOVIMIENTO DE TIERRAS DEL EJE 6:

### FASE 1.1:

P.K.	Sup.Desmorte	Sup.Terraplén	Sup.Vegetal	Vol.Desmorte	Vol.Terraplén	Vol.Vegetal
8	3,393	15,27	12,525			
8,454	1,4745	7,091	5,698	1,5855	7,363	5,9805
<b>TOTALES:</b>	<b>4,8675</b>	<b>22,361</b>	<b>18,223</b>	<b>1,5855</b>	<b>7,363</b>	<b>5,9805</b>

### FASE 1.2:

P.K.	Sup.Desmorte	Sup.Terraplén	Sup.Vegetal	Vol.Desmorte	Vol.Terraplén	Vol.Vegetal
9	1,4745	7,091	5,698	1,5855	7,363	5,9805
10	2,522	13,081	10,271	2,736	13,632	10,834
11	2,106	11,933	9,141	2,314	12,507	9,706
12	1,923	10,556	8,118	2,014	11,245	8,629
13	1,769	9,127	7,104	1,846	9,841	7,611
14	1,725	8,571	6,711	1,747	8,849	6,908
15	1,683	7,951	6,303	1,704	8,261	6,507
16	1,698	7,062	5,878	1,69	7,507	6,09
17	1,77	6,023	5,458	1,734	6,543	5,668
18	1,833	4,837	5,044	1,801	5,43	5,251
19	1,875	3,912	4,636	1,854	4,374	4,84
20	1,909	3,244	4,237	1,892	3,578	4,436
21	1,949	3,026	4,111	1,929	3,135	4,174
22	2	2,935	4,078	1,975	2,981	4,094
23	2,057	2,819	4,033	2,028	2,877	4,055
24	2,122	2,819	4,198	2,089	2,819	4,115
25	2,204	2,68	4,362	2,163	2,749	4,28
26	2,296	2,533	4,567	2,25	2,606	4,465
27	2,402	2,426	4,407	2,349	2,479	4,487
28	2,666	2,382	4,146	2,534	2,404	4,276
29	2,826	2,214	3,974	2,746	2,298	4,06
30	2,895	2,047	3,94	2,861	2,131	3,957
31	2,913	1,926	3,929	2,904	1,987	3,935
32	2,927	1,861	3,934	2,92	1,893	3,931
33	2,948	1,846	3,976	2,938	1,853	3,955
34	2,979	2,021	4,353	2,963	1,934	4,165
35	3,018	2,024	4,737	2,998	2,022	4,545
36	3,066	1,777	4,647	3,042	1,9	4,692
37	3,123	1,631	4,551	3,095	1,704	4,599
37,229	3,137	1,625	4,557	0,717	0,373	1,043
38	3,204	1,556	4,547	2,445	1,226	3,51
39	3,419	1,429	4,497	3,312	1,492	4,522
40	3,422	1,288	4,245	3,42	1,359	4,371
41	3,416	1,195	3,96	3,419	1,242	4,102

42	3,462	1,194	3,811	3,439	1,194	3,885
43	3,526	1,274	3,744	3,494	1,234	3,777
44	3,563	1,154	3,567	3,544	1,214	3,656
44,454	3,577	1,045	3,5	1,621	0,499	1,604
45	3,597	1,013	3,525	1,959	0,562	1,918
46	3,648	1,006	3,574	3,623	1,009	3,55
47	3,7	1,022	3,607	3,674	1,014	3,591
48	3,749	1,041	3,655	3,724	1,031	3,631
49	3,795	1,081	3,747	3,772	1,061	3,701
50	3,847	0,996	3,784	3,821	1,039	3,765
51	3,972	1,002	3,918	3,909	0,999	3,851
52	4,193	0,875	4,064	4,082	0,938	3,991
53	4,249	0,5	4,03	4,221	0,687	4,047
54	4,256	0,387	3,892	4,252	0,443	3,961
55	4,246	0,418	3,946	4,251	0,403	3,919
56	4,238	0,74	3,958	4,242	0,579	3,952
57	4,235	0,707	3,898	4,236	0,723	3,928
58	4,239	0,688	3,858	4,237	0,697	3,878
59	4,248	0,726	3,873	4,243	0,707	3,866
60	4,265	0,759	3,864	4,256	0,742	3,869
61	4,289	0,746	3,787	4,277	0,752	3,826
62	4,319	0,705	3,656	4,304	0,725	3,721
63	4,352	0,661	3,525	4,336	0,683	3,59
64	4,382	0,697	3,504	4,367	0,679	3,515
65	4,376	0,735	3,558	4,379	0,716	3,531
66	4,345	0,73	3,6	4,36	0,732	3,579
67	4,327	0,458	3,582	4,336	0,594	3,591
68	4,319	0,461	3,587	4,323	0,459	3,584
68,312	4,324	0,423	3,448	1,348	0,138	1,097
69	4,242	1,087	3,421	2,947	0,519	2,363
70	3,209	2,751	3,455	3,725	1,919	3,438
71	1,719	4,642	3,496	2,464	3,697	3,475
72	0,83	7,452	3,533	1,274	6,047	3,514
73	0,911	10,226	3,615	0,87	8,839	3,574
74	1,729	9,202	3,635	1,32	9,714	3,625
75	2,714	8,104	3,655	2,221	8,653	3,645
76	3,135	8,06	3,628	2,925	8,082	3,641
77	2,954	8,124	3,584	3,044	8,092	3,606
78	2,49	8,19	3,536	2,722	8,157	3,56
79	1,747	8,423	3,527	2,118	8,307	3,531
80	0,684	9,42	3,719	1,216	8,922	3,623
81	0,1	11,15	3,923	0,392	10,285	3,821
82	0	13,494	4,129	0,05	12,322	4,026
83	0	15,425	4,174	0	14,459	4,152
84	0	16,988	4,178	0	16,206	4,176
85	0	17,339	4,135	0	17,164	4,156
86	0,304	10,535	4,272	0,152	13,937	4,204
86,522	2,046	8,6	4,297	0,613	4,994	2,237
87	2,904	8,679	4,305	1,183	4,13	2,056

88	3,553	8,622	4,302	3,229	8,65	4,303
89	4,022	8,388	4,299	3,787	8,505	4,3
90	3,831	8,189	4,292	3,926	8,288	4,296
91	3,323	8,124	4,288	3,577	8,156	4,29
92	2,599	8,171	4,284	2,961	8,148	4,286
93	1,775	8,466	4,283	2,187	8,319	4,284
94	1,018	8,925	4,249	1,397	8,695	4,266
95	0,427	9,838	4,215	0,723	9,382	4,232
96	0,156	11,001	4,179	0,292	10,42	4,197
97	0,151	11,805	4,06	0,154	11,403	4,119
98	0,231	12,168	3,984	0,191	11,986	4,022
99	0,397	12,158	3,908	0,314	12,163	3,946
100	0,619	8,662	3,791	0,508	10,41	3,85
100,04	0,643	8,502	3,788	0,025	0,343	0,152
101	1,733	1,714	3,346	1,141	4,904	3,425
102	2,858	1,759	3,312	2,296	1,737	3,329
103	3,085	3,056	3,56	2,972	2,408	3,436
104	3,162	1,162	3,365	3,123	2,109	3,463
105	3,226	1,079	3,374	3,194	1,12	3,369
106	3,283	0,903	3,468	3,255	0,991	3,421
107	3,346	0,677	3,749	3,314	0,79	3,609
108	3,431	0,625	3,864	3,389	0,651	3,807
109	3,524	0,574	3,943	3,478	0,599	3,903
110	3,629	0,53	3,895	3,577	0,552	3,919
111	3,726	0,491	3,882	3,678	0,51	3,889
112	4,058	0,402	3,915	3,892	0,446	3,899
113	4,472	0,356	3,944	4,265	0,379	3,929
114	4,696	0,349	3,968	4,584	0,353	3,956
115	4,722	0,344	3,975	4,709	0,347	3,972
116	4,537	0,374	3,93	4,63	0,359	3,952
117	4,399	0,812	4,004	4,468	0,593	3,967
118	4,357	0,863	4,053	4,378	0,837	4,029
119	4,319	0,606	4,034	4,338	0,734	4,044
120	4,21	0,903	3,983	4,265	0,754	4,009
121	4,058	1,06	3,934	4,134	0,982	3,959
122	3,918	1,205	3,979	3,988	1,133	3,956
123	3,804	1,402	4,039	3,861	1,304	4,009
124	3,681	1,6	4,123	3,742	1,501	4,081
125	3,523	1,904	4,471	3,602	1,752	4,297
126	3,361	1,948	4,579	3,442	1,926	4,525
127	3,27	1,941	4,614	3,316	1,944	4,596
128	3,269	2	4,727	3,269	1,97	4,67
129	3,321	2,007	4,8	3,295	2,003	4,764
130	3,249	2,011	4,856	3,285	2,009	4,828
131	3,2	2,013	4,769	3,225	2,012	4,812
132	3,171	2,015	4,666	3,185	2,014	4,717
133	3,146	2,034	4,5	3,158	2,024	4,583
134	3,127	2,042	4,414	3,137	2,038	4,457
135	3,118	2,062	4,331	3,123	2,052	4,372

136	3,095	2,107	4,295	3,107	2,085	4,313
136,366	3,085	2,119	4,283	1,131	0,773	1,57
137	3,073	2,162	4,281	1,952	1,357	2,715
138	3,071	2,209	4,278	3,072	2,185	4,279
139	3,088	2,224	4,305	3,079	2,216	4,291
140	3,11	2,149	4,397	3,099	2,186	4,351
141	3,13	2,159	4,444	3,12	2,154	4,421
142	3,146	2,226	4,496	3,138	2,193	4,47
143	3,158	2,327	4,561	3,152	2,276	4,529
144	3,164	2,373	4,574	3,161	2,35	4,568
145	3,166	2,376	4,565	3,165	2,375	4,57
146	3,174	2,389	4,573	3,17	2,382	4,569
147	3,19	2,427	4,606	3,182	2,408	4,589
148	3,21	2,468	4,644	3,2	2,448	4,625
149	3,232	2,496	4,677	3,221	2,482	4,661
150	3,258	2,508	4,71	3,245	2,502	4,694
151	3,286	2,51	4,745	3,272	2,509	4,728
152	3,317	2,695	5,277	3,301	2,603	5,011
153	3,485	1,991	5,927	3,401	2,343	5,602
154	3,943	1,615	6,379	3,714	1,803	6,153
155	4,633	1,44	6,786	4,288	1,527	6,583
156	5,868	1,324	7,056	5,25	1,382	6,921
157	6,646	1,192	7,211	6,257	1,258	7,133
158	7,121	1,138	7,39	6,884	1,165	7,301
159	7,365	1,049	7,449	7,243	1,093	7,42
160	5,778	0,87	7,307	6,572	0,96	7,378
161	4,582	0,915	7,24	5,18	0,892	7,273
162	4,744	1,598	7,204	4,663	1,257	7,222
163	4,8	1,996	7,528	4,772	1,797	7,366
164	4,732	2,138	7,615	4,766	2,067	7,571
165	4,61	2,243	7,702	4,671	2,191	7,658
166	4,525	2,258	7,744	4,567	2,251	7,723
167	4,465	2,122	7,76	4,495	2,19	7,752
168	4,387	1,912	7,489	4,426	2,017	7,624
169	4,358	1,497	6,448	4,372	1,704	6,969
170	4,374	1,281	5,628	4,366	1,389	6,038
171	4,424	1,056	4,66	4,399	1,168	5,144
172	4,481	0,895	4,275	4,452	0,975	4,468
173	4,546	0,803	4,1	4,513	0,849	4,188
174	4,592	0,757	3,849	4,569	0,78	3,974
175	4,346	0,72	3,598	4,469	0,739	3,723
176	3,96	0,752	3,449	4,153	0,736	3,523
177	3,929	0,677	3,349	3,945	0,714	3,399
178	3,896	0,673	3,322	3,912	0,675	3,335
179	3,837	0,642	3,247	3,867	0,657	3,285
180	3,772	0,62	3,192	3,804	0,631	3,22
181	3,703	0,628	3,169	3,737	0,624	3,181
182	3,645	0,639	3,16	3,674	0,633	3,164
183	3,648	0,629	3,172	3,647	0,634	3,166

184	3,695	0,622	3,194	3,672	0,625	3,183
185	3,763	0,611	3,225	3,729	0,617	3,21
186	3,859	0,588	3,261	3,811	0,6	3,243
187	3,934	0,543	3,299	3,896	0,565	3,28
187,689	3,973	0,528	3,336	2,724	0,369	2,286
188	3,997	0,554	3,378	1,239	0,168	1,044
189	4,059	0,587	3,505	4,028	0,571	3,441
190	4,152	0,58	3,624	4,106	0,583	3,564
191	4,24	0,205	3,734	4,196	0,392	3,679
192	4,301	0,192	3,822	4,271	0,198	3,778
193	4,339	0,176	3,87	4,32	0,184	3,846
194	4,422	0,166	3,897	4,38	0,171	3,883
195	4,527	0,165	3,872	4,474	0,165	3,884
196	4,636	0,169	3,855	4,581	0,167	3,864
197	4,715	0,175	3,811	4,675	0,172	3,833
198	4,801	0,181	3,775	4,758	0,178	3,793
199	4,838	0,188	3,721	4,819	0,185	3,748
200	4,856	0,196	3,636	4,847	0,192	3,678
201	4,93	0,196	3,587	4,893	0,196	3,611
202	5,149	0,193	3,668	5,04	0,194	3,627
203	5,323	0,192	3,735	5,236	0,192	3,702
204	5,458	0,19	3,753	5,39	0,191	3,744
205	5,566	0,188	3,757	5,512	0,189	3,755
206	5,615	0,187	3,745	5,591	0,187	3,751
207	5,636	0,188	3,75	5,626	0,187	3,748
208	5,628	0,187	3,757	5,632	0,187	3,753
209	5,474	0,185	3,75	5,551	0,186	3,754
210	5,266	0,186	3,729	5,37	0,186	3,739
211	5,03	0,19	3,699	5,148	0,188	3,714
212	4,8	0,19	3,671	4,915	0,19	3,685
213	4,659	0,18	3,637	4,73	0,185	3,654
214	4,636	0,171	3,637	4,648	0,176	3,637
215	4,686	0,169	3,653	4,661	0,17	3,645
216	4,725	0,168	3,564	4,706	0,169	3,608
217	4,638	0,168	3,341	4,682	0,168	3,453
218	4,531	0,416	3,334	4,585	0,292	3,338
219	4,572	0,392	3,362	4,552	0,404	3,348
220	4,619	0,368	3,392	4,596	0,38	3,377
220,658	4,648	0,18	3,432	3,049	0,18	2,245
221	4,687	0,189	3,485	1,596	0,063	1,183
222	4,945	0,196	2,413	4,816	0,193	2,949
223	5,356	0	2,578	5,151	0,098	2,495
224	5,446	0	2,702	5,401	0	2,64
225	5,513	0	2,851	5,48	0	2,777
226	5,196	0,007	3,038	5,355	0,003	2,945
227	4,807	0,057	3,261	5,001	0,032	3,15
228	4,508	0,572	3,129	4,657	0,314	3,195
229	4,245	1,559	2,931	4,377	1,065	3,03
230	3,137	5,07	2,768	3,691	3,314	2,849

231	2,544	3,527	2,81	2,841	4,298	2,789
232	3,803	1,604	2,857	3,173	2,565	2,834
233	4,475	0,59	2,908	4,139	1,097	2,882
234	4,837	0,411	2,911	4,656	0,501	2,909
235	4,722	0	2,881	4,779	0,206	2,896
236	4,124	0,46	2,856	4,423	0,23	2,868
237	3,383	0,288	2,814	3,754	0,374	2,835
238	2,883	0	2,779	3,133	0,144	2,796
239	2,338	0,006	2,749	2,61	0,003	2,764
240	1,836	0,049	2,728	2,087	0,028	2,739
241	1,402	1,955	2,715	1,619	1,002	2,722
242	0,459	3,306	2,709	0,93	2,63	2,712
243	0,33	3,538	2,709	0,395	3,422	2,709
244	0,595	1,934	2,716	0,463	2,736	2,712
245	1,105	0,477	2,503	0,85	1,206	2,609
246	1,833	0,526	2,281	1,469	0,502	2,392
247	1,97	0,538	2,279	1,901	0,532	2,28
248	2,019	0,599	2,5	1,994	0,568	2,39
249	2,07	0,494	2,442	2,044	0,547	2,471
250	2,117	0,455	2,389	2,094	0,474	2,416
251	1,88	0,515	2,342	1,999	0,485	2,365
252	1,426	0,934	2,275	1,653	0,725	2,308
253	0,936	1,933	2,221	1,181	1,433	2,248
254	0,26	2,896	2,208	0,598	2,414	2,214
255	0,575	1,598	2,218	0,418	2,247	2,213
256	1,083	0,56	2,228	0,829	1,079	2,223
257	1,592	0,579	2,243	1,338	0,57	2,235
258	1,705	0,568	2,214	1,649	0,574	2,229
259	1,822	0,525	2,158	1,764	0,547	2,186
260	1,946	0,465	2,204	1,884	0,495	2,181
261	2,05	0,404	2,25	1,998	0,435	2,227
261,946	2,05	0,072	2,269	1,939	0,225	2,137
262	2,045	0,072	2,27	0,111	0,004	0,123
263	1,909	0,425	2,288	1,977	0,248	2,279
264	1,905	0,038	2,355	1,907	0,231	2,321
265	1,99	0,013	2,431	1,948	0,025	2,393
266	1,753	0,01	2,452	1,871	0,011	2,442
267	1,714	0,04	2,389	1,733	0,025	2,421
268	1,826	0,426	2,239	1,77	0,233	2,314
269	1,914	0,454	2,138	1,87	0,44	2,188
270	1,65	0,433	2,008	1,782	0,444	2,073
271	1,496	0,409	1,889	1,573	0,421	1,948
272	1,53	0,399	1,811	1,513	0,404	1,85
273	1,568	0,442	1,848	1,549	0,42	1,829
274	1,564	0,445	1,859	1,566	0,443	1,853
275	1,363	0,461	1,822	1,464	0,453	1,84
276	0,867	0,568	1,857	1,115	0,514	1,84
277	0,538	0,998	1,883	0,703	0,783	1,87
277,848	0,385	1,506	1,903	0,391	1,062	1,605

278	0,373	1,594	1,902	0,058	0,236	0,289
279	0,555	2,067	1,913	0,464	1,831	1,908
280	0,836	1,983	1,897	0,695	2,025	1,905
281	1,212	0,365	1,971	1,024	1,174	1,934
282	1,953	0,346	2,11	1,582	0,356	2,041
283	2,838	0,309	2,21	2,395	0,328	2,16
284	3,36	0,277	2,283	3,099	0,293	2,247
285	3,936	0,249	2,329	3,648	0,263	2,306
286	2,783	0,245	1,737	3,359	0,247	2,033
287	5,068	0,23	2,623	3,926	0,237	2,18
288	5,317	0,451	2,835	5,193	0,341	2,729
289	5,544	0,89	2,987	5,431	0,67	2,911
290	5,86	0,872	3,057	5,702	0,881	3,022
291	6,402	0	3,155	6,131	0,436	3,106
292	6,587	0	3,065	6,494	0	3,11
293	6,621	0	2,977	6,604	0	3,021
294	6,023	0	2,794	6,322	0	2,886
295	6,049	0	2,827	6,036	0	2,811
296	5,839	0	2,808	5,944	0	2,817
297	5,229	0	2,711	5,534	0	2,76
298	4,475	0	2,594	4,852	0	2,653
299	3,097	0	2,47	3,786	0	2,532
300	1,467	0,42	2,332	2,282	0,21	2,401
301	1,559	0,443	2,303	1,513	0,431	2,318
302	3,395	0	2,189	2,477	0,221	2,246
303	4,519	0	2,095	3,957	0	2,142
304	4,717	0	2,142	4,618	0	2,119
304,872	4,809	0	2,234	4,153	0	1,908
<b>TOTALES:</b>	<b>1014,6605</b>	<b>676,665</b>	<b>1167,313</b>	<b>985,5445</b>	<b>658,798</b>	<b>1137,011</b>



## MOVIMIENTO DE TIERRAS DEL EJE 7:

### FASE 2:

P.K.	Sup.Desmonte	Sup.Terraplén	Sup.Vegetal	Vol.Desmorte	Vol.Terraplén	Vol.Vegetal
0	18,317	2,335	12,281			
1	16,202	2,869	12,171	17,26	2,602	12,226
2	14,166	3,472	12,06	15,184	3,17	12,115
3	12,112	5,006	11,812	13,139	4,239	11,936
4	9,592	8,318	11,739	10,852	6,662	11,775
5	7,472	9,908	11,647	8,532	9,113	11,693
6	6,591	9,81	11,217	7,031	9,859	11,432
7	6,229	9,228	10,674	6,41	9,519	10,945
8	6,016	8,654	10,181	6,122	8,941	10,427
9	6,023	8,04	9,691	6,019	8,347	9,936
10	6,224	7,378	9,198	6,123	7,709	9,445
11	6,507	7,26	9,067	6,365	7,319	9,133
12	6,655	7,301	9,068	6,581	7,281	9,068
13	6,636	7,253	9,066	6,646	7,277	9,067
14	6,556	7,142	9,067	6,596	7,197	9,067
15	6,508	7,016	9,067	6,532	7,079	9,067
16	6,49	6,923	9,055	6,499	6,969	9,061
17	6,486	6,861	9,046	6,488	6,892	9,051
18	6,488	6,876	9,04	6,487	6,868	9,043
19	6,493	6,864	9,034	6,49	6,87	9,037
20	6,492	6,811	9,028	6,492	6,838	9,031
21	6,478	6,746	9,045	6,485	6,779	9,037
22	6,455	6,648	9,058	6,467	6,697	9,052
23	6,419	6,52	9,07	6,437	6,584	9,064
24	6,389	6,39	9,081	6,404	6,455	9,076
25	6,377	6,269	9,09	6,383	6,33	9,086
26	6,389	6,158	9,097	6,383	6,213	9,094
27	6,418	6,067	9,106	6,403	6,112	9,101
28	6,458	5,989	9,113	6,438	6,028	9,11
29	6,51	5,92	9,114	6,484	5,955	9,114
30	6,563	5,882	9,113	6,537	5,901	9,113
31	6,611	5,861	9,113	6,587	5,872	9,113
32	6,666	5,864	9,109	6,638	5,863	9,111
33	6,723	5,894	9,105	6,695	5,879	9,107
34	6,753	5,912	9,099	6,738	5,903	9,102
35	6,755	5,925	9,094	6,754	5,918	9,096
36	6,744	5,944	9,089	6,75	5,934	9,091
37	6,734	5,98	9,084	6,739	5,962	9,087
38	6,724	6,032	9,079	6,729	6,006	9,082
39	6,966	6,233	9,29	6,845	6,132	9,184
40	7,399	6,581	9,673	7,182	6,407	9,481
41	7,832	6,944	10,065	7,616	6,762	9,869
42	8,261	7,306	10,446	8,047	7,125	10,256

43	8,879	7,658	10,928	8,57	7,482	10,687
44	10,501	7,919	11,949	9,69	7,789	11,439
45	12,109	8,223	12,986	11,305	8,071	12,467
46	13,697	8,525	14,017	12,903	8,374	13,501
47	15,288	8,623	14,898	14,492	8,574	14,458
48	16,919	8,375	15,531	16,103	8,499	15,215
49	18,511	8,09	16,162	17,715	8,233	15,847
50	20,073	7,78	16,788	19,292	7,935	16,475
51	21,253	7,393	17,215	20,663	7,586	17,001
52	21,993	6,895	17,397	21,623	7,144	17,306
53	22,719	6,383	17,574	22,356	6,639	17,485
54	23,428	5,859	17,749	23,074	6,121	17,661
55	24,117	5,317	17,929	23,772	5,588	17,839
56	24,804	4,745	18,104	24,46	5,031	18,017
57	24,231	5,213	18,067	24,517	4,979	18,086
57,267	24,611	5,052	18,089	6,52	1,37	4,827
58	24,098	5,207	18,058	17,852	3,76	13,248
59	23,431	5,422	18,013	23,765	5,314	18,036
60	22,772	5,672	17,968	23,102	5,547	17,991
61	22,119	5,936	17,934	22,445	5,804	17,951
62	20,705	6,232	17,289	21,412	6,084	17,612
63	19,312	6,522	16,646	20,009	6,377	16,967
64	17,935	6,803	16,001	18,624	6,662	16,323
65	16,571	7,078	15,357	17,253	6,941	15,679
66	15,227	7,339	14,713	15,899	7,209	15,035
67	13,894	7,594	14,07	14,561	7,467	14,391
68	12,585	7,835	13,434	13,24	7,714	13,752
69	11,972	7,602	12,948	12,279	7,718	13,191
70	11,364	7,365	12,462	11,668	7,483	12,705
71	10,801	7,134	11,975	11,082	7,249	12,219
72	10,259	6,911	11,488	10,53	7,022	11,731
73	9,728	6,693	11,001	9,993	6,802	11,245
74	9,198	6,472	10,514	9,463	6,582	10,758
75	8,665	6,248	10,028	8,931	6,36	10,271
76	8,13	6,014	9,543	8,398	6,131	9,785
77	7,59	5,77	9,058	7,86	5,892	9,3
78	7,599	5,739	9,058	7,595	5,755	9,058
79	7,61	5,712	9,057	7,604	5,726	9,057
80	7,621	5,683	9,055	7,615	5,698	9,056
81	7,636	5,645	9,053	7,629	5,664	9,054
82	7,655	5,605	9,051	7,646	5,625	9,052
83	7,674	5,572	9,051	7,664	5,588	9,051
84	7,695	5,555	9,052	7,685	5,563	9,052
85	7,724	5,562	9,052	7,71	5,558	9,052
86	7,766	5,589	9,053	7,745	5,576	9,053
87	7,805	5,628	9,054	7,785	5,609	9,054
88	7,837	5,668	9,054	7,821	5,648	9,054
89	7,857	5,697	9,053	7,847	5,682	9,053
90	7,865	5,715	9,051	7,861	5,706	9,052

91	7,861	5,72	9,051	7,863	5,717	9,051
92	7,845	5,721	9,051	7,853	5,721	9,051
93	7,817	5,727	9,053	7,831	5,724	9,052
94	7,773	5,732	9,053	7,795	5,73	9,053
95	7,716	5,742	9,054	7,744	5,737	9,053
96	7,654	5,766	9,055	7,685	5,754	9,055
97	7,589	5,804	9,056	7,622	5,785	9,056
98	7,526	5,855	9,057	7,557	5,83	9,056
99	7,456	5,911	9,058	7,491	5,883	9,058
100	7,377	5,967	9,06	7,417	5,939	9,059
101	7,286	6,027	9,061	7,332	5,997	9,06
102	7,205	6,088	9,064	7,246	6,057	9,062
103	7,176	6,142	9,066	7,191	6,115	9,065
104	7,158	6,19	9,068	7,167	6,166	9,067
105	7,142	6,234	9,07	7,15	6,212	9,069
106	7,126	6,261	9,072	7,134	6,247	9,071
107	7,113	6,273	9,072	7,12	6,267	9,072
108	7,101	6,281	9,072	7,107	6,277	9,072
109	7,091	6,291	9,072	7,096	6,286	9,072
110	7,083	6,305	9,073	7,087	6,298	9,072
111	7,074	6,313	9,073	7,078	6,309	9,073
112	7,065	6,325	9,073	7,069	6,319	9,073
113	7,055	6,336	9,074	7,06	6,33	9,073
114	7,043	6,351	9,075	7,049	6,344	9,075
115	7,032	6,367	9,076	7,038	6,359	9,076
116	7,019	6,385	9,077	7,026	6,376	9,077
117	7,008	6,404	9,078	7,014	6,395	9,078
118	6,997	6,423	9,079	7,003	6,414	9,078
118,814	6,986	6,44	9,079	5,691	5,235	7,39
119	6,983	6,445	9,08	1,299	1,198	1,689
120	6,969	6,465	9,081	6,976	6,455	9,08
121	6,954	6,487	9,082	6,962	6,476	9,081
122	6,94	6,512	9,082	6,947	6,5	9,082
123	6,927	6,537	9,083	6,934	6,525	9,083
124	6,914	6,562	9,084	6,921	6,549	9,084
125	6,899	6,589	9,085	6,907	6,575	9,084
126	6,884	6,614	9,086	6,892	6,602	9,085
127	6,867	6,639	9,087	6,875	6,626	9,086
128	6,845	6,663	9,088	6,856	6,651	9,087
129	6,825	6,685	9,089	6,835	6,674	9,088
130	6,8	6,706	9,089	6,812	6,695	9,089
131	6,774	6,726	9,09	6,787	6,716	9,09
132	6,749	6,743	9,091	6,761	6,735	9,091
133	6,72	6,76	9,092	6,734	6,752	9,092
134	6,69	6,78	9,093	6,705	6,77	9,093
135	6,68	6,79	9,093	6,685	6,785	9,093
136	6,686	6,799	9,093	6,683	6,795	9,093
137	6,695	6,791	9,093	6,691	6,795	9,093
138	6,705	6,786	9,093	6,7	6,789	9,093

139	6,716	6,773	9,092	6,711	6,779	9,092
140	6,777	6,707	9,092	6,746	6,74	9,092
141	6,968	6,504	9,091	6,873	6,606	9,091
142	7,165	6,306	9,091	7,067	6,405	9,091
143	7,365	6,109	9,09	7,265	6,208	9,09
144	7,568	5,917	9,09	7,466	6,013	9,09
145	7,772	5,723	9,089	7,67	5,82	9,09
146	8,831	4,654	9,091	8,301	5,188	9,09
147	10,417	3,051	9,095	9,624	3,852	9,093
148	11,935	1,611	9,128	11,176	2,331	9,112
149	13,099	0,643	9,131	12,517	1,127	9,129
150	14,176	0,129	10,079	13,638	0,386	9,605
151	14,208	0,129	10,08	14,192	0,129	10,079
152	14,243	0,129	10,08	14,225	0,129	10,08
153	14,28	0,129	10,081	14,261	0,129	10,081
154	14,315	0,129	10,082	14,298	0,129	10,081
155	13,28	0,653	9,13	13,797	0,391	9,606
156	12,156	1,619	9,126	12,718	1,136	9,128
157	10,65	3,07	9,093	11,403	2,344	9,109
158	9,067	4,646	9,088	9,859	3,858	9,09
159	8,171	5,515	9,085	8,619	5,08	9,087
160	8,177	5,509	9,085	8,174	5,512	9,085
161	8,18	5,5	9,084	8,178	5,504	9,084
162	8,182	5,492	9,083	8,181	5,496	9,083
163	8,183	5,484	9,081	8,183	5,488	9,082
164	8,184	5,481	9,08	8,184	5,483	9,08
165	8,185	5,473	9,079	8,185	5,477	9,08
166	8,183	5,463	9,077	8,184	5,468	9,078
167	8,181	5,454	9,076	8,182	5,459	9,077
168	8,178	5,443	9,075	8,18	5,449	9,075
169	8,176	5,433	9,073	8,177	5,438	9,074
170	8,172	5,421	9,072	8,174	5,427	9,073
171	8,168	5,408	9,071	8,17	5,414	9,072
172	8,164	5,394	9,07	8,166	5,401	9,071
173	8,161	5,383	9,07	8,163	5,389	9,07
174	8,161	5,374	9,069	8,161	5,378	9,07
175	8,161	5,364	9,069	8,161	5,369	9,069
176	8,137	5,371	9,07	8,149	5,367	9,069
177	8,051	5,411	9,072	8,094	5,391	9,071
178	7,962	5,45	9,073	8,007	5,43	9,072
179	7,87	5,495	9,075	7,916	5,472	9,074
180	7,781	5,552	9,077	7,825	5,523	9,076
181	7,694	5,643	9,081	7,738	5,597	9,079
182	7,609	5,736	9,084	7,652	5,689	9,082
183	7,525	5,825	9,088	7,567	5,78	9,086
184	7,441	5,912	9,091	7,483	5,869	9,089
185	7,354	5,996	9,094	7,397	5,954	9,092
186	7,268	6,075	9,095	7,311	6,035	9,095
187	7,179	6,156	9,097	7,224	6,116	9,096

188	7,091	6,238	9,101	7,135	6,197	9,099
189	7,001	6,325	9,103	7,046	6,282	9,102
190	6,91	6,406	9,106	6,956	6,365	9,105
191	6,817	6,481	9,107	6,864	6,443	9,106
192	6,723	6,549	9,109	6,77	6,515	9,108
193	6,63	6,613	9,11	6,677	6,581	9,109
194	6,538	6,675	9,112	6,584	6,644	9,111
195	6,448	6,732	9,114	6,493	6,703	9,113
196	6,358	6,79	9,116	6,403	6,761	9,115
197	6,27	6,845	9,119	6,314	6,817	9,117
198	6,192	6,89	9,12	6,231	6,867	9,119
199	6,135	6,933	9,121	6,163	6,912	9,12
200	6,101	6,981	9,122	6,118	6,957	9,122
201	6,083	7,028	9,123	6,092	7,005	9,123
202	6,074	7,07	9,124	6,079	7,049	9,124
203	6,069	7,098	9,124	6,071	7,084	9,124
204	6,075	7,109	9,124	6,072	7,103	9,124
205	6,084	7,115	9,123	6,079	7,112	9,123
206	6,094	7,115	9,123	6,089	7,115	9,123
207	6,111	7,112	9,122	6,103	7,114	9,122
208	6,132	7,099	9,121	6,122	7,106	9,122
209	6,155	7,067	9,12	6,143	7,083	9,121
210	6,181	7,03	9,12	6,168	7,049	9,12
211	6,215	6,997	9,12	6,198	7,013	9,12
212	6,259	6,972	9,118	6,237	6,984	9,119
213	6,302	6,954	9,117	6,28	6,963	9,118
214	6,346	6,941	9,116	6,324	6,947	9,116
215	6,385	6,927	9,114	6,365	6,934	9,115
216	6,415	6,905	9,114	6,4	6,916	9,114
217	6,437	6,871	9,112	6,426	6,888	9,113
218	6,455	6,844	9,111	6,446	6,858	9,112
219	6,475	6,842	9,11	6,465	6,843	9,111
220	6,487	6,84	9,11	6,481	6,841	9,11
221	6,49	6,831	9,108	6,489	6,836	9,109
222	6,49	6,785	9,106	6,49	6,808	9,107
223	6,518	6,739	9,104	6,504	6,762	9,105
224	6,578	6,72	9,103	6,548	6,729	9,104
225	6,63	6,687	9,102	6,604	6,703	9,103
226	6,669	6,629	9,099	6,65	6,658	9,101
227	6,762	6,549	9,096	6,715	6,589	9,098
228	6,868	6,446	9,092	6,815	6,498	9,094
229	7,007	6,325	9,086	6,938	6,386	9,089
230	7,184	6,187	9,082	7,096	6,256	9,084
231	7,309	6,066	9,078	7,247	6,127	9,08
232	7,385	5,978	9,075	7,347	6,022	9,076
233	7,424	5,904	9,072	7,404	5,941	9,073
234	7,453	5,844	9,069	7,438	5,874	9,07
235	7,483	5,802	9,066	7,468	5,823	9,067
236	7,513	5,752	9,063	7,498	5,777	9,065

237	7,594	5,691	9,06	7,554	5,721	9,061
238	7,707	5,604	9,057	7,65	5,648	9,059
239	7,836	5,532	9,055	7,771	5,568	9,056
240	7,95	5,445	9,05	7,893	5,488	9,052
241	8,106	5,327	9,061	8,028	5,386	9,055
242	9,165	4,311	9,082	8,635	4,819	9,072
243	10,207	3,244	9,09	9,686	3,777	9,086
244	10,707	2,798	9,137	10,457	3,021	9,114
245	10,831	2,725	9,159	10,769	2,761	9,148
246	10,963	2,685	9,169	10,897	2,705	9,164
247	11,106	2,656	9,173	11,034	2,671	9,171
248	11,242	2,612	9,169	11,174	2,634	9,171
249	10,776	2,984	9,144	11,009	2,798	9,156
250	9,79	3,762	9,149	10,283	3,373	9,146
251	8,837	4,432	9,158	9,313	4,097	9,153
252	8,854	4,353	9,171	8,846	4,393	9,164
253	8,907	4,323	9,18	8,881	4,338	9,176
254	8,972	4,297	9,18	8,94	4,31	9,18
255	9,046	4,265	9,18	9,009	4,281	9,18
256	9,146	4,253	9,178	9,096	4,259	9,179
257	9,246	4,2	9,171	9,196	4,226	9,175
258	9,35	4,111	9,166	9,298	4,156	9,169
259	9,461	4,027	9,172	9,406	4,069	9,169
260	9,56	3,946	9,184	9,511	3,987	9,178
261	9,643	3,931	9,205	9,602	3,938	9,194
262	9,673	3,915	9,214	9,658	3,923	9,21
263	9,63	3,847	9,217	9,651	3,881	9,215
264	9,529	3,75	9,22	9,58	3,799	9,218
265	9,45	3,666	9,238	9,49	3,708	9,229
266	9,49	3,635	9,253	9,47	3,651	9,245
267	9,621	3,604	9,261	9,555	3,62	9,257
268	9,794	3,5	9,264	9,707	3,552	9,262
269	10,003	3,417	9,269	9,898	3,458	9,266
270	10,189	3,333	9,27	10,096	3,375	9,269
271	10,331	3,259	9,274	10,26	3,296	9,272
272	10,376	3,281	9,284	10,354	3,27	9,279
273	10,214	3,318	9,292	10,295	3,3	9,288
274	10,05	3,336	9,302	10,132	3,327	9,297
275	10,074	3,365	9,311	10,062	3,351	9,307
276	10,085	3,347	9,313	10,08	3,356	9,312
277	10,107	3,309	9,315	10,096	3,328	9,314
278	10,134	3,255	9,304	10,12	3,282	9,309
279	10,183	3,212	9,304	10,159	3,233	9,304
280	10,27	3,2	9,3	10,226	3,206	9,302
281	10,387	3,212	9,299	10,328	3,206	9,299
282	10,506	3,222	9,293	10,446	3,217	9,296
283	10,595	3,203	9,289	10,55	3,213	9,291
284	10,65	3,149	9,285	10,623	3,176	9,287
285	10,677	3,073	9,288	10,663	3,111	9,287

286	10,699	2,977	9,286	10,688	3,025	9,287
287	10,733	2,886	9,288	10,716	2,931	9,287
288	10,788	2,803	9,285	10,76	2,844	9,286
289	10,857	2,703	9,278	10,822	2,753	9,282
290	10,945	2,604	9,278	10,901	2,654	9,278
291	11,062	2,516	9,279	11,004	2,56	9,278
292	11,205	2,457	9,291	11,134	2,486	9,285
293	11,377	2,428	9,326	11,291	2,442	9,309
294	11,567	2,387	9,349	11,472	2,407	9,338
295	11,778	2,333	9,355	11,672	2,36	9,352
296	12,002	2,275	9,36	11,89	2,304	9,358
297	12,231	2,202	9,37	12,117	2,239	9,365
298	12,458	2,111	9,387	12,345	2,157	9,378
299	12,67	1,98	9,398	12,564	2,046	9,392
300	12,859	1,847	9,413	12,765	1,914	9,406
301	12,995	1,739	9,425	12,927	1,793	9,419
302	13,099	1,658	9,431	13,047	1,699	9,428
303	13,183	1,594	9,441	13,141	1,626	9,436
304	13,253	1,529	9,443	13,218	1,562	9,442
305	13,309	1,471	9,447	13,281	1,5	9,445
306	13,354	1,427	9,456	13,331	1,449	9,451
307	13,387	1,379	9,468	13,37	1,403	9,462
308	13,414	1,309	9,48	13,401	1,344	9,474
309	13,439	1,251	9,491	13,426	1,28	9,486
310	13,472	1,19	9,503	13,456	1,22	9,497
311	13,515	1,127	9,513	13,494	1,159	9,508
312	13,562	0,855	9,52	13,539	0,991	9,516
313	13,639	0,83	9,526	13,601	0,842	9,523
314	13,758	0,825	9,534	13,698	0,828	9,53
315	13,883	0,827	9,547	13,82	0,826	9,541
316	14,009	0,814	9,57	13,946	0,82	9,559
317	14,142	0,773	9,589	14,076	0,793	9,58
318	14,29	0,728	9,614	14,216	0,75	9,602
319	14,453	0,677	9,642	14,371	0,702	9,628
320	14,7	0,626	9,651	14,576	0,652	9,646
321	14,962	0,587	9,668	14,831	0,606	9,659
322	15,244	0,555	9,689	15,103	0,571	9,679
323	15,531	0,519	9,708	15,388	0,537	9,699
324	15,818	0,483	9,723	15,674	0,501	9,715
325	16,1	0,45	9,745	15,959	0,467	9,734
326	16,385	0,415	9,768	16,242	0,433	9,756
327	16,682	0,381	9,788	16,533	0,398	9,778
328	16,987	0,322	9,808	16,834	0,351	9,798
329	17,318	0,238	9,83	17,152	0,28	9,819
330	17,733	0,187	9,855	17,525	0,212	9,843
331	18,218	0,179	9,897	17,975	0,183	9,876
332	18,751	0	9,946	18,484	0,09	9,921
333	19,333	0	9,992	19,042	0	9,969
334	21,366	0	10,105	20,35	0	10,048

335	25,111	0	10,25	23,239	0	10,177
336	28,828	0	10,377	26,97	0	10,313
337	32,102	0	10,439	30,465	0	10,408
338	36,113	0	10,671	34,107	0	10,555
339	38,758	0	10,962	37,435	0	10,817
340	42,431	0	11,542	40,594	0	11,252
341	47,203	0	12,264	44,817	0	11,903
342	53,327	0	13,061	50,265	0	12,662
343	59,244	0	13,867	56,285	0	13,464
344	63,845	0	14,35	61,545	0	14,108
345	61,262	0	14,35	62,554	0	14,35
346	59,376	0	14,288	60,319	0	14,319
347	62,135	0	14,305	60,755	0	14,297
348	66,938	0	14,302	64,537	0	14,303
349	69,585	0	14,169	68,262	0	14,235
350	67,405	0	13,789	68,495	0	13,979
351	63,082	0	13,196	65,244	0	13,493
352	55,193	0	12,521	59,138	0	12,859
353	43,444	0	11,778	49,319	0	12,15
354	30,683	0	11,024	37,064	0	11,401
355	20,632	0,179	10,283	25,657	0,089	10,654
356	16,022	0,502	9,916	18,327	0,341	10,1
357	14,006	0,705	9,738	15,014	0,604	9,827
358	12,389	1,108	9,552	13,197	0,906	9,645
359	11,444	2,05	9,409	11,917	1,579	9,481
360	11,753	2,44	9,327	11,599	2,245	9,368
361	12,68	1,834	9,319	12,216	2,137	9,323
362	13,638	1,043	9,468	13,159	1,438	9,393
363	17,807	0,165	10,122	15,722	0,604	9,795
364	25,429	0	10,836	21,618	0,082	10,479
365	31,475	0	11,198	28,452	0	11,017
366	35,444	0	11,416	33,459	0	11,307
367	37,125	0	11,395	36,284	0	11,405
<b>TOTALES:</b>	<b>4563,673</b>	<b>1720,003</b>	<b>3711,436</b>	<b>4504,567</b>	<b>1707,258</b>	<b>3672,44</b>

**FASE 1.2:**

P.K.	Sup.Desmonte	Sup.Terraplén	Sup.Vegetal	Vol.Desmorte	Vol.Terraplén	Vol.Vegetal
366	35,444	0	11,416	33,459	0	11,307
367	37,125	0	11,395	36,284	0	11,405
368	38,383	0	11,361	37,754	0	11,378
369	37,151	0	11,205	37,767	0	11,283
370	34,378	0	11,027	35,764	0	11,116
371	30,139	0	10,801	32,258	0	10,914
372	32,974	0	10,32	31,556	0	10,561



373	27,323	0	9,773	30,149	0	10,047
374	22,974	0,758	9,372	25,149	0,379	9,572
375	20,084	1,445	9,173	21,529	1,102	9,272
376	17,407	1,795	9,158	18,745	1,62	9,165
377	16,34	2,087	9,144	16,873	1,941	9,151
378	15,381	2,238	9,089	15,861	2,163	9,117
379	14,438	1,989	9,042	14,909	2,113	9,066
380	13,637	1,541	9,023	14,037	1,765	9,033
381	13,037	1,313	9,061	13,337	1,427	9,042
382	12,463	1,318	9,078	12,75	1,316	9,07
383	11,209	1,337	9,098	11,836	1,328	9,088
384	9,761	1,899	9,078	10,485	1,618	9,088
385	8,462	2,817	9,15	9,112	2,358	9,114
386	7,465	3,684	9,205	7,964	3,25	9,178
387	6,687	4,451	9,244	7,076	4,067	9,225
388	5,936	4,631	9,26	6,312	4,541	9,252
389	5,225	4,654	9,253	5,58	4,642	9,256
390	4,555	4,579	9,256	4,89	4,616	9,255
391	4,08	4,766	9,267	4,318	4,673	9,262
392	3,852	4,902	9,271	3,966	4,834	9,269
393	4,169	5,016	9,269	4,011	4,959	9,27
394	4,333	5,098	9,253	4,251	5,057	9,261
395	4,208	5,204	9,244	4,27	5,151	9,249
396	3,904	5,377	9,245	4,056	5,29	9,244
397	3,647	5,62	9,251	3,775	5,499	9,248
398	3,241	5,912	9,266	3,444	5,766	9,258
399	0,294	12,298	9,244	1,767	9,105	9,255
400	0,228	12,877	9,251	0,261	12,588	9,247
401	0,161	13,337	9,261	0,195	13,107	9,256
402	0,116	13,917	9,279	0,139	13,627	9,27
403	0,085	14,556	9,313	0,1	14,237	9,296
404	0,04	15,225	9,346	0,062	14,891	9,329
405	0,013	15,347	9,373	0,026	15,286	9,36
406	0,55	14,998	9,389	0,281	15,172	9,381
407	0,993	14,804	9,396	0,771	14,901	9,392
408	1,143	14,692	9,398	1,068	14,748	9,397
409	1,386	14,834	9,407	1,264	14,763	9,403
410	1,414	15,322	9,413	1,4	15,078	9,41
411	1,325	16,009	9,414	1,369	15,666	9,413
412	1,186	16,877	9,425	1,255	16,443	9,419
413	0,972	17,698	9,442	1,079	17,287	9,433
414	0,741	18,288	9,455	0,857	17,993	9,448
415	0,299	18,86	9,461	0,52	18,574	9,458
416	0	19,17	9,452	0,149	19,015	9,457
417	0	19,02	9,446	0	19,095	9,449
418	0	17,88	9,43	0	18,45	9,438
419	0,227	16,335	9,419	0,114	17,107	9,424
420	1,755	15,669	9,399	0,991	16,002	9,409
421	3,307	15,055	9,371	2,531	15,362	9,385

422	4,707	14,476	9,345	4,007	14,766	9,358
423	5,484	13,861	9,315	5,095	14,169	9,33
424	5,955	12,878	9,267	5,719	13,37	9,291
425	6,007	11,772	9,237	5,981	12,325	9,252
426	5,87	11,608	9,213	5,939	11,69	9,225
427	5,729	11,392	9,2	5,8	11,5	9,207
428	5,664	10,849	9,196	5,696	11,121	9,198
429	5,53	9,869	9,154	5,597	10,359	9,175
430	5,44	8,868	9,118	5,485	9,368	9,136
431	5,418	8,439	9,12	5,429	8,653	9,119
432	5,406	8,111	9,112	5,412	8,275	9,116
433	5,53	7,491	9,069	5,468	7,801	9,091
434	5,931	6,562	9,052	5,731	7,026	9,061
435	6,747	5,633	9,063	6,339	6,097	9,058
436	7,864	4,737	9,041	7,306	5,185	9,052
437	9,067	4,162	9,074	8,466	4,449	9,058
438	10,256	3,874	9,125	9,662	4,018	9,1
439	11,503	3,337	9,194	10,88	3,605	9,16
440	14,718	2,739	9,762	13,11	3,038	9,478
441	18,173	2,363	10,33	16,445	2,551	10,046
442	23,659	1,936	12,129	20,916	2,149	11,229
443	25,587	1,816	12,491	24,623	1,876	12,31
444	27,582	1,761	12,853	26,584	1,788	12,672
445	29,579	1,755	13,218	28,581	1,758	13,036
446	31,416	1,765	13,511	30,497	1,76	13,365
447	32,902	1,661	13,653	32,159	1,713	13,582
448	34,387	1,535	13,794	33,645	1,598	13,723
449	35,88	1,409	13,936	35,133	1,472	13,865
450	37,379	1,293	14,081	36,629	1,351	14,008
451	38,874	1,185	14,226	38,126	1,239	14,153
452	40,348	1,106	14,375	39,611	1,146	14,3
453	41,259	1,089	14,359	40,804	1,098	14,367
454	41,925	1,074	14,299	41,592	1,082	14,329
455	42,545	1,024	14,244	42,235	1,049	14,271
456	43,112	0,968	14,193	42,829	0,996	14,218
457	43,635	0,884	14,139	43,374	0,926	14,166
458	44,115	0,819	14,068	43,875	0,852	14,104
459	44,345	0,733	13,954	44,23	0,776	14,011
460	44,015	0,615	13,748	44,18	0,674	13,851
461	43,587	0,515	13,536	43,801	0,565	13,642
462	43,057	0,441	13,326	43,322	0,478	13,431
463	34,801	0,32	11,644	38,929	0,381	12,485
464	31,355	0,212	11,209	33,078	0,266	11,426
465	30,031	0	10,538	30,693	0,106	10,874
466	28,465	0	9,865	29,248	0	10,202
467	26,486	0	9,172	27,476	0	9,518
468	26,679	0	8,98	26,583	0	9,076
469	27,367	0	8,908	27,023	0	8,944
470	28	0	8,837	27,683	0	8,873

471	28,43	0	8,814	28,215	0	8,826
472	28,666	0	8,842	28,548	0	8,828
473	28,902	0	8,868	28,784	0	8,855
474	29,149	0	8,883	29,025	0	8,875
475	29,374	0	8,897	29,261	0	8,89
476	29,43	0	8,897	29,402	0	8,897
477	29,348	0	8,878	29,389	0	8,887
478	29,207	0	8,857	29,278	0	8,868
479	29,023	0	8,819	29,115	0	8,838
480	28,689	0	8,777	28,856	0	8,798
481	28,264	0	8,734	28,476	0	8,755
482	27,83	0	8,702	28,047	0	8,718
483	27,499	0	8,744	27,665	0	8,723
484	27,057	0	8,723	27,278	0	8,733
485	26,533	0,167	8,69	26,795	0,084	8,706
486	25,897	0,179	8,642	26,215	0,173	8,666
487	25,238	0	8,81	25,567	0,089	8,726
488	25,204	0	8,898	25,221	0	8,854
489	25,788	0	8,886	25,496	0	8,892
490	24,998	0	8,849	25,393	0	8,868
491	23,846	0	8,815	24,422	0	8,832
492	22,945	0	8,783	23,396	0	8,799
493	22,061	0	8,771	22,503	0	8,777
494	21,384	0	8,738	21,723	0	8,755
495	20,773	0	8,673	21,079	0	8,706
496	20,232	0	8,602	20,503	0	8,638
497	19,769	0	8,528	20,001	0	8,565
498	19,373	0	8,453	19,571	0	8,491
499	18,664	0	8,371	19,018	0	8,412
500	17,455	0	8,226	18,059	0	8,299
501	16,444	0,614	7,935	16,95	0,307	8,081
502	15,524	0,769	7,684	15,984	0,691	7,809
503	14,74	1,006	7,642	15,132	0,887	7,663
504	14,121	1,185	7,608	14,43	1,095	7,625
505	13,708	1,321	7,579	13,915	1,253	7,593
506	13,323	1,349	7,545	13,516	1,335	7,562
507	12,899	1,406	7,517	13,111	1,377	7,531
508	12,566	1,44	7,49	12,732	1,423	7,504
509	12,298	1,359	7,442	12,432	1,399	7,466
510	12,048	1,2	7,394	12,173	1,279	7,418
511	11,875	1,012	7,348	11,961	1,106	7,371
512	11,826	0,899	7,387	11,85	0,955	7,367
513	11,847	0,802	7,498	11,837	0,85	7,442
514	12,066	0,52	7,632	11,956	0,661	7,565
515	12,698	0,01	7,716	12,382	0,265	7,674
516	13,705	0	7,763	13,202	0,005	7,739
517	14,725	0	7,787	14,215	0	7,775
518	15,795	0	7,811	15,26	0	7,799
519	16,968	0	7,847	16,382	0	7,829

520	18,609	0	7,974	17,789	0	7,911
521	20,227	0	8,131	19,418	0	8,052
522	20,707	0	8,144	20,467	0	8,137
523	20,284	0	8,156	20,495	0	8,15
524	19,026	0	8,12	19,655	0	8,138
525	16,98	0	7,999	18,003	0	8,059
526	13,649	0,06	7,671	15,315	0,03	7,835
527	10,927	0,887	7,267	12,288	0,474	7,469
528	9,424	1,45	6,958	10,176	1,169	7,113
529	8,263	1,827	6,742	8,843	1,638	6,85
530	7,133	2,334	6,691	7,698	2,08	6,717
531	6,254	2,897	6,721	6,694	2,615	6,706
532	5,884	2,932	6,723	6,069	2,915	6,722
533	5,643	2,951	6,725	5,763	2,942	6,724
534	5,476	3,029	6,73	5,56	2,99	6,728
535	5,303	3,16	6,741	5,39	3,094	6,735
536	5,154	3,291	6,755	5,228	3,225	6,748
537	5,044	3,44	6,768	5,099	3,365	6,761
538	4,958	3,59	6,776	5,001	3,515	6,772
539	4,865	3,684	6,782	4,912	3,637	6,779
540	4,802	3,749	6,786	4,833	3,717	6,784
541	4,754	3,775	6,788	4,778	3,762	6,787
542	4,703	3,845	6,795	4,729	3,81	6,792
543	4,639	3,934	6,8	4,671	3,889	6,797
544	4,593	3,946	6,801	4,616	3,94	6,8
545	4,548	3,972	6,803	4,571	3,959	6,802
546	4,502	4,002	6,805	4,525	3,987	6,804
547	4,456	4,025	6,807	4,479	4,013	6,806
548	4,413	4,06	6,81	4,434	4,042	6,808
549	4,389	4,052	6,812	4,401	4,056	6,811
550	4,39	3,991	6,808	4,39	4,021	6,81
551	4,429	3,938	6,806	4,409	3,964	6,807
552	4,634	3,907	6,805	4,531	3,923	6,805
553	4,85	3,908	6,805	4,742	3,908	6,805
554	5,04	3,906	6,806	4,945	3,907	6,806
555	5,206	3,912	6,805	5,123	3,909	6,805
555,202	5,238	3,911	6,805	1,055	0,79	1,375
556	5,324	3,895	6,803	4,214	3,114	5,43
557	5,422	3,861	6,802	5,373	3,878	6,803
558	5,506	3,814	6,8	5,464	3,837	6,801
559	5,574	3,753	6,797	5,54	3,783	6,798
560	5,646	3,694	6,793	5,61	3,723	6,795
561	5,711	3,63	6,789	5,679	3,662	6,791
562	5,773	3,564	6,786	5,742	3,597	6,787
563	5,834	3,496	6,781	5,804	3,53	6,784
564	5,903	3,433	6,777	5,869	3,464	6,779
565	5,978	3,377	6,772	5,941	3,405	6,774
566	6,061	3,327	6,767	6,02	3,352	6,769
567	6,149	3,28	6,762	6,105	3,303	6,764

568	6,239	3,235	6,757	6,194	3,257	6,76
569	6,335	3,191	6,753	6,287	3,213	6,755
569,614	6,394	3,164	6,751	3,908	1,951	4,146
570	6,435	3,146	6,75	2,476	1,218	2,606
571	6,542	3,097	6,747	6,488	3,122	6,749
572	6,649	3,047	6,743	6,596	3,072	6,745
573	6,755	2,998	6,74	6,702	3,022	6,742
574	6,859	2,947	6,736	6,807	2,972	6,738
575	6,964	2,894	6,733	6,911	2,921	6,734
576	7,068	2,842	6,729	7,016	2,868	6,731
577	7,173	2,759	6,72	7,121	2,801	6,725
578	7,283	2,639	6,711	7,228	2,699	6,715
579	7,421	2,524	6,702	7,352	2,582	6,706
580	7,582	2,421	6,694	7,502	2,473	6,698
581	7,753	2,323	6,685	7,667	2,372	6,689
582	7,922	2,268	6,697	7,837	2,295	6,691
583	8,05	2,211	6,718	7,986	2,239	6,707
584	8,187	2,146	6,73	8,118	2,178	6,724
585	8,379	2,094	6,742	8,283	2,12	6,736
586	8,568	2,045	6,75	8,473	2,07	6,746
587	8,754	1,99	6,755	8,661	2,017	6,752
588	8,942	1,936	6,76	8,848	1,963	6,757
589	9,135	1,9	6,767	9,038	1,918	6,764
590	9,324	1,876	6,775	9,229	1,888	6,771
591	9,494	1,847	6,781	9,409	1,862	6,778
592	9,648	1,817	6,79	9,571	1,832	6,785
593	9,785	1,785	6,798	9,717	1,801	6,794
594	9,909	1,751	6,804	9,847	1,768	6,801
595	10,019	1,721	6,817	9,964	1,736	6,81
596	10,116	1,691	6,836	10,067	1,706	6,826
597	10,199	1,657	6,853	10,157	1,674	6,844
598	10,271	1,614	6,87	10,235	1,635	6,862
599	10,335	1,574	6,884	10,303	1,594	6,877
600	10,406	1,535	6,895	10,371	1,554	6,889
601	10,486	1,488	6,906	10,446	1,511	6,901
602	10,572	1,426	6,929	10,529	1,457	6,918
603	10,676	1,36	6,959	10,624	1,393	6,944
604	10,781	1,308	6,987	10,729	1,334	6,973
605	10,892	1,264	7,009	10,836	1,286	6,998
606	11,024	1,224	7,025	10,958	1,244	7,017
607	11,167	1,184	7,039	11,095	1,204	7,032
608	11,295	1,131	7,052	11,231	1,157	7,046
609	11,45	1,107	7,069	11,373	1,119	7,06
610	11,624	1,09	7,073	11,537	1,099	7,071
611	11,842	1,073	7,076	11,733	1,081	7,075
612	12,06	1,044	7,091	11,951	1,058	7,083
613	12,267	1,019	7,125	12,163	1,032	7,108
614	12,457	0,969	7,155	12,362	0,994	7,14
615	12,634	0,909	7,185	12,546	0,939	7,17

616	12,803	0,644	7,209	12,719	0,777	7,197
617	12,968	0,595	7,223	12,886	0,62	7,216
618	13,129	0,558	7,22	13,049	0,577	7,222
619	13,241	0,561	7,21	13,185	0,559	7,215
620	13,302	0,575	7,187	13,271	0,568	7,198
621	13,282	0,596	7,178	13,292	0,585	7,182
622	13,204	0,618	7,182	13,243	0,607	7,18
623	13,107	0,642	7,186	13,155	0,63	7,184
624	13,026	0,67	7,166	13,067	0,656	7,176
625	12,976	0,908	7,145	13,001	0,789	7,155
626	12,963	0,937	7,121	12,97	0,923	7,133
627	12,969	0,946	7,105	12,966	0,942	7,113
628	12,988	0,96	7,091	12,979	0,953	7,098
629	13,014	0,979	7,078	13,001	0,97	7,085
630	13,046	0,996	7,058	13,03	0,988	7,068
631	13,091	1	7,029	13,068	0,998	7,043
632	13,122	1,034	7,021	13,106	1,017	7,025
633	13,083	1,012	7,021	13,103	1,023	7,021
634	12,988	1,053	7,026	13,036	1,033	7,024
635	12,832	1,075	7,034	12,91	1,064	7,03
636	12,622	1,059	7,026	12,727	1,067	7,03
637	12,407	1,056	7,014	12,514	1,058	7,02
638	12,195	1,072	6,991	12,301	1,064	7,003
639	11,991	1,099	6,99	12,093	1,086	6,99
640	11,799	1,116	6,977	11,895	1,108	6,984
641	11,645	1,159	6,959	11,722	1,137	6,968
642	11,521	1,226	6,952	11,583	1,193	6,956
643	11,404	1,286	6,952	11,462	1,256	6,952
644	11,299	1,327	6,964	11,351	1,306	6,958
645	11,21	1,336	6,977	11,254	1,332	6,971
646	11,144	1,314	6,99	11,177	1,325	6,984
647	11,142	1,281	7,002	11,143	1,297	6,996
648	11,216	1,25	7,016	11,179	1,265	7,009
649	11,317	1,229	7,028	11,267	1,239	7,022
650	11,393	1,208	7,035	11,355	1,218	7,032
651	11,391	1,185	7,044	11,392	1,196	7,04
652	11,335	1,197	7,058	11,363	1,191	7,051
653	11,241	1,236	7,071	11,288	1,217	7,065
654	11,136	1,266	7,066	11,189	1,251	7,069
655	11,062	1,32	7,051	11,099	1,293	7,059
656	11,007	1,325	7,051	11,035	1,322	7,051
657	10,993	1,303	7,055	11	1,314	7,053
658	11,014	1,263	7,062	11,003	1,283	7,059
659	11,078	1,008	7,074	11,046	1,136	7,068
660	11,189	0,967	7,091	11,133	0,988	7,083
661	11,349	0,932	7,122	11,269	0,95	7,107
662	11,612	0,927	7,155	11,48	0,93	7,139
663	11,952	0,902	7,178	11,782	0,914	7,167
664	12,356	0,787	7,196	12,154	0,844	7,187

665	12,95	0,724	7,274	12,653	0,756	7,235
666	13,808	0,659	7,379	13,379	0,692	7,326
667	14,967	0,59	7,532	14,388	0,624	7,455
668	16,462	0,511	7,708	15,715	0,551	7,62
669	18,178	0,367	7,944	17,32	0,439	7,826
670	19,93	0,206	8,189	19,054	0,287	8,067
671	22,102	0	8,373	21,016	0,103	8,281
672	24,814	0	8,702	23,458	0	8,537
673	27,804	0	8,967	26,309	0	8,834
674	30,677	0	9,205	29,241	0	9,086
675	33,269	0	9,426	31,973	0	9,316
676	34,695	0	9,488	33,982	0	9,457
677	33,049	0	9,445	33,872	0	9,467
678	30,676	0	9,32	31,862	0	9,383
679	29,099	0	9,187	29,887	0	9,253
680	28,92	0	9,215	29,01	0	9,201
681	28,97	0	9,488	28,945	0	9,352
682	28,673	0	9,684	28,821	0	9,586
683	28,5	0	9,713	28,586	0	9,698
684	28,853	0	9,65	28,676	0	9,682
685	29,483	0	9,54	29,168	0	9,595
686	30,105	0	9,535	29,794	0	9,537
687	31,681	0	9,635	30,893	0	9,585
688	32,534	0	9,651	32,108	0	9,643
689	33,33	0	9,723	32,932	0	9,687
690	34,318	0	9,832	33,824	0	9,777
691	35,35	0	9,925	34,834	0	9,878
692	36,861	0	10,053	36,105	0	9,989
693	39,058	0	10,131	37,959	0	10,092
694	41,354	0	10,058	40,206	0	10,094
695	42,668	0	9,908	42,011	0	9,983
696	41,376	0	9,889	42,022	0	9,898
697	38,826	0	9,863	40,101	0	9,876
698	33,665	0	9,593	36,245	0	9,728
699	28,286	0	9,038	30,975	0	9,316
700	24,671	0	8,509	26,478	0	8,773
701	21,926	0	8,145	23,298	0	8,327
702	19,474	0	7,937	20,7	0	8,041
703	17,496	0	7,817	18,485	0	7,877
704	16,075	0,267	7,711	16,786	0,133	7,764
705	15,221	0,402	7,578	15,648	0,335	7,644
706	15,151	0,31	7,6	15,186	0,356	7,589
707	15,735	0,175	7,935	15,443	0,242	7,768
708	17,31	0	8,305	16,523	0,087	8,12
709	19,614	0	8,548	18,462	0	8,426
710	21,856	0	8,709	20,735	0	8,628
711	22,956	0	8,934	22,406	0	8,821
712	22,321	0	8,975	22,639	0	8,954
713	21,937	0	8,952	22,129	0	8,963

714	22,576	0	8,79	22,257	0	8,871
715	24,863	0	8,638	23,719	0	8,714
716	26,791	0	8,63	25,827	0	8,634
716,787	26,19	0	8,791	20,848	0	6,855
717	25,267	0	8,799	5,48	0	1,873
718	20,784	0	8,239	23,025	0	8,519
719	16,95	0,5	7,881	18,867	0,25	8,06
720	13,991	0,655	7,707	15,47	0,577	7,794
721	7,394	0,073	5,16	10,692	0,364	6,434
<b>TOTALES:</b>	<b>5619,615</b>	<b>948,878</b>	<b>3026,393</b>	<b>5594,131</b>	<b>941,761</b>	<b>3007,078</b>



## MOVIMIENTO DE TIERRAS DEL EJE 8:

### FASE 2:

P.K.	Sup.Desmonte	Sup.Terraplén	Sup.Vegetal	Vol.Desmonte	Vol.Terraplén	Vol.Vegetal
10	14,161	7,359	13,892			
11	13,182	6,726	12,83	13,672	7,042	13,361
12	12,102	6,104	11,767	12,642	6,415	12,299
13	10,997	5,457	10,697	11,549	5,781	11,232
14	10,013	4,742	9,629	10,505	5,099	10,163
15	9,517	4,402	9,087	9,765	4,572	9,358
16	9,392	4,478	9,086	9,454	4,44	9,087
17	9,146	4,566	9,09	9,269	4,522	9,088
18	9,005	4,63	9,093	9,075	4,598	9,091
19	8,953	4,689	9,096	8,979	4,66	9,094
20	8,938	4,727	9,099	8,945	4,708	9,097
21	8,901	4,751	9,1	8,919	4,739	9,099
22	8,832	4,795	9,102	8,866	4,773	9,101
23	8,722	4,843	9,105	8,777	4,819	9,103
24	8,614	4,889	9,107	8,668	4,866	9,106
25	8,55	4,926	9,108	8,582	4,908	9,107
26	8,515	4,925	9,107	8,532	4,926	9,107
27	8,497	4,924	9,108	8,506	4,925	9,107
28	8,491	4,901	9,107	8,494	4,912	9,107
29	8,491	4,899	9,107	8,491	4,9	9,107
30	8,508	4,923	9,109	8,499	4,911	9,108
31	8,527	4,939	9,109	8,517	4,931	9,109
32	8,543	4,937	9,109	8,535	4,938	9,109
33	8,548	4,935	9,108	8,545	4,936	9,109
34	8,555	4,919	9,108	8,551	4,927	9,108
35	8,508	4,951	9,11	8,531	4,935	9,109
36	8,391	5,042	9,115	8,449	4,997	9,112
37	8,267	5,11	9,118	8,329	5,076	9,117
38	8,077	5,198	9,122	8,172	5,154	9,12
39	8,036	5,217	9,123	8,056	5,207	9,122
40	8,041	5,212	9,122	8,038	5,215	9,123
41	7,965	5,253	9,125	8,003	5,233	9,124
42	7,866	5,297	9,127	7,916	5,275	9,126
43	7,853	5,291	9,126	7,86	5,294	9,126
44	7,865	5,274	9,125	7,859	5,282	9,125
45	7,887	5,289	9,126	7,876	5,282	9,125
46	7,847	5,319	9,127	7,867	5,304	9,127
47	7,772	5,336	9,128	7,809	5,328	9,128
48	7,673	5,365	9,129	7,722	5,35	9,129
49	7,566	5,426	9,133	7,619	5,395	9,131
50	7,461	5,522	9,138	7,514	5,474	9,135
51	7,36	5,63	9,143	7,41	5,576	9,141
52	7,248	5,728	9,149	7,304	5,679	9,146
53	7,124	5,814	9,153	7,186	5,771	9,151

54	6,993	5,897	9,157	7,059	5,856	9,155
55	6,85	5,968	9,161	6,921	5,932	9,159
56	6,708	6,047	9,164	6,779	6,007	9,163
57	6,566	6,123	9,167	6,637	6,085	9,165
58	6,431	6,198	9,171	6,499	6,16	9,169
59	6,293	6,253	9,174	6,362	6,225	9,172
60	6,158	6,29	9,176	6,226	6,272	9,175
61	6,038	6,308	9,175	6,098	6,299	9,176
62	5,962	6,331	9,176	6	6,32	9,176
63	5,933	6,372	9,178	5,947	6,351	9,177
64	5,942	6,386	9,177	5,938	6,379	9,177
65	6,059	6,342	9,176	6,001	6,364	9,177
66	6,104	6,319	9,176	6,082	6,33	9,176
67	6,155	6,292	9,175	6,13	6,305	9,175
68	6,317	6,225	9,172	6,236	6,259	9,174
69	6,418	6,183	9,17	6,368	6,204	9,171
70	6,488	6,146	9,168	6,453	6,164	9,169
71	6,535	6,083	9,165	6,512	6,114	9,167
72	6,52	6,086	9,164	6,528	6,084	9,165
73	6,428	6,138	9,167	6,474	6,112	9,166
74	6,31	6,195	9,168	6,369	6,166	9,168
75	6,187	6,22	9,169	6,248	6,208	9,169
76	6,087	6,243	9,171	6,137	6,232	9,17
77	6,012	6,277	9,172	6,049	6,26	9,172
78	5,97	6,315	9,174	5,991	6,296	9,173
79	5,955	6,376	9,176	5,962	6,345	9,175
80	5,975	6,4	9,178	5,965	6,388	9,177
81	6,048	6,373	9,178	6,011	6,386	9,178
82	6,255	6,318	9,175	6,151	6,346	9,176
83	6,587	6,23	9,172	6,421	6,274	9,173
84	6,971	6,073	9,166	6,779	6,152	9,169
85	7,396	5,965	9,16	7,183	6,019	9,163
86	7,872	5,894	9,156	7,634	5,929	9,158
87	9,475	4,199	9,156	8,673	5,046	9,156
88	11,169	2,539	9,155	10,322	3,369	9,156
89	12,947	0,928	9,154	12,058	1,733	9,155
90	15,582	0,356	9,221	14,264	0,642	9,188
91	20,454	0,294	9,199	18,018	0,325	9,21
92	26,76	0,386	9,344	23,607	0,34	9,271
93	32,937	0,263	9,716	29,849	0,325	9,53
94	38,838	0,253	10,016	35,888	0,258	9,866
95	43,622	0,244	10,147	41,23	0,248	10,081
96	45,393	0,235	10,142	44,508	0,239	10,145
96,284	45,806	0,232	10,152	12,95	0,066	2,882
97	46,45	0,223	10,137	33,028	0,163	7,263
98	46,49	0,188	10,032	46,47	0,205	10,084
99	45,672	0,085	9,81	46,081	0,136	9,921
100	44,735	0,036	9,64	45,203	0,06	9,725
101	43,936	0	9,915	44,336	0,018	9,778

102	43,134	0,147	9,994	43,535	0,074	9,955
103	41,289	0,197	10,108	42,211	0,172	10,051
104	38,12	0,248	9,977	39,704	0,222	10,043
105	34,682	0,326	9,847	36,401	0,287	9,912
106	31,294	0,581	9,724	32,988	0,453	9,785
107	27,644	0,735	9,588	29,469	0,658	9,656
108	23,785	0,891	9,503	25,715	0,813	9,545
109	20,383	1,128	9,451	22,084	1,009	9,477
110	17,025	1,545	9,382	18,704	1,336	9,416
111	14,027	2,237	9,315	15,526	1,891	9,348
112	11,436	3,136	9,341	12,731	2,686	9,328
113	9,571	2,99	9,362	10,503	3,063	9,352
114	9,567	2,523	9,578	9,569	2,757	9,47
115	9,145	2,209	9,32	9,356	2,366	9,449
116	8,462	1,881	8,299	8,804	2,045	8,81
117	8,502	1,396	7,228	8,482	1,638	7,764
118	9,182	0,811	6,177	8,842	1,103	6,703
119	10,273	0,697	5,173	9,727	0,754	5,675
120	11,127	0,397	3,949	10,7	0,547	4,561
121	10,319	0,154	2,897	10,723	0,275	3,423
121,105	10,159	0,001	2,63	1,075	0,008	0,29
<b>TOTALES:</b>	<b>1524,422</b>	<b>467,217</b>	<b>1042,702</b>	<b>1457,341</b>	<b>463,228</b>	<b>1021,823</b>

## MOVIMIENTO DE TIERRAS DEL EJE 9:

### FASE 2:

P.K.	Sup.Desmorte	Sup.Terraplén	Sup.Vegetal	Vol.Desmorte	Vol.Terraplén	Vol.Vegetal
9	9,613	11,494	14,074			
10	9,717	9,987	13,068	9,665	10,74	13,571
11	9,812	8,478	12,063	9,764	9,233	12,566
12	9,899	6,919	11,056	9,856	7,698	11,56
13	10,062	5,373	10,046	9,981	6,146	10,551
14	10,319	3,952	9,059	10,19	4,663	9,553
15	10,471	3,849	9,054	10,395	3,9	9,056
16	10,583	3,785	9,05	10,527	3,817	9,052
17	10,733	3,723	9,049	10,658	3,754	9,05
18	10,817	3,685	9,054	10,775	3,704	9,052
19	10,874	3,632	9,063	10,845	3,658	9,059
20	10,985	3,599	9,073	10,929	3,615	9,068
21	11,131	3,55	9,082	11,058	3,575	9,077
22	11,305	3,476	9,092	11,218	3,513	9,087
23	11,41	3,428	9,1	11,357	3,452	9,096
24	11,541	3,371	9,109	11,475	3,4	9,104
25	11,666	3,317	9,112	11,604	3,344	9,11
26	11,742	3,276	9,116	11,704	3,296	9,114
27	11,785	3,235	9,125	11,764	3,255	9,121
28	11,856	3,197	9,132	11,821	3,216	9,128
29	11,93	3,172	9,136	11,893	3,184	9,134
30	12,028	3,153	9,142	11,979	3,162	9,139
31	12,125	3,127	9,141	12,076	3,14	9,141
32	12,21	3,101	9,141	12,167	3,114	9,141
33	12,254	3,06	9,143	12,232	3,081	9,142
34	12,283	3,036	9,143	12,269	3,048	9,143
35	12,292	3,008	9,138	12,287	3,022	9,141
36	12,27	2,994	9,139	12,281	3,001	9,138
37	12,257	2,99	9,145	12,263	2,992	9,142
38	12,302	2,983	9,157	12,279	2,986	9,151
39	12,413	2,971	9,165	12,357	2,977	9,161
40	12,527	2,923	9,172	12,47	2,947	9,169
41	12,624	2,892	9,165	12,575	2,908	9,169
42	12,722	2,892	9,166	12,673	2,892	9,166
43	12,775	2,859	9,17	12,749	2,875	9,168
44	12,776	2,798	9,164	12,775	2,828	9,167
45	12,746	2,776	9,167	12,761	2,787	9,165
46	12,712	2,776	9,174	12,729	2,776	9,17
47	12,7	2,791	9,178	12,706	2,783	9,176
48	12,708	2,823	9,182	12,704	2,807	9,18
49	12,713	2,839	9,189	12,71	2,831	9,186
50	12,724	2,837	9,19	12,718	2,838	9,189
51	12,729	2,822	9,188	12,726	2,83	9,189
52	12,75	2,839	9,189	12,74	2,83	9,188

53	12,782	2,862	9,194	12,766	2,85	9,192
54	12,815	2,859	9,198	12,798	2,861	9,196
55	12,848	2,841	9,2	12,831	2,85	9,199
56	12,866	2,818	9,197	12,857	2,83	9,199
57	12,875	2,811	9,195	12,87	2,815	9,196
58	12,892	2,826	9,192	12,884	2,819	9,193
59	12,908	2,837	9,188	12,9	2,832	9,19
60	12,899	2,83	9,179	12,904	2,833	9,184
61	12,884	2,841	9,174	12,892	2,835	9,176
62	12,859	2,865	9,171	12,872	2,853	9,172
63	12,821	2,875	9,167	12,84	2,87	9,169
64	12,764	2,877	9,166	12,793	2,876	9,166
65	12,704	2,879	9,167	12,734	2,878	9,167
66	12,649	2,881	9,172	12,676	2,88	9,169
67	12,593	2,864	9,178	12,621	2,873	9,175
68	12,545	2,828	9,186	12,569	2,846	9,182
69	12,515	2,828	9,187	12,53	2,828	9,187
70	12,484	2,83	9,19	12,5	2,829	9,189
71	12,459	2,837	9,194	12,472	2,834	9,192
72	12,437	2,848	9,191	12,448	2,843	9,193
73	12,422	2,893	9,19	12,43	2,871	9,191
74	12,399	2,934	9,195	12,41	2,914	9,192
75	12,373	2,968	9,195	12,386	2,951	9,195
76	12,345	3,003	9,192	12,359	2,985	9,194
77	12,304	3,03	9,193	12,324	3,017	9,193
78	12,261	3,055	9,195	12,283	3,042	9,194
79	12,221	3,066	9,2	12,241	3,06	9,197
80	12,205	3,081	9,202	12,213	3,074	9,201
81	12,206	3,101	9,2	12,205	3,091	9,201
82	12,205	3,113	9,201	12,206	3,107	9,201
83	12,225	3,109	9,205	12,215	3,111	9,203
84	12,299	3,065	9,213	12,262	3,087	9,209
85	12,444	3,008	9,216	12,371	3,037	9,215
86	12,523	2,963	9,216	12,483	2,986	9,216
87	12,567	2,944	9,216	12,545	2,953	9,216
88	12,598	2,918	9,219	12,582	2,931	9,217
<b>TOTALES:</b>	<b>968,087</b>	<b>270,976</b>	<b>747,395</b>	<b>956,977</b>	<b>263,77</b>	<b>735,751</b>

## MOVIMIENTO DE TIERRAS DEL EJE 10:

### FASE 2:

P.K.	Sup.Desmonte	Sup.Terraplén	Sup.Vegetal	Vol.Desmonte	Vol.Terraplén	Vol.Vegetal
9	3,845	10,229	10,07			
10	3,504	9,254	9,073	3,674	9,741	9,572
11	3,174	8,246	8,08	3,339	8,75	8,577
12	2,854	7,184	7,086	3,014	7,715	7,583
13	2,547	6,078	6,093	2,701	6,631	6,589
14	2,249	5,08	5,116	2,398	5,579	5,604
15	2,195	5,18	5,12	2,222	5,13	5,118
16	2,141	5,283	5,124	2,168	5,232	5,122
17	2,087	5,388	5,129	2,114	5,336	5,127
18	2,034	5,494	5,134	2,06	5,441	5,132
19	1,981	5,59	5,138	2,007	5,542	5,136
20	1,938	5,674	5,143	1,959	5,632	5,14
21	1,905	5,753	5,146	1,921	5,713	5,144
22	1,874	5,818	5,15	1,889	5,785	5,148
23	1,842	5,88	5,153	1,858	5,849	5,151
24	1,81	5,943	5,156	1,826	5,912	5,154
25	1,778	6,005	5,158	1,794	5,974	5,157
26	1,745	6,067	5,161	1,761	6,036	5,16
27	1,713	6,129	5,164	1,729	6,098	5,163
28	1,681	6,191	5,166	1,697	6,16	5,165
29	1,65	6,25	5,169	1,666	6,22	5,167
30	1,618	6,311	5,171	1,634	6,281	5,17
31	1,587	6,371	5,174	1,602	6,341	5,172
32	1,555	6,43	5,176	1,571	6,401	5,175
33	1,523	6,489	5,179	1,539	6,46	5,177
34	1,492	6,369	5,165	1,508	6,429	5,172
35	3,943	0,433	4,755	2,718	3,401	4,96
36	3,866	0,44	4,757	3,905	0,437	4,756
37	3,791	0,448	4,761	3,829	0,444	4,759
38	3,712	0,456	4,764	3,751	0,452	4,762
39	3,633	0,464	4,767	3,672	0,46	4,765
40	3,553	0,473	4,77	3,593	0,469	4,769
41	3,471	0,482	4,774	3,512	0,478	4,772
42	3,388	0,491	4,777	3,429	0,487	4,775
43	3,301	0,5	4,78	3,344	0,495	4,779
44	3,214	0,508	4,783	3,258	0,504	4,782
45	3,125	0,517	4,787	3,17	0,513	4,785
46	3,035	0,525	4,79	3,08	0,521	4,788
47	2,944	0,534	4,793	2,989	0,53	4,791
48	2,852	0,544	4,796	2,898	0,539	4,795
49	2,858	0,549	4,798	2,855	0,546	4,797
50	2,933	0,541	4,796	2,896	0,545	4,797
51	3,008	0,534	4,793	2,971	0,538	4,794

52	3,083	0,526	4,79	3,045	0,53	4,792
53	3,157	0,519	4,787	3,12	0,522	4,789
54	3,232	0,511	4,785	3,195	0,515	4,786
55	3,307	0,504	4,782	3,269	0,508	4,783
56	3,382	0,497	4,779	3,344	0,5	4,781
57	3,456	0,489	4,777	3,419	0,493	4,778
58	3,531	0,482	4,774	3,494	0,486	4,775
59	3,606	0,475	4,771	3,568	0,478	4,772
60	3,68	0,468	4,768	3,643	0,471	4,77
61	3,755	0,46	4,766	3,718	0,464	4,767
62	3,83	0,453	4,763	3,793	0,457	4,764
63	3,905	0,446	4,76	3,867	0,45	4,761
64	3,979	0,439	4,757	3,942	0,443	4,759
65	4,054	0,432	4,755	4,017	0,436	4,756
66	4,129	0,426	4,752	4,091	0,429	4,753
67	4,204	0,419	4,749	4,166	0,422	4,75
68	4,278	0,412	4,746	4,241	0,415	4,748
69	4,353	0,405	4,744	4,316	0,408	4,745
70	4,428	0,398	4,741	4,39	0,402	4,742
71	4,503	0,392	4,738	4,465	0,395	4,74
72	4,577	0,385	4,735	4,54	0,388	4,737
73	4,652	0,379	4,733	4,615	0,382	4,734
74	4,727	0,372	4,73	4,689	0,375	4,731
75	4,801	0,366	4,727	4,764	0,369	4,729
76	4,878	0,359	4,724	4,84	0,362	4,726
77	4,953	0,353	4,722	4,916	0,356	4,723
78	5,028	0,346	4,719	4,99	0,35	4,72
79	5,103	0,34	4,716	5,065	0,343	4,718
80	5,177	0,334	4,714	5,14	0,337	4,715
81	5,252	0,328	4,711	5,215	0,331	4,712
82	5,327	0,322	4,708	5,29	0,325	4,709
83	5,402	0,315	4,705	5,364	0,318	4,707
84	2,075	5,427	5,117	3,738	2,871	4,911
85	2,105	5,369	5,114	2,09	5,398	5,115
86	2,135	5,311	5,111	2,12	5,34	5,113
87	2,165	5,254	5,109	2,15	5,283	5,11
88	2,195	5,197	5,106	2,18	5,225	5,107
89	2,226	5,14	5,103	2,211	5,168	5,104
90	2,256	5,082	5,1	2,241	5,111	5,102
91	2,286	5,025	5,098	2,271	5,054	5,099
92	2,317	4,968	5,095	2,302	4,997	5,096
93	2,347	4,912	5,092	2,332	4,94	5,093
94	2,378	4,855	5,089	2,363	4,883	5,091
95	2,408	4,798	5,087	2,393	4,826	5,088
96	2,439	4,742	5,084	2,424	4,77	5,085
97	2,613	5,185	5,63	2,526	4,963	5,357
98	2,955	6,58	6,845	2,784	5,882	6,237
99	3,304	7,941	8,061	3,13	7,26	7,453
100	3,66	9,269	9,277	3,482	8,605	8,669

101	3,873	9,902	9,92	3,767	9,585	9,599
<b>TOTALES:</b>	<b>292,415</b>	<b>291,434</b>	<b>487,801</b>	<b>288,556</b>	<b>281,368</b>	<b>477,802</b>



## MOVIMIENTO DE TIERRAS DEL EJE 11:

### FASE2:

P.K.	Sup.Desmonte	Sup.Terraplén	Sup.Vegetal	Vol.Desmonte	Vol.Terraplén	Vol.Vegetal
9	51,082	0,343	14,719			
10	50,93	0,291	13,895	51,006	0,317	14,307
11	50,846	0,243	13,097	50,888	0,267	13,496
12	49,48	0,195	12,374	50,163	0,219	12,736
13	44,805	0,18	11,645	47,143	0,187	12,01
14	39,237	0	10,857	42,021	0,09	11,251
15	36,37	0	10,802	37,804	0	10,829
16	35,009	0	10,748	35,69	0	10,775
17	34,485	0	10,697	34,747	0	10,722
18	34,617	0	10,727	34,551	0	10,712
19	35,184	0	10,756	34,901	0	10,742
20	36,202	0	10,805	35,693	0	10,78
21	37,616	0	10,883	36,909	0	10,844
22	38,866	0	10,942	38,241	0	10,913
23	39,803	0	10,938	39,335	0	10,94
24	40,164	0	10,903	39,984	0	10,92
25	40,631	0	10,867	40,397	0	10,885
26	40,875	0	10,818	40,753	0	10,843
27	40,859	0	10,781	40,867	0	10,8
28	39,849	0	10,738	40,354	0	10,759
29	38,569	0	10,695	39,209	0	10,716
30	37,147	0	10,642	37,858	0	10,669
31	35,528	0	10,548	36,338	0	10,595
32	34,427	0	10,455	34,977	0	10,501
33	34,403	0	10,407	34,415	0	10,431
34	34,273	0	10,413	34,338	0	10,41
35	34,165	0,178	10,4	34,219	0,089	10,407
36	33,82	0	10,381	33,992	0,089	10,39
37	33,122	0	10,34	33,471	0	10,36
38	32,546	0	10,308	32,834	0	10,324
39	32,238	0	10,258	32,392	0	10,283
40	31,81	0	10,233	32,024	0	10,245
41	31,351	0	10,209	31,58	0	10,221
42	30,883	0,177	10,147	31,117	0,089	10,178
43	30,754	0,183	10,077	30,819	0,18	10,112
44	30,436	0,202	10,044	30,595	0,193	10,061
45	30,584	0,217	10,041	30,51	0,21	10,043
46	31,087	0,225	10,088	30,835	0,221	10,065
47	31,06	0,216	10,165	31,073	0,22	10,127
48	30,77	0,212	10,24	30,915	0,214	10,202
49	30,34	0,229	10,273	30,555	0,221	10,257
50	29,889	0,247	10,295	30,114	0,238	10,284
51	29,435	0,256	10,284	29,662	0,252	10,289
52	28,858	0,242	10,264	29,147	0,249	10,274

53	28,204	0,224	10,29	28,531	0,233	10,277
54	27,653	0,229	10,347	27,929	0,227	10,318
55	27,656	0,241	10,386	27,655	0,235	10,367
56	27,777	0,271	10,421	27,717	0,256	10,404
57	27,942	0,305	10,457	27,86	0,288	10,439
58	27,991	0,341	10,476	27,967	0,323	10,466
59	27,905	0,382	10,469	27,948	0,362	10,472
60	27,772	0,428	10,459	27,838	0,405	10,464
61	27,524	0,474	10,433	27,648	0,451	10,446
62	27,318	0,516	10,397	27,421	0,495	10,415
63	27,096	0,55	10,347	27,207	0,533	10,372
64	26,587	0,578	10,313	26,841	0,564	10,33
65	25,492	0,615	10,44	26,039	0,597	10,377
66	23,903	0,63	10,563	24,697	0,622	10,502
67	22,101	0,631	10,562	23,002	0,63	10,562
68	20,063	0,705	10,561	21,082	0,668	10,561
69	18,276	0,77	10,558	19,17	0,737	10,56
70	17,38	0,897	10,524	17,828	0,833	10,541
71	16,495	1,055	10,499	16,938	0,976	10,512
72	15,441	1,221	10,411	15,968	1,138	10,455
73	14,795	1,396	10,323	15,118	1,308	10,367
74	14,439	1,529	10,233	14,617	1,462	10,278
75	14,14	1,632	10,167	14,29	1,58	10,2
76	13,851	1,715	10,18	13,996	1,673	10,173
77	13,557	1,807	10,18	13,704	1,761	10,18
78	13,259	1,93	10,127	13,408	1,868	10,153
79	12,886	2,209	9,988	13,073	2,069	10,057
80	12,601	2,912	9,856	12,744	2,561	9,922
81	12,34	3,125	9,58	12,471	3,019	9,718
82	12,077	3,182	9,306	12,209	3,154	9,443
83	11,807	3,204	9,161	11,942	3,193	9,234
84	11,528	3,179	9,009	11,667	3,191	9,085
85	11,228	3,321	9,008	11,378	3,25	9,009
86	10,898	3,445	9,009	11,063	3,383	9,009
87	10,577	3,536	9,016	10,737	3,491	9,013
88	10,27	3,592	9,015	10,424	3,564	9,016
89	9,981	3,66	9,014	10,125	3,626	9,015
90	9,718	3,816	9,024	9,849	3,738	9,019
91	9,484	4,583	9,406	9,601	4,199	9,215
92	9,28	5,427	9,782	9,382	5,005	9,594
93	9,124	6,006	10,152	9,202	5,717	9,967
94	8,983	6,801	10,548	9,054	6,403	10,35
95	8,85	7,464	10,941	8,917	7,132	10,744
96	8,846	7,879	11,32	8,848	7,672	11,131
97	9,307	8,145	11,685	9,076	8,012	11,502
98	10,054	8,353	12,049	9,681	8,249	11,867
99	10,971	8,329	12,412	10,513	8,341	12,231
100	12,853	5,693	12,79	11,912	7,011	12,601
101	16,115	2,836	13,381	14,484	4,265	13,085

102	23,424	1,226	14,011	19,77	2,031	13,696
103	33,008	0	14,869	28,216	0,613	14,44
104	40,289	0	15,565	36,648	0	15,217
<b>TOTALES:</b>	<b>2515,521</b>	<b>136,831</b>	<b>1025,219</b>	<b>2469,841</b>	<b>136,659</b>	<b>1010,079</b>

## MOVIMIENTO DE TIERRAS DEL EJE 12:

### FASE2:

P.K.	Sup.Desmorte	Sup.Terraplén	Sup.Vegetal	Vol.Desmorte	Vol.Terraplén	Vol.Vegetal
8	16,106	9,73	16,88			
9	12,71	10,591	16,422	14,408	10,16	16,651
10	11,475	10,485	15,87	12,092	10,538	16,146
11	11,677	10,009	15,139	11,576	10,247	15,504
12	11,845	9,286	14,373	11,761	9,647	14,756
13	11,9	8,701	13,608	11,873	8,993	13,99
14	11,841	8,302	12,532	11,871	8,501	13,07
15	12,285	8,121	12,194	12,063	8,211	12,363
16	12,789	6,671	12,088	12,537	7,396	12,141
17	14,203	5,648	11,909	13,496	6,159	11,998
18	16,04	5,491	11,597	15,122	5,569	11,753
19	16,611	5,909	11,285	16,325	5,7	11,441
20	14,891	6,706	10,702	15,751	6,307	10,994
20,052	14,889	6,752	10,72	0,774	0,35	0,557
21	14,453	7,28	10,101	13,908	6,651	9,869
22	14,656	4,792	10,054	14,555	6,036	10,077
23	16,976	3,411	9,684	15,816	4,102	9,869
24	18,693	3,019	9,365	17,835	3,215	9,525
25	16,622	3,159	9,068	17,658	3,089	9,217
26	14,741	4,109	8,86	15,682	3,634	8,964
27	14,147	4,255	8,686	14,444	4,182	8,773
28	14,522	3,984	8,549	14,334	4,12	8,618
29	14,675	3,854	8,445	14,599	3,919	8,497
30	14,854	4,639	8,383	14,765	4,247	8,414
31	13,414	5,294	7,908	14,134	4,967	8,146
32	13,038	5,46	7,906	13,226	5,377	7,907
32,325	12,936	5,446	7,877	4,221	1,772	2,565
33	12,737	5,418	7,817	8,665	3,667	5,297
34	13,339	5,158	8,488	13,038	5,288	8,152
35	13,02	5,195	8,515	13,18	5,177	8,501
36	12,62	5,313	8,542	12,82	5,254	8,528
37	12,961	5,415	8,569	12,791	5,364	8,555
38	13,159	5,525	8,596	13,06	5,47	8,582
39	13,165	5,728	8,623	13,162	5,627	8,609
40	13,115	5,39	8,016	13,14	5,559	8,319
41	13	5,455	8,064	13,057	5,423	8,04
42	12,997	5,519	8,109	12,998	5,487	8,087
43	13,089	5,549	8,136	13,043	5,534	8,123
44	13,248	5,564	8,163	13,169	5,557	8,149
45	13,317	5,6	8,185	13,282	5,582	8,174
46	13,351	5,593	8,203	13,334	5,596	8,194
47	13,455	5,319	8,455	13,403	5,456	8,329
47,498	13,66	5,002	8,478	6,752	2,57	4,216
48	15,269	4,782	8,894	7,261	2,456	4,36

49	16,101	4,21	8,944	15,685	4,496	8,919
50	15,803	4,005	9	15,952	4,108	8,972
51	15,26	4,28	9,062	15,531	4,143	9,031
52	14,955	4,565	9,131	15,107	4,423	9,096
53	14,733	4,865	9,206	14,844	4,715	9,168
54	14,504	5,163	9,286	14,618	5,014	9,246
55	14,584	5,876	9,373	14,544	5,52	9,329
56	14,754	5,588	8,432	14,669	5,732	8,903
57	15,276	5,673	8,487	15,015	5,631	8,46
58	15,863	5,786	8,564	15,57	5,729	8,526
59	16,363	5,757	8,603	16,113	5,771	8,584
60	16,813	5,656	8,619	16,588	5,707	8,611
61	17,168	5,731	8,64	16,99	5,693	8,63
62	17,558	5,721	8,672	17,363	5,726	8,656
63	17,889	5,463	8,681	17,724	5,592	8,677
64	18,194	5,116	8,673	18,042	5,289	8,677
65	18,553	4,977	8,765	18,374	5,046	8,719
66	18,909	4,772	8,819	18,731	4,875	8,792
67	19,199	2,956	7,288	19,054	3,864	8,054
67,394	19,344	2,929	7,287	7,593	1,159	2,871
68	19,446	2,889	7,285	11,753	1,763	4,415
69	19,144	2,82	7,282	19,295	2,854	7,283
70	18,098	2,748	7,278	18,621	2,784	7,28
71	16,246	2,681	7,271	17,172	2,714	7,275
72	15,448	2,47	7,255	15,847	2,575	7,263
73	16,142	2,246	7,243	15,795	2,358	7,249
74	17,86	2,017	7,229	17,001	2,131	7,236
75	19,524	1,783	7,233	18,692	1,9	7,231
76	20,393	1,67	7,267	19,959	1,727	7,25
77	20,669	1,698	7,243	20,531	1,684	7,255
78	20,805	1,569	7,274	20,737	1,634	7,258
79	20,701	1,555	7,27	20,753	1,562	7,272
80	20,459	1,556	7,277	20,58	1,555	7,273
81	20,426	1,558	7,277	20,442	1,557	7,277
82	20,779	1,412	7,299	20,602	1,485	7,288
83	21,157	1,391	7,297	20,968	1,402	7,298
84	21,616	1,419	7,312	21,387	1,405	7,304
85	22,382	1,452	7,328	21,999	1,435	7,32
86	22,838	1,477	7,341	22,61	1,464	7,335
87	23,161	1,516	7,375	23	1,497	7,358
88	23,14	1,549	7,401	23,151	1,532	7,388
89	22,883	1,577	7,42	23,011	1,563	7,41
90	22,386	1,541	7,445	22,634	1,559	7,432
91	21,872	1,492	7,478	22,129	1,516	7,462
92	21,272	1,455	7,513	21,572	1,473	7,496
93	20,679	1,482	7,461	20,976	1,469	7,487
94	20,868	1,516	7,397	20,774	1,499	7,429
95	20,954	1,515	7,386	20,911	1,515	7,392
96	20,17	1,554	7,378	20,562	1,535	7,382

97	18,884	1,689	7,38	19,527	1,622	7,379
98	17,526	1,772	7,39	18,205	1,731	7,385
99	16,822	1,714	7,422	17,174	1,743	7,406
100	16,561	1,683	7,449	16,692	1,698	7,435
101	16,262	1,669	7,457	16,411	1,676	7,453
102	15,093	1,688	7,446	15,677	1,679	7,452
103	13,178	1,701	7,429	14,135	1,694	7,437
104	12,228	1,717	7,413	12,703	1,709	7,421
105	12,009	1,686	7,412	12,118	1,701	7,412
106	11,811	1,614	7,433	11,91	1,65	7,422
107	11,698	1,556	7,468	11,754	1,585	7,45
108	11,633	1,503	7,502	11,665	1,53	7,485
109	11,561	1,46	7,535	11,597	1,482	7,519
110	11,738	1,431	7,57	11,649	1,445	7,553
111	12,347	1,248	7,694	12,042	1,339	7,632
112	14,494	0,929	7,825	13,421	1,089	7,759
113	17,303	0,926	7,894	15,899	0,928	7,859
114	19,165	0,924	7,935	18,234	0,925	7,915
115	19,535	0,923	7,971	19,35	0,924	7,953
116	19,337	0,924	8	19,436	0,924	7,985
117	19,106	0,925	8,011	19,221	0,924	8,005
118	18,87	0,932	8,006	18,988	0,928	8,009
119	18,644	0,937	7,972	18,757	0,934	7,989
120	18,275	0,943	7,942	18,459	0,94	7,957
121	17,813	0,946	7,961	18,044	0,944	7,951
122	17,268	0,949	7,905	17,54	0,947	7,933
123	16,744	0,949	7,84	17,006	0,949	7,873
124	16,87	0,949	7,946	16,807	0,949	7,893
125	17,121	0,951	7,971	16,995	0,95	7,959
126	17,648	0,946	7,988	17,384	0,949	7,98
127	18,224	0,939	8,015	17,936	0,943	8,002
128	18,71	0,931	8,029	18,467	0,935	8,022
129	19,024	0,922	8,046	18,867	0,926	8,037
130	19,4	0,909	8,112	19,212	0,916	8,079
131	20,246	0,896	8,224	19,823	0,902	8,168
132	21,623	0,9	8,378	20,935	0,898	8,301
133	22,381	0,966	8,456	22,002	0,933	8,417
134	22,049	0,986	8,458	22,215	0,976	8,457
135	21,671	1,005	8,429	21,86	0,995	8,443
136	21,335	1,025	8,371	21,503	1,015	8,4
137	20,867	1,044	8,315	21,101	1,035	8,343
138	20,504	1,063	8,281	20,685	1,054	8,298
139	20,178	1,083	8,289	20,341	1,073	8,285
140	20,212	1,001	8,325	20,195	1,042	8,307
141	21,427	0,565	8,353	20,819	0,783	8,339
142	22,114	0,112	8,364	21,77	0,339	8,359
143	19,852	0,009	8,194	20,983	0,061	8,279
144	17,943	0,011	8,148	18,898	0,01	8,171
145	18,211	0,013	8,175	18,077	0,012	8,162

146	20,328	0,014	8,324	19,269	0,014	8,25
147	23,206	0,016	8,459	21,767	0,015	8,391
148	24,832	0,018	8,497	24,019	0,017	8,478
149	26,001	0,02	8,443	25,416	0,019	8,47
150	25,212	0,438	8,354	25,607	0,229	8,399
151	23,745	0,844	8,248	24,479	0,641	8,301
152	21,738	1,185	8,206	22,742	1,015	8,227
153	20,599	1,343	8,232	21,169	1,264	8,219
154	20,029	1,351	8,268	20,314	1,347	8,25
155	19,724	1,359	8,263	19,876	1,355	8,266
156	19,792	1,365	8,059	19,758	1,362	8,161
157	19,868	1,368	8,097	19,83	1,367	8,078
158	19,623	1,363	8,096	19,746	1,365	8,097
159	18,639	1,343	8,073	19,131	1,353	8,084
160	17,552	1,296	8,064	18,096	1,32	8,068
161	17,727	1,237	8,09	17,639	1,267	8,077
162	18,381	1,154	8,111	18,054	1,195	8,1
163	19,167	1,07	8,181	18,774	1,112	8,146
164	19,982	1,016	8,284	19,575	1,043	8,233
165	20,853	0,96	8,288	20,418	0,988	8,286
166	21,779	0,857	8,281	21,316	0,909	8,285
167	22,714	0,693	8,243	22,246	0,775	8,262
168	23,58	0,497	8,132	23,147	0,595	8,187
169	23,974	0,346	8,144	23,777	0,422	8,138
170	24,155	0,271	8,117	24,065	0,308	8,131
171	24,796	0,193	8,066	24,476	0,232	8,092
172	25,521	0	7,998	25,159	0,096	8,032
173	26,122	0	8,003	25,822	0	8,001
174	26,55	0	8,001	26,336	0	8,002
175	26,848	0	7,973	26,699	0	7,987
176	26,662	0,2	7,917	26,755	0,1	7,945
177	25,631	0,238	7,837	26,147	0,219	7,877
178	23,765	0,28	7,801	24,698	0,259	7,819
179	21,391	0,486	7,766	22,578	0,383	7,784
180	18,66	0,538	7,756	20,026	0,512	7,761
181	16,464	0,602	7,738	17,562	0,57	7,747
182	14,988	0,687	7,709	15,726	0,645	7,724
183	14,409	0,841	7,671	14,699	0,764	7,69
184	14,339	0,923	7,645	14,374	0,882	7,658
185	14,469	0,757	7,923	14,404	0,84	7,784
185,192	14,529	0,721	7,939	2,784	0,142	1,523
186	14,961	0,571	7,969	11,914	0,522	6,427
187	15,569	0,601	7,973	15,265	0,586	7,971
188	16,19	0,638	7,991	15,879	0,62	7,982
189	16,863	0,679	8,015	16,526	0,658	8,003
190	17,833	0,713	8,047	17,348	0,696	8,031
191	19,178	0,746	8,1	18,506	0,729	8,074
192	20,517	0,772	8,18	19,847	0,759	8,14
193	21,677	0,785	8,287	21,097	0,778	8,234

193,038	21,716	0,785	8,294	0,824	0,03	0,315
194	22,342	0,787	8,338	21,192	0,756	8
195	22,444	0,77	8,256	22,393	0,778	8,297
196	21,401	0,806	8,246	21,922	0,788	8,251
197	19,165	0,744	8,275	20,283	0,775	8,261
198	17,837	0,712	8,37	18,501	0,728	8,323
199	17,885	0,484	8,243	17,861	0,598	8,307
200	17,36	0,324	8,085	17,622	0,404	8,164
201	17,185	0,245	7,932	17,272	0,284	8,008
202	18,488	0,18	7,8	17,836	0,213	7,866
203	19,828	0,128	7,712	19,158	0,154	7,756
204	20,713	0,084	7,668	20,27	0,106	7,69
205	21,067	0,056	7,625	20,89	0,07	7,647
206	20,783	0,027	7,594	20,925	0,042	7,61
207	19,586	0,003	7,503	20,184	0,015	7,548
208	18,214	0	7,364	18,9	0,001	7,433
209	16,944	0	7,174	17,579	0	7,269
210	16,036	0	6,983	16,49	0	7,079
211	16,356	0	6,783	16,196	0	6,883
212	15,656	0	6,644	16,006	0	6,713
213	14,976	0	6,528	15,316	0	6,586
214	14,424	0	6,427	14,7	0	6,477
215	13,979	0	6,323	14,202	0	6,375
216	13,286	0,171	6,076	13,632	0,086	6,2
217	12,388	0,195	5,946	12,837	0,183	6,011
218	11,888	0,278	5,872	12,138	0,236	5,909
219	11,728	0,326	5,819	11,808	0,302	5,846
220	11,697	0,295	5,801	11,712	0,311	5,81
221	12,019	0,228	5,815	11,858	0,262	5,808
222	12,15	0,243	5,781	12,085	0,236	5,798
223	12,278	0,268	5,73	12,214	0,255	5,755
223,88	12,661	0,276	5,7	10,973	0,239	5,029
224	12,689	0,272	5,695	1,521	0,033	0,684
225	12,804	0,372	5,714	12,746	0,322	5,704
226	12,84	0,483	5,73	12,822	0,427	5,722
227	12,597	0,639	5,745	12,718	0,561	5,738
228	12,274	0,786	5,761	12,436	0,713	5,753
229	12,109	0,929	5,774	12,192	0,857	5,767
230	12,123	1,06	5,787	12,116	0,994	5,78
231	12,111	1,215	5,798	12,117	1,138	5,792
232	11,72	1,467	5,807	11,915	1,341	5,803
233	11,144	1,644	5,815	11,432	1,556	5,811
234	10,394	1,708	5,822	10,769	1,676	5,819
235	9,713	1,72	5,828	10,054	1,714	5,825
236	9,462	1,734	5,832	9,588	1,727	5,83
237	9,431	1,749	5,835	9,447	1,742	5,833
238	9,389	1,765	5,836	9,41	1,757	5,835
239	10,458	1,183	5,837	9,923	1,474	5,837
240	11,863	0,439	5,838	11,16	0,811	5,838



241	12,666	0,066	5,865	12,264	0,253	5,851
242	12,754	0,068	5,86	12,71	0,067	5,863
243	12,824	0,069	5,854	12,789	0,068	5,857
244	12,805	0,07	5,847	12,814	0,07	5,851
245	12,754	0,072	5,837	12,779	0,071	5,842
246	12,039	0,578	5,797	12,397	0,325	5,817
247	10,879	1,382	5,782	11,459	0,98	5,789
248	9,995	1,926	5,766	10,437	1,654	5,774
249	10,136	1,942	5,749	10,066	1,934	5,758
250	9,568	1,958	5,732	9,852	1,95	5,741
251	9,279	1,974	5,714	9,424	1,966	5,723
252	8,971	1,991	5,693	9,125	1,982	5,703
253	8,075	2,007	5,671	8,523	1,999	5,682
254	8,186	2,023	5,648	8,131	2,015	5,66
255	8,475	2,039	5,623	8,331	2,031	5,636
256	8,687	2,056	5,597	8,581	2,047	5,61
257	8,876	2,072	5,57	8,782	2,064	5,583
258	9,189	2,034	5,54	9,032	2,053	5,555
259	9,765	1,588	5,51	9,477	1,811	5,525
260	9,987	1,077	5,478	9,876	1,332	5,494
261	10,279	0,621	5,439	10,133	0,849	5,459
262	10,58	0,314	5,371	10,429	0,468	5,405
263	10,75	0,255	5,366	10,665	0,285	5,369
264	11,239	0,203	5,348	10,994	0,229	5,357
265	11,914	0,164	5,332	11,577	0,184	5,34
266	12,701	0,143	5,307	12,307	0,154	5,319
267	14,604	0,11	5,341	13,652	0,127	5,324
268	16,64	0	5,481	15,622	0,055	5,411
269	17,534	0	5,609	17,087	0	5,545
270	18,005	0	5,707	17,77	0	5,658
271	18,285	0	5,804	18,145	0	5,756
272	18,491	0	5,899	18,388	0	5,851
273	18,605	0	5,978	18,548	0	5,938
274	18,548	0	6,003	18,577	0	5,991
275	18,175	0	6,024	18,361	0	6,014
276	18,538	0	6,045	18,356	0	6,035
276,065	18,56	0	6,047	1,206	0	0,393
277	18,845	0	6,066	17,487	0	5,663
278	19,102	0	6,088	18,974	0	6,077
279	19,077	0	6,111	19,09	0	6,1
280	18,799	0	6,187	18,938	0	6,149
281	19,005	0	6,289	18,902	0	6,238
282	19,772	0	6,391	19,388	0	6,34
283	20,87	0	6,479	20,321	0	6,435
284	21,659	0	6,537	21,265	0	6,508
285	22,308	0	6,593	21,983	0	6,565
286	22,81	0	6,649	22,559	0	6,621
287	23,014	0	6,73	22,912	0	6,689
288	23,035	0	6,822	23,025	0	6,776

289	22,974	0	6,906	23,004	0	6,864
290	23,751	0	6,918	23,362	0	6,912
291	24,304	0	6,939	24,028	0	6,928
292	24,413	0	6,968	24,359	0	6,953
293	24,153	0	6,964	24,283	0	6,966
294	23,826	0	6,954	23,99	0	6,959
295	23,376	0	6,962	23,601	0	6,958
296	22,886	0	6,996	23,131	0	6,979
297	22,814	0,035	7,057	22,85	0,018	7,027
298	22,976	0,081	7,123	22,895	0,058	7,09
299	23,067	0,129	7,19	23,022	0,105	7,157
300	23,108	0,176	7,262	23,088	0,153	7,226
301	23,036	0,225	7,323	23,072	0,201	7,293
302	22,605	0,274	7,366	22,82	0,249	7,344
303	22,688	0,323	7,404	22,646	0,299	7,385
304	22,883	0,373	7,454	22,785	0,348	7,429
305	22,901	0,424	7,52	22,892	0,399	7,487
306	23,056	0,474	7,587	22,979	0,449	7,554
307	23,193	0,525	7,667	23,124	0,5	7,627
308	23,288	0,576	7,766	23,24	0,551	7,717
309	23,33	0,627	7,868	23,309	0,602	7,817
310	23,197	0,678	7,925	23,264	0,653	7,896
311	22,655	0,728	7,939	22,926	0,703	7,932
312	21,92	0,741	7,896	22,288	0,734	7,918
313	21,746	0,719	7,887	21,833	0,73	7,892
314	22,707	0,698	7,918	22,227	0,709	7,902
314,107	22,794	0,696	7,921	2,434	0,075	0,847
315	23,456	0,676	7,946	20,65	0,612	7,085
316	23,918	0,654	7,96	23,687	0,665	7,953
317	24,19	0,633	7,954	24,054	0,643	7,957
318	24,404	0,611	7,945	24,297	0,622	7,95
319	24,485	0,588	7,922	24,445	0,6	7,934
320	24,402	0,567	7,882	24,443	0,578	7,902
321	24,054	0,55	7,837	24,228	0,559	7,86
322	23,291	0,536	7,872	23,673	0,543	7,855
323	22,471	0,528	7,909	22,881	0,532	7,891
324	21,881	0,523	7,921	22,176	0,525	7,915
325	21,485	0,521	7,915	21,683	0,522	7,918
326	21,279	0,522	7,908	21,382	0,522	7,911
327	21,246	0,526	7,936	21,262	0,524	7,922
328	21,244	0,534	7,996	21,245	0,53	7,966
329	21,144	0,546	8,049	21,194	0,54	8,022
330	21,008	0,562	8,095	21,076	0,554	8,072
331	21,488	0,57	8,094	21,248	0,566	8,094
332	23,201	0,579	8,068	22,344	0,574	8,081
333	24,864	0,586	8,028	24,032	0,582	8,048
334	24,659	0,591	7,917	24,762	0,589	7,972
335	24,445	0,603	7,919	24,552	0,597	7,918
336	24,277	0,606	7,933	24,361	0,604	7,926

337	24,145	0,587	7,937	24,211	0,597	7,935
337,192	24,142	0,583	7,938	4,636	0,112	1,524
338	24,081	0,551	7,938	19,482	0,458	6,414
339	23,994	0,494	7,955	24,037	0,522	7,946
340	23,895	0,422	7,99	23,944	0,458	7,972
341	23,769	0,338	8,035	23,832	0,38	8,012
342	23,752	0,256	8,065	23,76	0,297	8,05
343	22,082	0,155	8,11	22,917	0,205	8,088
344	20,114	0,128	8,125	21,098	0,141	8,117
345	18,494	0,068	8,149	19,304	0,098	8,137
346	17,78	0,125	8,199	18,137	0,096	8,174
346,468	17,403	0,146	8,23	8,233	0,063	3,844
347	16,922	0,163	8,264	9,13	0,082	4,388
348	16,064	0,172	8,302	16,493	0,168	8,283
349	15,275	0,151	8,219	15,669	0,162	8,261
350	14,409	0,283	8,14	14,842	0,217	8,18
351	13,16	0,269	8,126	13,785	0,276	8,133
352	13,079	0	8,137	13,12	0,135	8,132
353	13,289	0	7,947	13,184	0	8,042
354	13,312	0	8,089	13,3	0	8,018
355	12,798	0	8,204	13,055	0	8,146
356	12,892	0	8,251	12,845	0	8,228
357	13,265	0	8,317	13,079	0	8,284
358	13,033	0,048	8,381	13,149	0,024	8,349
359	13,512	0,087	8,443	13,272	0,067	8,412
360	13,98	0,085	8,521	13,746	0,086	8,482
361	14,071	0,103	8,611	14,025	0,094	8,566
362	13,864	0,128	8,696	13,968	0,115	8,653
363	13,599	0,184	8,725	13,732	0,156	8,711
364	13,252	0,424	8,82	13,425	0,304	8,773
365	12,754	0,846	8,913	13,003	0,635	8,866
366	12,877	0,956	7,997	12,815	0,901	8,455
367	12,635	1,162	8,042	12,756	1,059	8,02
368	11,941	1,161	8,019	12,288	1,162	8,03
369	10,643	1,054	7,914	11,292	1,108	7,967
370	9,796	0,978	7,804	10,219	1,016	7,859
371	9,452	0,91	7,657	9,624	0,944	7,73
372	9,718	0,836	7,661	9,585	0,873	7,659
373	10,083	0,756	7,699	9,901	0,796	7,68
373,008	10,087	0,755	7,699	0,081	0,006	0,062
<b>TOTALES:</b>	<b>6605,686</b>	<b>592,145</b>	<b>2925,385</b>	<b>6389,654</b>	<b>562,811</b>	<b>2818,969</b>

## MOVIMIENTO DE TIERRAS DEL EJE 13:

### FASE2:

P.K.	Sup.Desmorte	Sup.Terraplén	Sup.Vegetal	Vol.Desmorte	Vol.Terraplén	Vol.Vegetal
8	28,115	11,972	16,059			
9	25,19	12,099	16,033	26,653	12,035	16,046
10	21,626	11,635	15,372	23,408	11,867	15,702
11	18,922	11,129	14,721	20,274	11,382	15,047
12	16,775	10,383	14,088	17,849	10,756	14,404
13	15,66	9,431	13,453	16,218	9,907	13,77
14	15,246	8,375	12,819	15,453	8,903	13,136
15	14,424	7,123	12,166	14,835	7,749	12,492
15,374	14,023	6,692	11,9	5,32	2,583	4,5
16	13,294	6,151	11,454	8,55	4,02	7,31
17	12,11	5,296	10,781	12,702	5,723	11,118
18	10,946	4,517	10,129	11,528	4,906	10,455
19	9,636	3,807	9,47	10,291	4,162	9,8
20	8,521	3,389	9,278	9,078	3,598	9,374
21	7,558	2,891	9,376	8,04	3,14	9,327
22	6,769	2,575	8,646	7,164	2,733	9,011
23	6,36	2,283	8,253	6,565	2,429	8,449
24	5,755	1,921	7,924	6,058	2,102	8,088
25	5,262	1,84	7,607	5,508	1,881	7,766
26	4,974	1,913	7,269	5,118	1,877	7,438
27	4,719	1,985	6,942	4,846	1,949	7,105
28	4,474	1,995	6,581	4,596	1,99	6,762
29	10,91	1,542	6,542	7,692	1,769	6,561
29,256	10,903	1,563	6,546	2,792	0,397	1,675
30	10,888	1,54	6,531	8,106	1,154	4,865
31	10,877	1,16	6,477	10,882	1,35	6,504
32	11,887	0,763	6,623	11,382	0,962	6,55
33	13,752	0,636	6,749	12,819	0,7	6,686
34	14,668	0,638	6,84	14,21	0,637	6,794
35	15,174	0,645	6,923	14,921	0,642	6,881
36	15,537	0,657	6,98	15,355	0,651	6,951
37	15,831	0,666	7,004	15,684	0,661	6,992
38	16,131	0,672	7,005	15,981	0,669	7,004
39	16,734	0,681	7,034	16,432	0,676	7,02
40	17,34	0,689	7,09	17,037	0,685	7,062
41	17,694	0,688	7,1	17,517	0,688	7,095
42	17,826	0,69	7,1	17,76	0,689	7,1
43	17,768	0,69	7,104	17,797	0,69	7,102
44	17,917	0,69	7,109	17,842	0,69	7,106
45	17,878	0,689	7,118	17,897	0,689	7,114
46	17,674	0,688	7,132	17,776	0,689	7,125
47	17,676	0,686	7,149	17,675	0,687	7,141
48	17,713	0,685	7,169	17,695	0,686	7,159
49	17,667	0,678	7,167	17,69	0,682	7,168

50	17,807	0,683	7,143	17,737	0,681	7,155
51	17,851	0,685	7,141	17,829	0,684	7,142
52	17,715	0,685	7,23	17,783	0,685	7,185
53	17,885	0,684	7,339	17,8	0,684	7,285
54	18,507	0,65	7,416	18,196	0,667	7,378
55	19,159	0,572	7,438	18,833	0,611	7,427
56	19,773	0,546	7,47	19,466	0,559	7,454
56,947	20,107	0,548	7,497	18,883	0,518	7,086
57	20,127	0,548	7,5	1,066	0,029	0,397
58	20,38	0,556	7,623	20,253	0,552	7,562
59	20,697	0,562	7,814	20,539	0,559	7,718
60	18,137	0,561	8,357	19,417	0,561	8,085
61	16,9	0,561	8,645	17,519	0,561	8,501
62	18,02	0,561	8,681	17,46	0,561	8,663
63	18,327	0,562	8,775	18,174	0,562	8,728
64	16,795	0,564	8,771	17,561	0,563	8,773
65	15,37	0,571	8,685	16,082	0,567	8,728
66	14,563	0,576	8,507	14,966	0,573	8,596
67	13,35	0,586	8,259	13,957	0,581	8,383
68	10,789	0,599	7,602	12,07	0,593	7,93
69	9,884	0,607	6,972	10,337	0,603	7,287
70	9,808	0,604	6,891	9,846	0,605	6,931
71	10,006	0,6	7,023	9,907	0,602	6,957
72	15,018	0,601	6,9	12,512	0,601	6,962
73	12,297	0,607	6,025	13,658	0,604	6,463
74	10,407	0,612	5,245	11,352	0,609	5,635
75	9,526	0,619	4,821	9,966	0,615	5,033
76	9,334	0,628	4,702	9,43	0,624	4,761
77	8,938	0,638	4,563	9,136	0,633	4,632
78	8,46	0,652	4,407	8,699	0,645	4,485
79	7,92	0,659	4,241	8,19	0,655	4,324
79,916	7,461	0,682	4,08	7,044	0,614	3,811
80	7,457	0,695	4,089	0,627	0,058	0,343
81	7,434	0,668	4,163	7,446	0,681	4,126
82	7,495	0,662	4,14	7,465	0,665	4,151
83	7,553	0,737	4,209	7,524	0,699	4,175
84	7,694	0,791	4,27	7,624	0,764	4,24
85	7,815	0,685	4,25	7,755	0,738	4,26
86	7,917	0,566	4,296	7,866	0,626	4,273
87	7,935	0,504	4,362	7,926	0,535	4,329
88	7,91	0,517	4,439	7,922	0,51	4,4
89	7,898	0,506	4,373	7,904	0,511	4,406
90	7,943	0,525	4,395	7,92	0,516	4,384
91	7,981	0,522	4,447	7,962	0,524	4,421
92	8,054	0,516	4,505	8,017	0,519	4,476
92,138	8,077	0,515	4,518	1,113	0,071	0,623
<b>TOTALES:</b>	<b>1191,285</b>	<b>175,216</b>	<b>677,032</b>	<b>1113,735</b>	<b>159,013</b>	<b>632,819</b>

## MOVIMIENTO DE TIERRAS DEL EJE 15:

### FASE 1.1:

P.K.	Sup.Desmonte	Sup.Terraplén	Sup.Vegetal	Vol.Desmonte	Vol.Terraplén	Vol.Vegetal
0	0	0,709	1,699			
1	0	0,605	1,71	0	0,657	1,704
2	0	0,562	1,714	0	0,584	1,712
3	0	0,584	1,711	0	0,573	1,713
4	0	0,623	1,709	0	0,604	1,71
5	0	0,612	1,709	0	0,618	1,709
6	0	0,569	1,714	0	0,59	1,711
7	0	0,518	1,72	0	0,543	1,717
8	0	0,442	1,727	0	0,48	1,724
9	0	0,353	1,736	0	0,397	1,732
10	0	0,333	1,739	0	0,343	1,737
11	0	0,382	1,734	0	0,357	1,736
12	0	0,422	1,728	0	0,402	1,731
13	0	0,454	1,723	0	0,438	1,726
14	0	0,49	1,719	0	0,472	1,721
15	0	0,55	1,714	0	0,52	1,716
16	0	0,691	1,7	0	0,62	1,707
17	0	0,843	1,684	0	0,767	1,692
18	0	0,992	1,668	0	0,918	1,676
19	0	1,138	1,653	0	1,065	1,66
20	0	1,226	1,645	0	1,182	1,649
21	0	1,167	1,65	0	1,196	1,648
22	0	1,101	1,657	0	1,134	1,653
23	0	1,04	1,659	0	1,07	1,658
24	0	1,053	1,657	0	1,046	1,658
25	0	1,135	1,653	0	1,094	1,655
26	0	1,141	1,651	0	1,138	1,652
27	0	1,136	1,652	0	1,138	1,651
28	0	1,137	1,651	0	1,136	1,652
29	0	1,145	1,651	0	1,141	1,651
30	0	1,15	1,652	0	1,148	1,651
31	0	1,035	1,661	0	1,093	1,657
32	0	0,937	1,674	0	0,986	1,667
33	0	0,903	1,684	0	0,92	1,679
34	0	0,872	1,689	0	0,887	1,686
35	0	0,838	1,694	0	0,855	1,692
36	0	0,827	1,696	0	0,833	1,695
37	0	0,729	1,701	0	0,778	1,698
38	0	0,605	1,714	0	0,667	1,707
39	0	0,475	1,725	0	0,54	1,72
40	0	0,43	1,724	0	0,452	1,725
41	0	0,53	1,714	0	0,48	1,719
42	0	0,641	1,704	0	0,586	1,709
43	0	0,75	1,693	0	0,696	1,698

44	0	0,874	1,68	0	0,812	1,686
45	0	1,018	1,665	0	0,946	1,672
46	0	1,152	1,651	0	1,085	1,658
47	0	1,249	1,64	0	1,201	1,645
48	0	1,357	1,637	0	1,303	1,638
49	0	1,475	1,638	0	1,416	1,638
50	0	1,597	1,638	0	1,536	1,638
51	0	1,704	1,64	0	1,65	1,639
52	0	1,722	1,639	0	1,713	1,64
53	0	1,737	1,637	0	1,729	1,638
54	0	1,75	1,633	0	1,743	1,635
55	0	1,758	1,63	0	1,754	1,632
56	0	1,746	1,625	0	1,752	1,627
57	0	1,696	1,621	0	1,721	1,623
58	0	1,643	1,617	0	1,669	1,619
59	0	1,583	1,614	0	1,613	1,615
60	0	1,534	1,616	0	1,559	1,615
61	0	1,513	1,617	0	1,524	1,616
62	0	1,417	1,624	0	1,465	1,621
63	0	1,286	1,636	0	1,352	1,63
64	0	1,164	1,644	0	1,225	1,64
64,962	0	1,141	1,646	0	1,109	1,582
65	0	1,148	1,644	0	0,043	0,062
66	0	1,143	1,65	0	1,145	1,647
67	0	1,064	1,66	0	1,103	1,655
68	0	0,94	1,673	0	1,002	1,666
69	0	0,824	1,683	0	0,882	1,678
70	0	0,725	1,694	0	0,775	1,689
71	0	0,642	1,705	0	0,683	1,699
72	0	0,493	1,722	0	0,567	1,713
73	0,028	0,189	1,753	0,014	0,341	1,738
74	0,203	0	1,795	0,115	0,094	1,774
75	0	0,448	1,737	0,102	0,224	1,766
76	0	0,478	1,73	0	0,463	1,733
77	0	0,164	1,762	0	0,321	1,746
78	0,154	0	1,787	0,077	0,082	1,775
79	0	1,086	1,66	0,077	0,543	1,724
80	0	0,893	1,681	0	0,989	1,671
80,684	0	0,77	1,697	0	0,569	1,155
81	0	0,73	1,702	0	0,237	0,537
82	0	1,424	1,629	0	1,077	1,666
83	0	1,627	1,629	0	1,525	1,629
84	0	1,373	1,634	0	1,5	1,632
85	0	1,201	1,644	0	1,287	1,639
86	0	2,586	1,691	0	1,894	1,667
87	0	2,222	1,668	0	2,404	1,68
88	0	1,62	1,683	0	1,921	1,676
89	0	2,209	1,699	0	1,914	1,691
90	0	2,411	1,697	0	2,31	1,698

91	0	2,104	1,692	0	2,257	1,695
92	0	1,749	1,7	0	1,926	1,696
93	0	2,596	1,693	0	2,172	1,696
94	0	1,846	1,689	0	2,221	1,691
95	0	1,094	1,687	0	1,47	1,688
96	0	1,369	1,693	0	1,231	1,69
97	0	1,3	1,699	0	1,334	1,696
98	0,031	0,657	1,702	0,015	0,978	1,701
99	0,263	0,283	1,764	0,147	0,47	1,733
100	0,009	0,906	1,727	0,136	0,595	1,746
101	0,151	0,765	1,763	0,08	0,836	1,745
102	0,187	0,768	1,785	0,169	0,767	1,774
103	0,033	1,405	1,799	0,11	1,087	1,792
104	0,015	1,546	1,797	0,024	1,476	1,798
105	0,065	1,201	1,794	0,04	1,374	1,796
106	0,162	0,885	1,793	0,113	1,043	1,793
107	0	1,922	1,782	0,081	1,404	1,787
108	0	1,571	1,766	0	1,747	1,774
109	0,008	1,154	1,74	0,004	1,363	1,753
110	0	1,589	1,726	0,004	1,372	1,733
111	0	1,453	1,725	0	1,521	1,726
112	0,036	0,822	1,731	0,018	1,137	1,728
113	0,094	0,519	1,727	0,065	0,671	1,729
114	0	1,398	1,725	0,047	0,959	1,726
115	0,057	0,793	1,733	0,029	1,096	1,729
116	0,311	0,429	1,745	0,184	0,611	1,739
117	0,162	0,47	1,736	0,237	0,45	1,74
118	0,211	0,21	1,756	0,186	0,34	1,746
119	0,356	0,105	1,796	0,284	0,157	1,776
120	0,537	0,049	1,827	0,447	0,077	1,811
121	0	0,535	1,723	0,269	0,292	1,775
122	0,15	0,079	1,776	0,075	0,307	1,75
123	0,704	0	1,828	0,427	0,039	1,802
124	0	0,175	1,758	0,352	0,088	1,793
125	0	0,444	1,726	0	0,31	1,742
126	0,006	0,145	1,742	0,003	0,294	1,734
127	0,251	0	1,765	0,129	0,072	1,753
128	0	0,912	1,652	0,126	0,456	1,708
129	0	0,735	1,691	0	0,824	1,671
129,575	0	0,727	1,693	0	0,42	0,973
<b>TOTALES:</b>	<b>4,184</b>	<b>131,111</b>	<b>225,805</b>	<b>4,186</b>	<b>128,16</b>	<b>220,045</b>