**DECLARATION** 

<u>DECLARATION</u>
I, <u>Lawrence J. Schilling</u> , declare:
1. I am <u>Trustee</u> for <u>The L &amp; M Schilling 1992 Family Trust</u> , a party to this action
In lieu of deposition testimony for the Phase 4 trial, I am providing this declaration. This
declaration applies only to the categories I have filled in. The items left blank or crossed out do
not apply to me. I have personal knowledge of each fact herein and would testify competently
thereto under oath.
Property Ownership and Parcel Size
2. The L & M Schilling 1992 Family Trust owns property that overlies the Antelope Valley
Area of Adjudication as decided by this Court. The land is in Los Angeles County and is
identified by the following APN/APNs:
3310-004-012; 3310-004-011; 3060-019-029
[If additional room is needed, please identify the APN/APNs in Exhibit A.] A true and correct
copy of Exhibit A is attached hereto and incorporated herein.
3. The L & M Schilling 1992 Family Trust claims groundwater rights only as to the
properties listed in Paragraph 2 and Exhibit A.
4. For each APN/APNs identified above, the total acreage by parcel is as follows:
3310-004-012 (5.15 Acres); 3310-004-011 (5.15 Acres); 3060-019-029 (40 Acres)
[If additional room is needed, please identify the APN/APNs and parcel size in Exhibit B.] A tru
and correct copy of Exhibit B is attached hereto and incorporated herein.
5. For each APN/APNs identified above The L & M Schilling 1992 Family Trust owned the
property during the following time period:
3310-004-012: Lawrence J. Schilling and Mary P. Schilling, June 1983 - Nov 1992 (prior to
trust); The L & M Schilling 1992 Family Trust, Nov 1992 to present.
3310-004-011: Jan 2006 to present.
3060-019-029: May 2006 to present.

The following are all individuals/entities appearing on the title for the above identified

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1 attached hereto and incorporated herein. 2 leases property from which overlies the 3 13. Antelope Valley Area of Adjudication as decided by this court and is identified by the following 4 5 APNS: 6 7 The total acreage by parcel is: 14. 8 9 The Lease provides that may claim groundwater rights from use of 15. water on leased property. Attached to this declaration is a true and correct copy of the lease. 10 BEST BEST & KRIEGER LLP 3750 UNIVERSITY AVENUE, SUITE 400 P.O. BOX 1028 RIVERSIDE, CALIFORNIA 92502 11 12 [If additional room is needed, please attach APN/APNs, Name of the Lessor and acreage by APN 13 for each parcel list in Exhibit D to this declaration.] A true and correct copy of Exhibit D is 14 attached hereto and incorporated herein. 15 claims groundwater rights only as to the leasehold interests listed 16. 16 in Paragraph 15 and Exhibit D. 17 claims groundwater rights only as to the properties listed in 17. 18 Paragraph 2 and Exhibit A and as to the leasehold interests listed in Paragraph 8 and Exhibit C. To the best of my knowledge, only claims groundwater rights as to the 19 18. 20 leased parcel(s) identified in paragraph 15 and Exhibit D. 21 **Water Meter Records** 22 19. measures the groundwater production on the above referenced 23 properties by water meters. Exhibit E contains the records for these water meters for the 24 following years: 25 26 A true and correct copy of Exhibit E is attached hereto and incorporated herein. 27 20. Exhibit F sets forth the total yearly production amounts by metered water well on the 28 above referenced properties for the years 2000-2004, 2011, and 2012. A true and correct copy of

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Exhibit F is attached hereto and incorporated herein. **State Water Project Purchases** 21. purchases State Water Project water from a State Water Contractor for use by on the properties referenced above. Exhibit G contains true and correct copies of the invoices for delivery of State Water Project Water to the properties referenced above. 22. Exhibit H sets forth the total yearly State Water Project water deliveries to the properties referenced above for the years 2000-2004, 2011, and 2012. A true and correct copy of Exhibit H is attached hereto and incorporated herein. **Pump Tests/ Electric Records** 23. In order to calculate groundwater pumped and used on the properties referenced above, The L & M Schilling 1992 Family Trust relied on pump tests and electric records an hour meter (timer) and manufacturer's pump performance data. Exhibit I contains true and correct copies of the pump test records and electrical records hour meter readings and manufacturer's pump performance data for wells on the properties referenced above. The electric records attached to this declaration as Exhibit I do not include electric use on the properties referenced above for anything other than pumping groundwater. 24. Exhibit J sets forth the amount of total yearly groundwater that The L & M Schilling 1992 <u>Family Trust</u> estimates was pumped and used on the properties referenced above for the years 2000-2004, 2011, and 2012 based on the attached pump test records and electrical records hour meter and manufacturer's pump performance data for the wells on the properties referenced above. A true and correct copy of Exhibit J is attached hereto and incorporated herein. Pump tests were performed on the following dates: 25. **None** 

The L & M Schilling 1992 Family Trust is not producing pump test records for the 26. following dates because:

Formal pump tests were not conducted for this standard domestic well pump/motor combination.

LAW OFFICES OF BEST BEST & KRIEGER LLP 3750 UNIVERSITY AVENUE, SUITE 400 P.O. BOX 1028 RIVERSIDE, CALIFORNIA 92502 27. I am not aware of any other pump tests having been performed on the properties referenced above.

#### **Pump Tests/Diesel Records**

- 28. In order to calculate groundwater pumped and used on the properties referenced above,

  relied on pump tests and diesel fuel records. Exhibit K contains true and correct copies of the records pertaining to pump tests and diesel fuel purchases for the properties referenced above. The diesel fuel records attached to this declaration as Exhibit K do not include diesel fuel used on the properties referenced above for anything other than pumping groundwater.
- 29. Exhibit L sets forth the amounts of total yearly groundwater pumped and used on the properties referenced above for the years 2000-2004, 2011, and 2012. A true and correct copy of Exhibit L is attached hereto and incorporated herein.
- 30. Pump tests were performed on the following dates:

31. \_\_\_\_\_is not producing pump test records for the following dates \_\_\_\_\_\_because:

32. I am not aware of any other pump tests having been performed on the properties referenced above.

## **Crop Duties and Irrigated Acres**

- 33. In order to calculate water use on the properties referenced above, \_\_\_\_\_\_ relies on the amount of acres in irrigation on the properties referenced above multiplied by the crop duty identified in the Summary Expert Report, Appendix D-3: Table 4, a true and correct copy of which is attached to this declaration as Exhibit M.
- 34. The total amount of irrigated acres and type of crops on the properties referenced above by APN for the years 2000-2004, 2011 and 2012 are described in Exhibit N. A true and correct copy of Exhibit N is attached hereto and incorporated herein.

**DECLARATION** 

produce or use water within the Antelope Valley Area of Adjudication for 2000-2004, 2011, and 2012.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct. Executed this <a href="#">1/2</a> day of April 2013, at <a href="#">Lancaster</a>, California.

fun Sililli, Trustee

EXHIBIT "I", Table 1. Recorded Hour Meter Readings

LAW OFFICES OF BEST BEST & KRIEGER LLP 3750 UNIVERSITY AVENUE, SUITE 400 P.O. BOX 1028 RIVERSIDE, CALIFORNIA 92502

Data	Hour	Comment
<u>Date</u>	<u>Meter</u>	<u>Comment</u>
12/31/99	9005.4	
4/02/00	9184.4	
6/02/00	9352.8	
7/01/00	9469.6	
8/06/00	9668.5	
8/31/00	9804.6	
9/30/00	9922.1	
11/03/00	10054.6	
12/03/00	10158.0	
1/01/01	10236.3	estimated
2/04/01	10328.2	
2/25/01	10380.8	
4/01/01	10473.3	
5/01/01	10549.3	
5/30/01	10646.8	
7/01/01	10778.3	
7/31/01	10934.2	
9/25/01	11236.2	
11/11/01	11423.9	
12/02/01	11484.6	corrected
12/31/01	11558.7	corrected
3/10/02	11735.0	corrected
4/11/02	11822.5	corrected
5/02/02	11885.3	corrected
6/02/02	11981.9	corrected
7/13/02	12138.2	corrected
8/02/02	12260.5	corrected
9/21/02	12571.0	corrected
10/26/02	12762.5	corrected, new hour meter installed
11/02/02	35.7	
12/01/02	158.1	
1/01/03	238.7	
3/23/03	467.4	
5/04/03	635.5	
5/31/03	762.1	
7/03/03	965.8	
8/10/03	1191.6	
9/01/03	1330.4	
10/15/03	1608.4	
10/26/03	1656.0	

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12/21/03	1836.7	
12/26/03	1848.3	
1/01/04	1859.4	
3/28/04	2005.9	
4/25/04	2092.3	
5/02/04	2114.8	
6/13/04	2304.4	
8/11/04	2656.5	
10/12/04	3041.6	
10/31/04	3140.2	
11/21/04	3200.4	
12/30/04	3324.9	
1/01/05	3325.4	
		Readings for 2006-2010 omitted
		<u>G</u> -
1/01/11	10612.1	
1/09/11	10613.4	
3/11/11	10700.4	
3/19/11	10715.4	
4/17/11	10770.7	
5/14/11	10844.1	
6/08/11	10926.1	
6/23/11	10982.9	
7/20/11	11113.4	
7/25/11	11149.6	
9/13/11	11419.0	
9/18/11	11438.3	
10/06/11	11515.0	
10/10/11	11532.2	
11/12/11	11641.5	
12/26/11	11704.7	
1/01/12	11715.8	estimated
3/18/12	11858.0	
3/28/12	11880.0	
4/05/12	11898.5	
4/15/12	11927.0	
5/05/12	11988.4	
5/11/12	12005.9	
5/30/12	12068.4	
6/02/12	12082.1	
6/17/12	12141.4	
6/22/12	12168.9	
7/12/12	12256.1	
7/12/12	12308.9	
9/25/12	12670.9	
10/06/12	12070.9	
10/08/12	12722.2	
10/00/12	14/30.4	

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10/27/12	12798.7		
11/04/12	12818.9		
11/14/12	12849.1		
12/08/12	12908.3		
1/01/13	12960.1		
		- 12 -	

**16S EASY SELECTION CHART** 

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### **16 GPM**

**SELECTION CHARTS** FLOW RANGE PUMP OUTLET 1 1/4 " NPT (Ratings are in GALLONS PER MINUTE-GPM) (10 TO 20 GPM)

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16805-5	1/2	30	17.3	14.4	8.0	1.6	3.0	$\vdash$		_	$\vdash$	$\vdash$		-	-		-	_	-		-	-	-	-	-	-	
10305-5	1/2	40	12.7	8.0	4.0	1.0	$\vdash$	$\vdash$		-	$\vdash$	-		$\vdash$	-	-	_		$\vdash$		$\vdash$	-		$\overline{}$	$\dashv$	-	_
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		20		10000000	_	18.8	_		11.8	8.5	4.3	$\vdash$	_		-	-	-	_	$\vdash$		-	-	-	-	-		-
16S07-8	3/4	_	21.2	19.9	18.4	16.9	14.3	11.8	7.5	3.2	1.6	$\vdash$	$\vdash$		-	-	-	_	$\vdash$	_	-	-	$\vdash$	-	-	-	
		40	19.7	18.3	16.3	14.3	10.8	7.2	3.6		$\vdash$	$\vdash$	-		-	-	$\vdash$	_	-	_	$\vdash$	$\vdash$	$\vdash$	$\vdash$	$\dashv$	-	_
		50	17.9	16.3	13.5	10.7	-	1.7				-	-		-	-	_	$\vdash$	$\vdash$		-	$\vdash$		-	-		
	L	60	15.7	13.5	9.6	5.8	2.9		45	- 20	- 20	40	40	$\vdash$	-	-	_	_	$\vdash$		$\vdash$	-	$\vdash$		$\vdash$		<u> </u>
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16S10-10	1	30			-	19.3	18.1	16.8	14.8	12.8	9.8	6.7	3.3	$\vdash \vdash$	$\vdash$	$\vdash$		_	$\vdash$		$\vdash$	$\vdash$	$\vdash$	$\vdash$	$\dashv$	-	<u> </u>
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		60	18.8	17.6	15.8	14.1	11.3	8.6	4.8		$\vdash$	$\vdash$		$\vdash$	-	$\vdash$			$\vdash$		$\vdash \vdash$	$\vdash$	,—-	$\vdash$	$\vdash$		<u> </u>
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		20							20.1	19.3	18.5	17.7	16.6	15.4	13.8	12.2	10.0	5.1			Ш		$\sqcup$	$\square$	$\Box$		
16S15-14	1 1/2	30					20.7	20.0	19.2	18.4	17.4	16.5	15.1	13.7	11.8	9.8	7.3	2.4									
		40				20.6	19.8	19.1	18.3	17.4	16.0	15.0	13.3	11.6	9.3	7.0	4.3						$\square$				
		50			20.4	19.8	18.9	18.2	17.2	16.1	14.7	13.2	11.2	9.1	6.5	3.9	2.0						$\Box$				_
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		0										21.2	20.6	20.0	19.5	18.9	18.2	16.7	13.5	8.8	2.7						
		20									20.4	19.8	19.3	18.7	18.0	17.3	16.4	14.3	10.0	4.2							
16S20-18	2	30								20.3	19.8	19.2	18.6	17.9	17.2	16.3	15.3	12.8	7.9	1.9							
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		60			$\Box$		20.1	19.5	18.9	18.3	17.5	16.8	15.8	14.8	13.5	12.3	10.6	7.0									
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16\$50-38	5	30	_	-	$\vdash$	-	$\vdash$	$\vdash$	$\vdash$	$\vdash$	_	$\vdash$	$\vdash$	$\vdash$	$\vdash$	$\vdash$	$\vdash$	_	$\vdash$	21.1	20.2	18.8	16.7	13.7	9.3	2.7	
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1		50	_	<u> </u>	<del>                                     </del>	$\vdash$	$\vdash$	$\vdash$	$\vdash$	$\vdash$		$\vdash$	-	$\vdash$	$\vdash\vdash$	_	$\vdash$	$\vdash$	21.3	20.4	19.4	17.9	15.4	11.9	6.6	0.0	$\vdash$
								. !	1	1 /	4								21.0	20.4	10.4	11.0	10.7		V.0		-
SHUT-OFF	L	60	$\vdash$	-			$\vdash$												314	288	262	227	184	141	98	54	11

See 16S performance curves for higher head models. SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

EXHIBIT "J"

### Acre-Feet Pumped per Year Estimates APN # 3310-004-012

Parameters: 16.5 gallons per minute (990 gallons per hour)

325851 gallons per acre-foot

<u>Year</u>	<u>Hours</u>	<u>Gallons</u>	Acre-Feet
2000	1231	1218690	3.7
2001	1322	1308780	4.0
2002	1443	1428570	4.4
2003	1621	1604790	4.9
2004	1466	1451340	4.5
2011	1104	1092960	3.4
2012	1244	1231560	3.8

Average for years 2000-2004, 2011-2012: 4.1 Acre-Feet

### Acre-Feet Pumped per Year Estimates APN # 3310-004-011

0.0 for all years

### Acre-Feet Pumped per Year Estimates APN # 3060-019-029

0.0 for all years

# Calculation of Estimated water pumped for parcel APN # 3310-004-012.

The well on this parcel provides water for household use and irrigation of trees, shrubbery, lawn, and other vegetation. No commercial crops are raised. The well is 250 feet deep with the pump set at a depth of 210 feet. Current water depth is 156 feet. New pump/motors were installed in September of 1990 and July of 2005. Both units consisted of a submersible Grundfos 16S15-14 driven by an attached Franklin 1-1/2 horse electric motor.

An electronic hour meter has been attached to this well since July of 1987. This hour meter only runs when the pressure switch at the pressure tank energizes the pump. The date and meter

reading has been recorded periodically since 1987 and the annual hours of pumping are known for each year since 1988.

The depth to pumping water level (lift) for this well has been measured periodically and is known for the period.

Water use is dominated by irrigation of trees, shrubbery, lawn, and other vegetation. The steady-state pumping pressure while irrigating has been observed at the pressure tank and recorded. The pressure at the well cap has been measured to be 5 psi higher than that recorded at the pressure tank (which is approximately 65 feet from the well) while pumping.

Knowing the pressure at the well cap and the depth to pumping water level (lift), the pump flow rate can be determined from performance data provided by the manufacturer (Grundfos). Using this pump flow rate and the annual hours of pumping, the amount of water pumped can be estimated.

### **Annual Hours of Operation**

Exhibit I, Table 1 contains the hour meter reading and date for each observation made for the years 2000-2004 and 2011-2012. This data was obtained visually and entered in an Excel spreadsheet. In those cases when an entry was not made at year-end, an estimate was made based on the hour meter reading preceding and following year-end (as noted in the table). In October of 2002, it was discovered that the hour meter was faulty, with intermittent operation. Corrections were made retroactively to the hour meter readings (as noted in the table) following this discovery. The corrections were estimated based on the programmable irrigation controller scheduled hours of operation. The hour meter was replaced on October 26, 2002. As a result, the estimate for 2002 is based largely on corrected data.

From the hour meter readings recorded, the annual number of hours of operation in the years of

interest can be determined, as follows:

<u>Year</u>	Hours of Operation
2000	1231
2001	1322
2002	1443
2003	1621
2004	1466
2011	1104
2012	1244

### **Flow Rate Determination**

To obtain flow rate from the manufacturer's chart, the depth to the water pumping level and the pressure at the well cap are needed.

The standing water depth has been measured periodically. The results are:

<u>Date</u>	Dept to Water Level
7/25/00	151.5
10/26/02	152.8
5/15/04	152.9
7/20/05	153.7
6/16/07	154.4
7/02/09	154.7
6/02/12	156.3

Following installation of a new pump/motor in 1990, it was found by measurement that the water level drops 4.8 feet during prolonged pumping. Therefore, the depth of water to the pumping level ranges from 156.3 feet to 161.1 feet. The average value over the period is 158.7 feet. A conservative value of 160 feet is used for obtaining flow rate from the manufacturer's chart.

The irrigation system for the trees, shrubbery, lawn and other vegetation consists of sprinklers and bubblers controlled by 17 valves operated by a Hunter programmable controller. The steady-state pressure for each station (valve) of the irrigation system has been determined. Since

pumping is heavily dominated by irrigation, a time-weighted average pressure has been determined and is utilized as the basis for estimated pumping pressure.

The time weighted average pressure is calculated by multiplying the steady-state pressure for each of the 17 stations (valves) by the weekly minutes of run time of that station. These values are then summed together. Finally, the result is divided by total weekly run time. Typical summer and winter watering schedules are shown in Exhibit J, Table 1. These schedules include run times and steady state pressure measured at the pressure tank for each valve. The overall time-weighted average pressure for each schedule is also shown. Average pressure in summer is 35.6 psi. In winter, it is 33.5 psi. Since more water is pumped in hot months than cold, the annual average is weighted toward the summer value. The annual average pumping pressure is estimated to be 35 psi.

It has been found that the pressure drops approximately 5 psi from the well cap to the pressure tank (approximately 65 feet away) while pumping. Therefore, 5 psi must be added to the pressure tank value to get well cap pressure for use in the manufacturer's performance chart. The result is an estimate of 40 psi.

Exhibit I, Table 2 contains the manufacturer's performance chart. Expected flow rate can be read directly from the chart for a depth of 160 feet and a pressure of 40 psi. That flow rate is 17.4 gallons per minute.

To account for pump wear and other variables, the value for flow rate from the chart was further reduced (made more conservative) by 5% to 16.5 gallons per minute. This flow rate was used to estimate the historic pumping for parcel APN # 3310-004-012.

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7/22/2	012														
Settina															
	A (Lawn)											# Heads	steady- state presssure		Pressure x minutes
		Minutes									Minutes				
Station	Location	per Run	start /end	Su	Мо	Tu	We	Th	Fr	Sa	per Week				
A-1	SE sprinklers	20	10:00 AM	X	X	X	X	X	X	X	140	4+3x1/4	42		5880
A-2	NE sprinklers	15	end time	х	х	х	X	х	х	X	105	4+1/2	48		5040
A-3	N sprinklers	23	11:46 AM	х	X	х	X	X	X	X	161	4+1/2	39.5		6360
A-4	Garden	14		X	х	х	х	х	x	x	98	4+2x1/4	45		4410
A-5	W Sprinklers	14		х	х	х	х	х	х	х	98	3+1/2	54.5		534
A-6	S Sprinklers	20		х	х	x	х	х	x	х	140	4+1/2+1/4	43		6020
A-7															
A-8															
		106									742				
		Minutes									Minutes				
Program	B (Trees)		start time	Su	Мо	Tu	We	Th	Fr	Sa	per Week				
B-9	NE Trees	69	11:00 PM					x		-	138	8	34		4692
B-10	Corral by Shed	69	end time	X				X			138		36		4968
B-11	Cottonwood	56	6:03 AM					x			112		41		4592
B-12	NE Cypress	74	0.0071.1	X				X			148		31		4588
B-13	NW Cypress	74		X				X			148	_	26		3848
B-14	W Cypress	81		x				x			162	7	26		4212
B-15	W Cypicss	01		^				^			102	'	20		7211
B-16															
D 10		423									846				
		Minutes									Minutes				
	C (Trees)		start time	Su	Мо	Tu	We	Th	Fr	Sa	per Week				
C-17	SW Cypress	77	11:00 PM		X				X		154		23		3542
C-18	S Cypress	54	end time		X				X		108	4	38		4104
C-19	Circle trees	86	4:28 AM		X				X		172		31		5332
C-20	Slab Cypress	63			X				X		126		32		4032
C-21	Roses	48			X				X		96	8	31		2976
C-22															
C-23														sum:	79937
C-24													ighted average pres	sure:	35.6
		328									656				
							a. she			l l	2244				
										eek=					
							nour	s pe	ı we	eek=	37.4				

1/19/2	013														
Setting	60%														
Program	n A (Lawn)											# Heads	steady- state presssure		Pressure x minutes
		Minutes		_		_			_	_	Minutes				
	Location				Мо		We		Fr	Sa					
A-1	SE sprinklers	8	10:00 AM			X		X				4+3x1/4	42		1008
A-2	NE sprinklers	6	end time	X		X		X				4+1/2	48		864
A-3	N sprinklers	9	10:41 AM	X		X		X				4+1/2	39.5		1067
A-4	Garden	5		X		X		X				4+2x1/4	45		675
A-5	W Sprinklers	5		X		X		X			15	3+1/2	54.5		818
A-6	S Sprinklers	8		x		X		X			24	4+1/2+1/4	43		1032
A-7															
A-8															
		41									123				
		Minutes									Minutes				
Program	B (Trees)	per Run	start time	Su	Мо	Tu	We	Th	Fr	Sa	per Week				
B-9	NE Trees	28	11:00 PM					X			56	8	34		1904
B-10	Corral by Shed	28	end time	x				X			56		36		2016
B-11	Cottonwood	22	1:48 AM	x				X			44	5	41		1804
B-12	NE Cypress	29		X				X			58		31		1798
B-13	NW Cypress	29		x				X			58		26		1508
B-14	W Cypress	32		х				X			64		26		1664
B-15	11 c) p. ccc							- ^-							
B-16															
D 10		168									336				
Program	C (Trees)	Minutes per Run	start time	Su	Мо	Tu	We	Th	Fr	Sa	Minutes per Week				
C-17	SW Cypress	31	11:00 PM		х				х		62	8	23		1426
C-18	S Cypress	22	end time		х				х		44	4	38		1672
C-19	Circle trees	34	1:11 AM		x				X		68	8	31		2108
C-20	Slab Cypress	25			x				x		50		32		1600
C-21	Roses	19			X				X		38		31		1178
C-22									-		30	Ū	Ŭ.		
C-23														sum:	2414
C-24												time wei	ghted average r	oressure:	33.5
		131									262		J		
						mi	nute	s pe	r we	ek=	721				
										ek=					