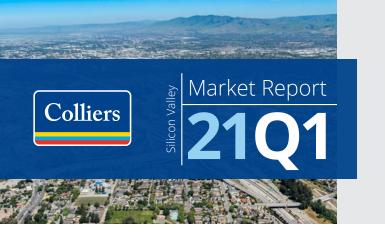


Several key office deliveries leased to big tech, **Google** and **Facebook**, drove the office market to **positive net absorption** for the first time since Q4 2019.



### **Key Takeaways**

- Overall commercial real estate vacancy rose to 6.9%, up 190 basis points year-over-year.
- Several key office deliveries leased to big tech, Google and Facebook, drove the office market to positive net absorption for the first time since Q4 2019.
- Across all tracked product types, Silicon Valley sublease market expanded to 9.5 million SF and represents 23.8% of total available space.
- R&D was the only property sector with occupancy losses in Q1 2021, totaling 543K SF.



Vacancy Rate 6.9%





Net Absorption





Under Construction





Office Class A Lease Rates (FS)





Office Lease Rates (FS)





**R&D** Lease Rates (NNN)





Rates (NNN)



### **Executive Summary**

Silicon Valley absorption remained negative in the first quarter of 2021. However, occupancy losses were the lowest since the start of the pandemic, down roughly 170,000 square feet across all product types. Gross absorption tallied 3.8 million square feet, however, preleased new deliveries accounted for 38.5 percent of quarterly deal volume.

### **Historic Comparison**

	20Q1	20Q4	21Q1
Total Inventory (in Thousands of SF)	354,141.4	356,075.2	358,098.7
New Supply (in Thousands of SF)	86.0	878.7	2,178.0
Net Absorption (in Thousands of SF)	(353.5)	(173.5)	(170.7)
Overall Vacancy (in Thousands of SF)	5.0%	6.5%	6.9%
Under Construction (in Thousands of SF)	14,241.5	10,841.4	9,990.9
Office Lease Rates (FS)	\$5.06	\$5.17	\$5.15
R&D, IND, WSE Rents (NNN)	\$2.04	\$2.20	\$2.17

### Market Indicators





Unemployment Rate Santa Clara County as of March 2021



**Market Graph** 



Overall market availability increased to 11.2%, up 280 basis points year-over-year while vacancy increased to 6.9%, up 190 basis points over the same period.

### **Recent Transactions**



Renewal 3400 Hillview Avenue Palo Alto | 208k SF



**Direct Deal** 44408 Pacific Commons Blvd. Fremont | 164k SF



**Direct Deal** 200-230 Railroad Avenue Milpitas | 130k SF



**Direct Deal** 355 E Trimble Road San Jose | 97k SF



**Direct Deal** 170 Baytech Drive San Jose | 76k SF



Renewal 1170 Kifer Road Sunnyvale | 58k SF



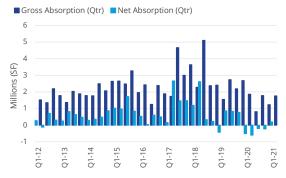
### Office

Silicon Valley's office leasing activity in the first quarter of 2021 remained quiet. While absorption finally bounced back to positive levels, the reason for the movement was not an uptick in new activity. Instead, occupancy gains in the first quarter are attributed directly to several new deliveries preleased to big tech companies. Despite the considerable progress made in slowing the spread of COVID-19, Santa Clara County health officials continue to encourage telework for non-essential employees, which is delaying the return to the office for many employers.

New office construction was the big story in the first quarter. Roughly 1.8 million square feet of new construction was added to Silicon Valley's office building base, levels not seen since Q2 2018, and 73.0 percent of this space was immediately absorbed due to expansion commitments made prior to the pandemic. In Sunnyvale, two 350,664-squarefoot buildings fully preleased to Facebook came online at Jay Paul's Moffett Towers II project. The deal, signed in Q1 2018, will see Facebook expand by some 1.1 million square feet in Sunnyvale's Moffett Park submarket. While Facebook was vocal about expanding their work-from-home policies, announcing that as much as half of its employees could work from home permanently, their appetite for Bay Area real estate has not dwindled. Furthermore, Facebook is the first big tech company in the Bay Area to announce a partial return to the office, which is slated for May 1st, 2021 at 10 percent capacity.

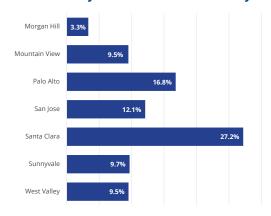
Additionally, three Google-preleased office buildings totaling some 611,000 square feet were delivered at Google's Brokaw campus in North San Jose. Google signed the deal with developer Peery Arrillaga in Q2 2019, when the demand for Silicon Valley office space was insatiable. The Google Brokaw campus is entitled for an additional 1.9 million square feet, allowing ample opportunity for expansion.

### Silicon Valley Office Net Absorption vs. Gross Absorption



Source: Colliers

### Office Availability Rates Select Silicon Valley Cities



Source: Colliers

Not all office developers were lucky enough to seal a deal prior to the pandemic. Five office buildings, totaling 486,000 square feet, were delivered as vacant space in the first quarter. These office buildings include the 173,472-square-foot 3655 Kifer Road in Santa Clara, the 125,000-square-foot 285 Sobrante Way in Sunnyvale and the 104,600-square-foot building 5 at Pathline Peery Park, located at 725 N Mary Ave in Sunnyvale.

Office vacancy continued its upward trajectory ending the quarter at 9.4 percent, up 350 basis points from Q1 2020. In

#### **Silicon Valley Office Rent vs. Vacancy**



Source: Colliers

addition to vacant new construction, the uncertainty caused by the pandemic and extended remote work trends saw some tenants shed space. As a result, the office sublease market expanded for the fourth consecutive quarter to 3.9 million square feet translating to a sublease availability rate of 3.5 percent. However, despite the rise in vacancy rates, direct average asking rents are holding firm at \$5.15 Full Service, up \$0.09 from Q1 2020.

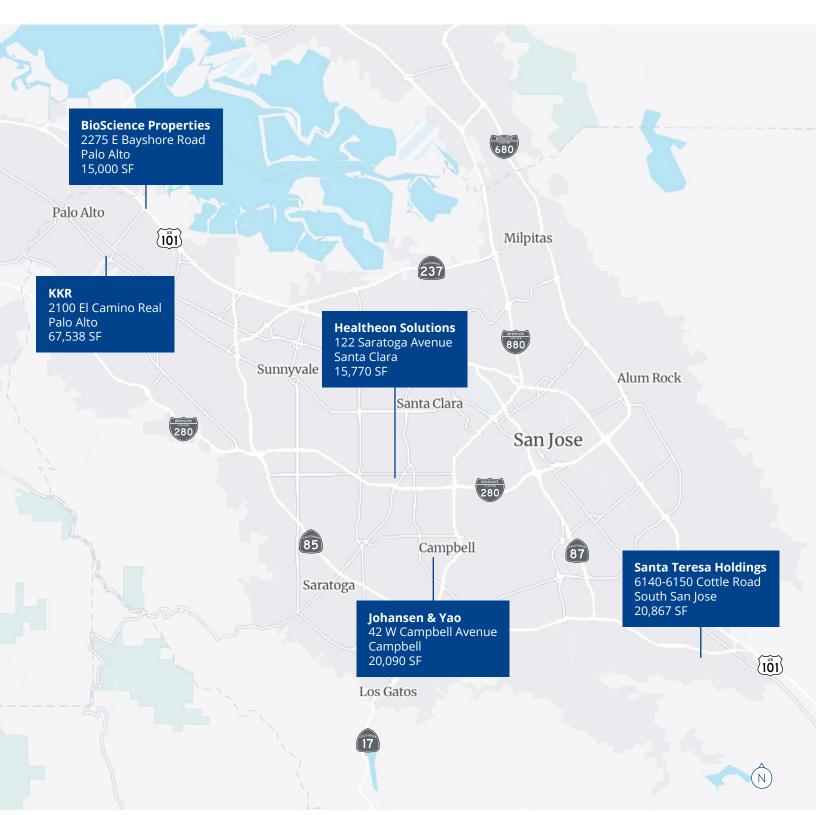


# **Significant Lease Activity**





# **Significant Sales Activity**





### R&D

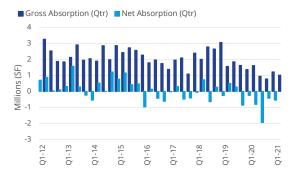
Demand for Silicon Valley R&D product remained strong in the first quarter of 2021, with more than 1.0 million square feet of new deals signed. While Silicon Valley's office market saw no new deals transact above 50,000 square feet, the R&D market saw six deals. The pandemic reenergized Silicon Valley's R&D market. Unlike office, most R&D space requirements did not dissipate or shift to a remote setting due to unique and specialized space requirements. In addition to not being deterred by teleworking trends, demand for life science space spilled over into Silicon Valley's R&D market further accelerating deal velocity.

The largest life science deal came from Ascend Clinical, a provider of dialysis laboratory testing, with a 92,820-square-foot lease at 435 Oakmead Parkway in Sunnyvale. Another major life science transaction includes Auris Surgical Robotics, a provider of endoscopy robotics, which inked a 76,000-square-foot lease at 170 Baytech Drive in North San Jose. Both companies are headquartered in Redwood City and as demand for biotechnology space heats up, the trend we are seeing is Peninsula-based companies looking south to Silicon Valley for expansion and relocation opportunities.

In addition to the emerging life science industry, Silicon Valley's R&D market continues to see activity from its breadand-butter semiconductor companies. The first quarter saw a 96,780-square-foot deal by Veeco Instruments take place at 355 Trimble Road in North San Jose and Lam Research signed a 62,181-square-foot lease at 4305 Cushing Parkway in Fremont.

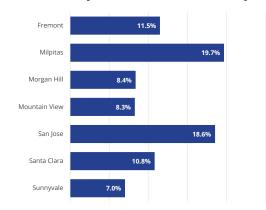
Despite an active quarter, the R&D market continues to see negative net absorption. Q1 2021 marked the sixth consecutive quarter of occupancy losses, which totaled more than 543,000 square feet. Several notable vacancies attributed to the dip in

#### Silicon Valley R&D Net Absorption vs. Gross Absorption



Source: Colliers

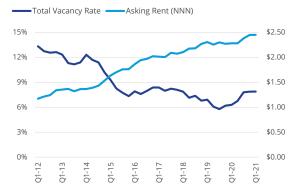
#### **R&D Availability Rates Select Silicon Valley Cities**



Source: Colliers

absorption, including TIBCO Software's 153,989-square-foot exit from 3301 Hillview Avenue, Infoblox's 129,594-square-foot departure from 3111 Coronado Drive in Santa Clara and ARM's 92,248-square-foot sublease space at 150 Rose Orchard Parkway in North San Jose. The R&D sublease market expanded once again and more that 4.2 million square feet of space is currently on the market, translating into a sublease availability rate of 3.0 percent.

#### Silicon Valley R&D Rent vs. Vacancy



Source: Colliers

The R&D market vacancy rate is 7.9 percent at the end of the first quarter of 2021, up 160 basis points from Q1 2020. This vacancy increase is significantly lower compared to the office market, which saw vacancy rates rise 350 basis points over the same period due to the work-from-home shift. While absorption remained negative, R&D average asking rates remain firm at \$2.45 NNN at the start of 2021, \$0.17 above O1 2020 rates.

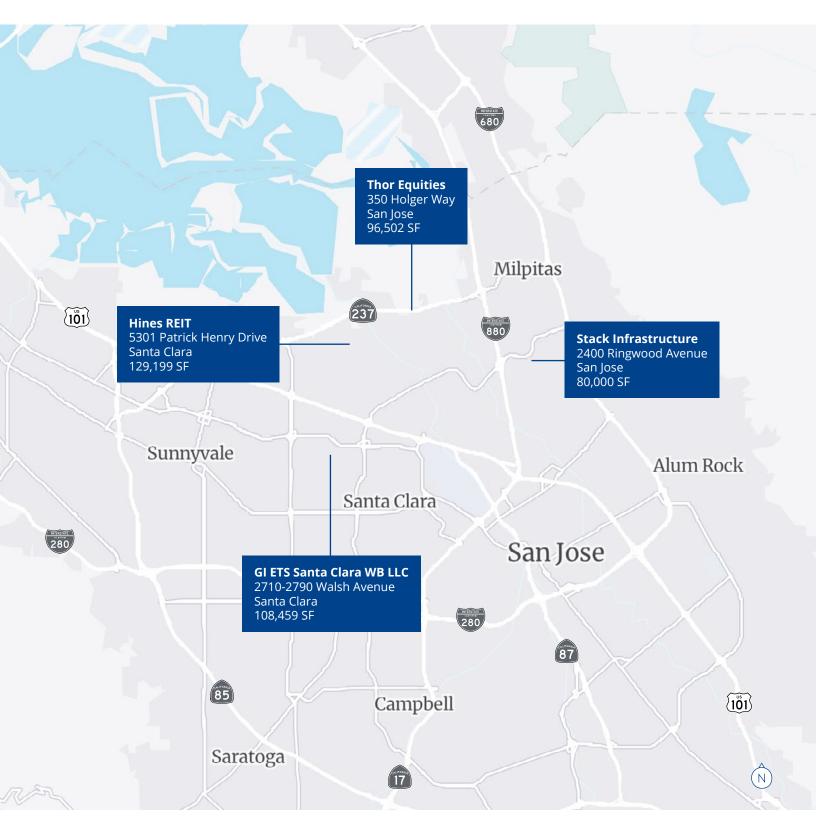


# **Significant Lease Activity**





# **Significant Sales Activity**





### Industrial/Warehouse

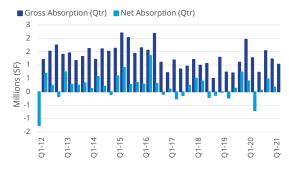
Momentum for Silicon Valley industrial product spilled over into 2021 with more 1.0 million square feet of new lease and user-sale transactions. However, compared to Q1 2020, quarterly gross absorption was down 19.2 percent. For the third consecutive quarter the market expanded as net absorption remained positive with 176,400 square feet. The pandemic accelerated demand for industrial and warehouse property as companies increased onshoring and adjusted supply models to accommodate consumer needs.

Once again, the largest transaction occurred at Pacific Commons South industrial complex in Fremont. Bloom Energy leased the entirety of the 164,293-square-foot building 5, located at 44408 Pacific Commons Boulevard. Bloom Energy joins Amazon, Cepheid and Facebook, all of which leased significant blocks of space in 2020 at the newly delivered industrial-warehouse complex.

The first quarter of 2021 did not see any Amazon transactions. In 2020, Amazon was the largest user taking Silicon Valley's industrial-warehouse space, totaling more than 1.5 million square feet. This figure includes both existing and future industrial product. It will be interesting to see if Amazon's appetite for Bay Area industrial space persists in 2021 or potentially taper after a record year.

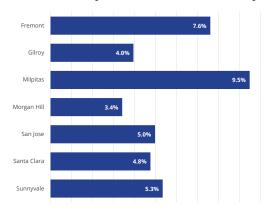
While the vacancy rate did increase 90 basis points year-over-year, at 3.2 percent tenant mobility remains constricted and only four new lease deals transacted above 50,000 square feet. The industrial sublease market expanded to nearly 1.5 million square feet, up 38.8 percent year-over-year. The largest sublease to enter the industrial market this quarter was Relectric Supply Company's 76,972-square-foot space

#### Silicon Valley IND/WSE Net Absorption vs. Gross Absorption



Source: Colliers

#### **IND/WSE Availability Rates Select Silicon Valley Cities**



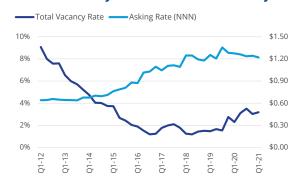
Source: Colliers

located at 2390 Zanker Road in North San Jose. The sublease availability rate, however, remains in check at just 1.4 percent, which indicates stability in the market.

Two industrial-warehouse developments were delivered vacant this quarter. The first was Duke Realty's 209,252-square-foot warehouse located at 48401 Fremont Boulevard and second was Piedmont Partners' 180,150-square-foot warehouse located at 1605 Industrial Avenue in the Berryessa market of San Jose.

Average asking rents decreased marginally in Q1 2021 to \$1.22 NNN, down \$0.05 compared to Q1 2020.

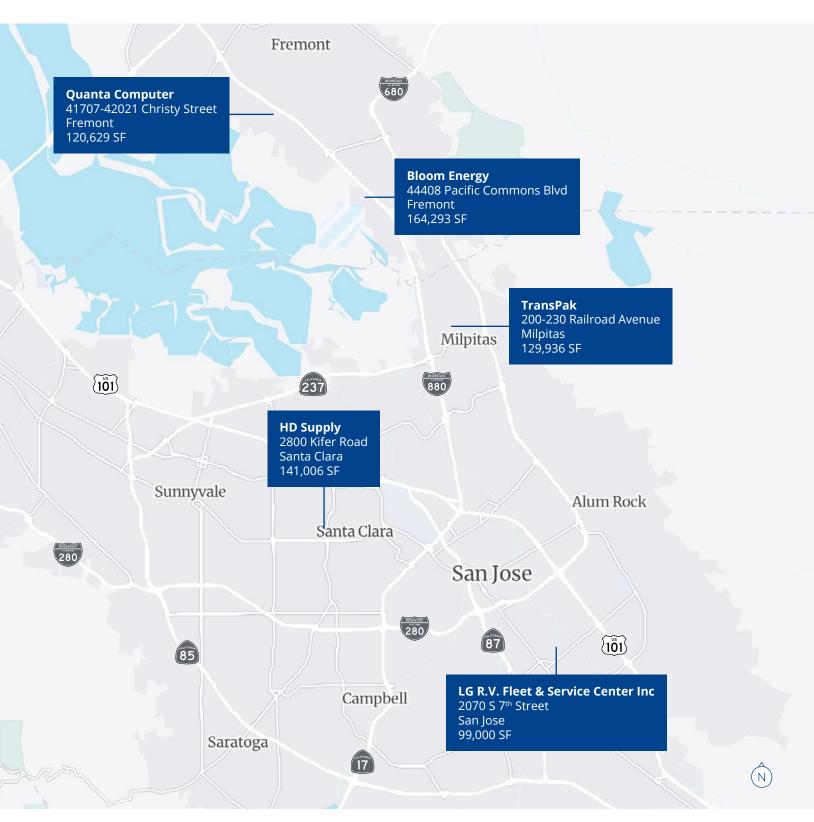
#### Silicon Valley IND/WSE Rent vs. Vacancy



Source: Colliers

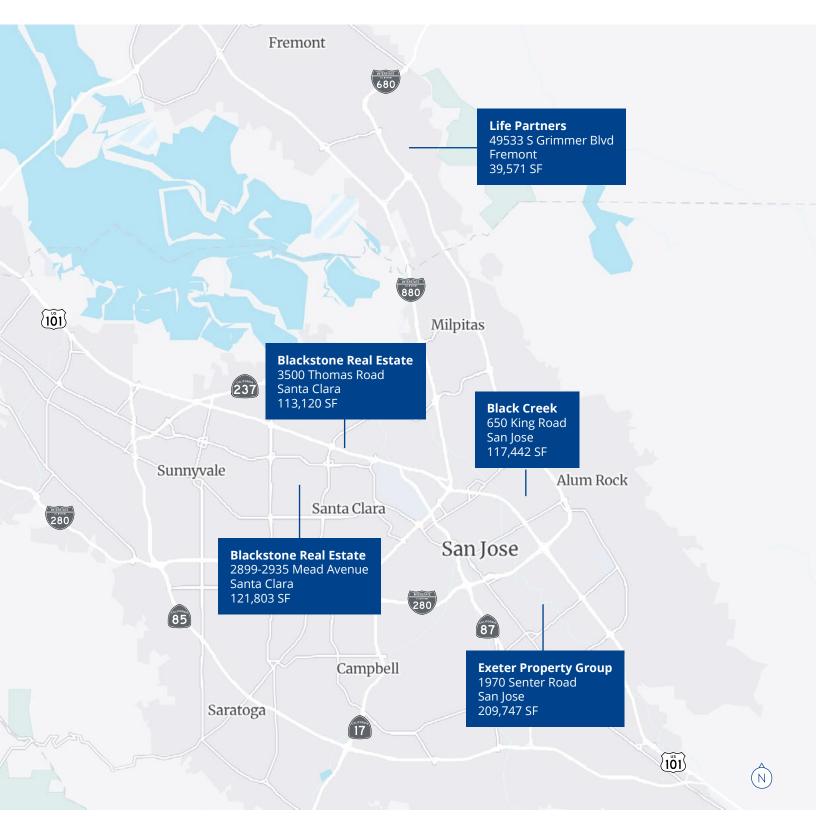


# **Significant Lease Activity**





# **Significant Sales Activity**



# Silicon Valley | 21Q1 | Office | Market Statistics



Submarket/ Class	Total Inventory SF	Direct Availability Rate	Sublease Availability Rate	Availability Rate	Vacancy Rate	Vacancy Rate Previous	Net Absorption Current	Net Absorption YTD	Under Construction	Deliveries YTD	Avg Direct Asking Rate (FSG)
Silicon Valley T	otals										
A	66,670,661	10.6%	4.3%	14.9%	9.6%	8.1%	576,159	576,159	8,320,173	1,788,597	\$5.59
В	34,691,768	10.8%	2.7%	13.4%	9.6%	9.0%	(286,400)	(286,400)	6,408	-	\$4.32
2	8,660,645	9.8%	0.8%	10.6%	7.1%	5.9%	(93,524)	(93,524)	244,788	-	\$4.07
TOTAL	110,023,074	10.6%	3.5%	14.1%	9.4%	8.2%	196,235	196,235	8,571,369	1,788,597	\$5.15
Campbell / Los	Gatos										
A	1,897,987	16.0%	4.6%	20.6%	10.0%	8.7%	(25,309)	(25,309)	11,677	-	\$4.78
3	2,346,972	11.6%	1.1%	12.7%	9.9%	9.5%	(12,811)	(12,811)	6,408	-	\$4.08
OTAL	244,849 4,489,808	6.3% 13.2%	0.0% 2.5%	6.3% 15.7%	6.3% 9.7%	5.2% 8.9%	(2,653)	(2,653)	18,085	<u>-</u>	\$2.99 \$4.45
							( -, -,	( -, -,	-,		
upertino / Sar	<b>4,417,681</b>	6.2%	0.2%	6.4%	1.9%	1.4%	(21,106)	(21,106)	_	_	\$6.56
	2,864,993	4.7%	3.0%	7.7%	5.8%	5.2%	(19,518)	(19,518)	-	-	\$4.83
	188,496	5.0%	0.0%	5.0%	3.6%	5.1%	(13,310)	(15,510)	_	_	\$3.83
OTAL	7,471,170	5.6%	1.3%	6.9%	3.4%	3.0%	(40,624)	(40,624)	-	-	\$6.00
remont / Milpi	itas										
remont / Milipi	810,633	14.0%	5.7%	19.6%	13.3%	7.4%	(53,020)	(53,020)			\$2.46
	1,793,014	7.7%	4.3%	12.0%	10.7%	8.1%	(46,820)	(46,820)	-		\$2.40
	581,654	9.5%	0.0%	9.5%	5.6%	5.6%	(40,020)	(40,020)	-	-	\$1.30
OTAL	3,185,301	9.6%	3.9%	13.5%	10.4%	7.5%	(99,840)	(99,840)	-	-	\$2.47
ilvov / Morga	a Will										
ilroy / Morgar	418,595	1.0%	0.0%	1.0%	1.0%	0.7%	(1,340)	(1,340)	-	-	\$2.84
	442,665	0.9%	0.0%	0.9%	0.9%	0.9%	-	-	-	-	\$1.82
	270,933	9.3%	0.0%	9.3%	9.3%	9.6%	897	897	-	-	\$-
OTAL	1,132,193	3.0%	0.0%	3.0%	3.0%	2.9%	(443)	(443)	-	-	\$2.04
os Altos											
	320,267	11.8%	1.0%	12.8%	5.8%	3.8%	(6,354)	(6,354)	-	-	\$7.63
	510,931	18.3%	5.1%	23.4%	19.9%	19.3%	(14,389)	(14,389)	-	-	\$4.82
	375,030	7.4%	2.4%	9.8%	6.5%	3.5%	(10,918)	(10,918)	-	-	\$5.44
OTAL	1,206,228	13.2%	3.2%	16.4%	12.0%	10.3%	(31,661)	(31,661)	-	-	\$5.71
lountain View											
	5,668,997	5.6%	3.4%	9.0%	5.2%	5.0%	(14,864)	(14,864)	2,338,000	-	\$6.80
	1,376,919	8.3%	4.2%	12.4%	6.0%	3.8%	(31,534)	(31,534)	-	-	\$6.77
OTAL	454,578 7,500,494	6.6%	0.9% 3.4%	7.5% 9.5%	5.1%	0.5% 4.5%	(20,300)	(20,300)	244,788 2,582,788	-	\$4.69 \$6.68
	, , , , , ,						(,,	(==,===,	,,		
alo Alto	6,808,839	15.9%	4.1%	20.0%	16.0%	11.9%	(247,030)	(247,030)		72,662	\$8.77
			4.1%					, , ,	-	72,002	\$7.79
	4,490,556 1,911,263	7.3% 14.6%	2.5%	11.9% 17.1%	8.8% 8.2%	7.8% 4.7%	(77,934) (42,616)	(77,934) (42,616)	-	-	\$7.79
OTAL	13,210,658	12.8%	4.0%	16.8%	12.4%	9.5%	(367,580)	(367,580)	-	72,662	\$8.49
an Jose	17,928,068	10.7%	4.3%	15.0%	8.8%	8.8%	550,379	550,379	2,818,073	611,535	\$4.35
	14,081,323	8.0%	1.0%	8.9%	6.7%	6.3%	(77,642)	(77,642)	-	-	\$3.83
	3,782,139	9.9%	0.3%	10.2%	8.3%	8.2%	(16,178)	(16,178)	-	_	\$3.19
OTAL	35,791,530	9.6%	2.5%	12.1%	7.9%	7.7%	456,559	456,559	2,818,073	611,535	\$4.09
anta Clara											
anta ciara	10,886,703	16.3%	10.9%	27.1%	15.9%	11.9%	(277,056)	(277,056)	1,385,790	173,472	\$4.46
	5,178,530	23.3%	5.9%	29.2%	18.8%	19.0%	(8,045)	(8,045)	-	-	\$3.57
	432,032	5.0%	0.0%	5.0%	2.8%	2.6%	(986)	(986)	-	-	\$2.54
OTAL	16,497,265	18.2%	9.0%	27.2%	16.5%	13.9%	(286,087)	(286,087)	1,385,790	173,472	\$4.18
unnyvale											
	17,512,891	7.2%	1.7%	8.9%	7.5%	6.3%	671,859	671,859	1,766,633	930,928	\$6.51
	1,605,865	19.8%	0.8%	20.6%	14.6%	14.7%	2,293	2,293	-	-	\$4.96
OTAL	419,671	2.2%	0.0%	2.2%	2.2%	2.0%	(770)	(770)	1 760 022	- 020.020	\$2.74
OTAL	19,538,427	8.1%	1.6%	9.7%	7.9%	6.9%	673,382	673,382	1,766,633	930,928	\$6.21
	uarterly Compar			4			4	4222	0.551.4	4 = 22 = 1	
101	110,023,074	10.6%	3.5%	14.1%	9.4%	8.2%	196,235	196,235	8,571,369	1,788,597	\$5.15
								(1,522,476)	0 505 015	2 005 022	\$5.17
1Q1 10Q4	107,997,801	9.5%	3.2%	12.7%	8.2%	7.4%	(221,984)		9,586,846	2,085,832	
20Q4 20Q3	107,178,603	8.6%	3.0%	11.6%	7.4%	6.5%	(197,670)	(1,300,492)	10,773,290	1,289,388	\$5.09

# Silicon Valley | 21Q1 | R&D & Industrial/Warehouse | Market Statistics



Class         Inventor           Silicon Valley Totals         R&D         139,845           R&D         64,006         49,006           WSE         44,223         40,006           TOTAL         248,075         248,075           Campbell         R&D         1,357,           R&D         1,042,         491,           WSE         92,1         707AL           Cupertino         R&D         2,952,           IND         7,91         WSE           TOTAL         2,960,         Fremont           R&D         20,660         IND           IND         9,791,         WSE         11,407           TOTAL         41,859         Gilroy         R&D         378,0           IND         1,882,         WSE         3,848,         TOTAL         6,108,           Los Gatos         R&D         3,41,6         6,108,         Los Gatos           R&D         341,6         16,00         TOTAL         428,1           MSE         16,00         TOTAL         428,1           MID         70,55         MS         13,651           IND         2,873,         WSE         5,646,     <	Total entory SF 9,845,668	Dire	ect Sublease			Vacancy	Net	Net			Avg Direct
R&D 139,845 IND 64,006 WSE 44,223 TOTAL 248,075  Campbell R&D 1,357, IND 1,042, WSE 92,11 TOTAL 2,491,  Cupertino R&D 2,952, IND 7,91 WSE - TOTAL 2,960, Fremont R&D 20,660 IND 9,791, WSE 11,407 TOTAL 41,859  Gilroy R&D 378,0 IND 1,882, WSE 3,848, TOTAL 6,108, Los Gatos R&D 341,6 IND 70,51 IND 70,51 IND 70,51 IND 70,51 IND 2,873, WSE 16,00 TOTAL 428,1  Milpitas R&D 13,651 IND 2,873, WSE 5,646, TOTAL 22,170  Morgan Hill R&D 2,882, IND 2,548, WSE 985,9 TOTAL 14,581  Mountain View R&D 12,860 IND 1,721, WSE 70TAL 14,581  Mountain View R&D 12,860 IND 1,721, WSE 70TAL 14,581  Palo Alto R&D 6,047, IND 1,236, WSE 83,99 TOTAL 7,367,  San Jose R&D 40,494 IND 25,294 IND 25,294 IND 25,294 IND 25,294 IND 17,320 TOTAL 83,109  Santa Clara R&D 19,287				Availability Rate	Vacancy Rate	Rate Previous	Absorption Current	Absorption YTD	Under Construction	Deliveries YTD	Asking Rate (NNN)
IND	9,845,668										
WSE				13.2%	7.9%	7.9%	(543,328)	(543,328)	7,002	-	\$2.45
TOTAL 248,075  Campbell  R&D 1,357, IND 1,042, WSE 92,11  TOTAL 2,491,  Cupertino  R&D 2,952, IND 7,911  WSE - TOTAL 2,960, Fremont  R&D 20,660 IND 9,791, WSE 11,407  TOTAL 41,859  Gilroy  R&D 378,0 IND 1,882, WSE 3,848, TOTAL 6,108, Los Gatos  R&D 341,6 IND 70,5: WSE 16,0 IND 70,5: WSE 16,0 IND 2,873, WSE 5,646, TOTAL 22,170  Morgan Hill  R&D 2,882, IND 2,548, WSE 985,9  TOTAL 6,416,  Mountain View  R&D 12,860 IND 1,721, WSE - TOTAL 14,581  Palo Alto  R&D 1,860 IND 1,721, WSE - TOTAL 14,581  Palo Alto  R&D 1,867, IND 1,236, WSE 38,985,9  TOTAL 14,581  Palo Alto  R&D 1,236, IND 1,236, IN	1,006,952			4.2%	2.3%	2.2%	(128,294)	(128,294)	461,230	-	\$1.26
Campbell R&D 1,357, IND 1,042, WSE 92,1- TOTAL 2,491, Cupertino R&D 2,952, IND 7,91 WSE TOTAL 2,960, Fremont R&D 20,660 IND 9,791, WSE 11,407 TOTAL 41,859 Gilroy R&D 378,0 IND 1,882, WSE 3,848, TOTAL 6,108, Los Gatos R&D 341,6 IND 70,5: WSE 16,0 TOTAL 428,1 Milpitas R&D 13,651 IND 2,873, WSE 5,646, TOTAL 22,170 Morgan Hill R&D 2,882, IND 2,548, WSE 985,9 TOTAL 6,416, Mountain View R&D 1,721, WSE TOTAL 14,581 Palo Alto R&D 6,047, IND 1,236, WSE 3,995,9 TOTAL 14,581 Palo Alto R&D 6,047, IND 1,236, WSE 83,99 TOTAL 7,367, San Jose R&D 40,494 WSE 17,320 TOTAL 83,109 Santa Clara R&D 19,287				8.1%	4.4%	4.2%	304,728	304,728	951,306	389,402	\$1.19 \$2.17
R&D 1,357, IND 1,042, WSE 92,1: TOTAL 2,491, Cupertino R&D 2,952, IND 7,91 WSE - TOTAL 2,960, Fremont R&D 20,660 IND 9,791, WSE 11,407 TOTAL 41,859 Gilroy R&D 378,0 IND 1,882, WSE 3,848, TOTAL 6,108, Los Gatos R&D 341,6 IND 70,5: WSE 16,00 TOTAL 428,1 MIDIAS R&D 13,651 IND 2,873, WSE 5,646, TOTAL 22,170 Morgan Hill R&D 2,882, IND 2,548, WSE 985,5 TOTAL 6,416, Mountain View R&D 12,860 IND 1,721, WSE - TOTAL 14,581 Palo Alto R&D 1,236, IND 1,236, IN	8,075,052	75,652 7.6	% 2.3%	9.9%	5.8%	5.8%	(366,894)	(366,894)	1,419,538	389,402	<b>⊅</b> ∠.17
IND											
WSE   92,1     TOTAL   2,491,     Cupertino   R&D   2,952,     IND   7,91     WSE   -	,357,180			10.8%	8.2%	7.5%	(14,616)	(14,616)	7,002	-	\$2.44
TOTAL 2,491,  Cupertino  R&D 2,952, IND 7,91  WSE - TOTAL 2,960,  Fremont  R&D 20,660 IND 9,791, WSE 11,407  TOTAL 41,859  Gilroy  R&D 378,0 IND 1,882, WSE 3,848, TOTAL 6,108, Los Gatos  R&D 341,6,108, Los Gatos  R&D 13,651 IND 2,873, WSE 16,00 TOTAL 22,170  Morgan Hill  R&D 2,882, IND 2,548, WSE 985,9 TOTAL 6,416, Mountain View  R&D 12,860 IND 1,721, WSE 7 TOTAL 14,581  Palo Alto  R&D 6,047, IND 1,236, WSE 83,99 TOTAL 7,367,  San Jose  R&D 40,494  WSE 17,320  TOTAL 8,3109  Santa Clara  R&D 19,287				4.1% 0.0%	2.4% 0.0%	2.6%	1,933	1,933	-	-	\$1.75 \$-
Cupertino   R&D   2,952,   IND   7,91   WSE   - TOTAL   2,960,   Fremont   R&D   20,660   IND   9,791,   WSE   11,407   TOTAL   41,859   Gilroy   R&D   378,0   IND   1,882,   WSE   3,848,   TOTAL   6,108,   Los Gatos   R&D   341,6   IND   70,53   WSE   16,00   TOTAL   428,1   Milpitas   R&D   13,651   IND   2,873,   WSE   5,646,   TOTAL   22,170   Morgan Hill   R&D   2,882,   IND   2,548,   WSE   985,5   TOTAL   6,416,   Mountain View   R&D   12,860   IND   1,721,   WSE   - TOTAL   14,581   Palo Alto   R&D   6,047,   IND   1,236,   WSE   83,99   TOTAL   7,367,   San Jose   R&D   40,494   IND   25,294   WSE   17,320   TOTAL   83,109   Santa Clara   R&D   19,287   Santa Clar				7.6%	5.5%	5.2%	(12,683)	(12,683)	7,002		\$2.40
R&D 2,952, IND 7,91 WSE - TOTAL 2,960, Fremont R&D 20,660 IND 9,791, WSE 11,407 TOTAL 41,859  Gilroy R&D 378,0 IND 1,882, WSE 3,848, TOTAL 6,108, Los Gatos R&D 341,6 IND 70,5: WSE 16,0: TOTAL 428,1 Milpitas R&D 13,651 IND 2,873, WSE 5,646, TOTAL 22,170 Morgan Hill R&D 2,882, IND 2,548, WSE 985,9 TOTAL 6,416, MOUNTAIN 1,236, IND 1,236, WSE - TOTAL 14,581  Palo Alto R&D 6,047, IND 1,236, WSE 83,9: TOTAL 7,367, San Jose R&D 40,494 IND 25,294 WSE 17,320 TOTAL 83,109  Santa Clara R&D 19,287	,431,303	7.0	70 0.070	7.070	5.570	5.270	(12,003)	(12,003)	7,002		¥2.40
INID	052.425	2.425	0/ 0.40/	1 40/	0.00/	0.70/	(6,633)	(6,633)			¢2.45
WSE				1.4% 0.0%	0.9%	0.7%	(6,622)	(6,622)	-	-	\$3.15 \$-
TOTAL 2,960,  Fremont  R&D 20,660 IND 9,791, WSE 11,407 TOTAL 41,859  Gilroy R&D 378,0 IND 1,8822, WSE 3,848, TOTAL 6,108,  Los Gatos R&D 341,6 IND 70,5; WSE 16,00 TOTAL 428,1  Milpitas R&D 13,651 IND 2,873, WSE 5,646, TOTAL 22,170  Morgan Hill R&D 2,882, IND 2,548, WSE 985,5  TOTAL 6,416,  Mountain View R&D 12,860 IND 1,721, WSE - TOTAL 14,581  Palo Alto R&D 6,047, IND 1,236, WSE 83,99 TOTAL 7,367,  San Jose R&D 40,494 IND 25,294 WSE 17,320 TOTAL 83,109  Santa Clara R&D 19,287	-	- 0.0		0.0%	0.0%	0.0%	-	-	-	-	\$-
R&D 20,660 IND 9,791, WSE 11,407 TOTAL 41,859  Gilroy R&D 378,0 IND 1,882, WSE 3,848, TOTAL 6,108,  Los Gatos R&D 341,6 IND 70,5; WSE 16,00 TOTAL 428,1  Milpitas R&D 13,651 IND 2,873, WSE 5,646, TOTAL 22,170  Morgan Hill R&D 2,882, IND 2,548, WSE 985,5 TOTAL 6,416,  Mountain View R&D 12,860 IND 1,721, WSE - TOTAL 14,581  Palo Alto R&D 6,047, IND 1,236, WSE 83,99 TOTAL 7,367,  San Jose R&D 40,494 IND 25,294 WSE 17,320 TOTAL 83,109  Santa Clara R&D 19,287	,960,354			1.4%	0.9%	0.7%	(6,622)	(6,622)	-	-	\$3.15
R&D 20,660 IND 9,791, WSE 11,407 TOTAL 41,859  Gilroy R&D 378,0 IND 1,882, WSE 3,848, TOTAL 6,108,  Los Gatos R&D 341,6 IND 70,5; WSE 16,00 TOTAL 428,1  Milpitas R&D 13,651 IND 2,873, WSE 5,646, TOTAL 22,170  Morgan Hill R&D 2,882, IND 2,548, WSE 985,5 TOTAL 6,416,  Mountain View R&D 12,860 IND 1,721, WSE - TOTAL 14,581  Palo Alto R&D 6,047, IND 1,236, WSE 83,99 TOTAL 7,367,  San Jose R&D 40,494 IND 25,294 WSE 17,320 TOTAL 83,109  Santa Clara R&D 19,287											
IND	1 660 903	60,903 10.:	3% 1.2%	11.5%	6.8%	7.0%	(39,554)	(39,554)	_	-	\$1.55
WSE	,791,807			6.1%	2.2%	1.8%	(37,696)	(37,696)	-	-	\$0.98
TOTAL 41,859  Gilroy  R&D 378,0  IND 1,882, WSE 3,848, TOTAL 6,108,  Los Gatos  R&D 341,6  IND 70,5;  WSE 16,00  TOTAL 428,1  Milpitas  R&D 13,651  IND 2,873, WSE 5,646, TOTAL 22,170  Morgan Hill  R&D 2,882, IND 2,548, WSE 985,9  TOTAL 6,416, MOUNTAIN VIEW  R&D 12,860  IND 1,721, WSE - TOTAL 14,581  Palo Alto  R&D 6,047, IND 1,236, WSE 83,99  TOTAL 7,367,  San Jose  R&D 40,494  IND 25,294  WSE 17,320  TOTAL 83,109  Santa Clara  R&D 19,287	,407,073			8.9%	6.4%	6.3%	184,093	184,093	476,894	209,252	\$1.17
R&D 378,0 IND 1,882, WSE 3,848, TOTAL 6,108, Los Gatos R&D 341,6 IND 70,5: WSE 16,00 TOTAL 428,1 Milpitas R&D 13,651 IND 2,873, WSE 5,646, TOTAL 22,170 Morgan Hill R&D 2,882, IND 2,548, WSE 985,9 TOTAL 6,416, Mountain View R&D 12,860 IND 1,721, WSE - TOTAL 14,581 Palo Alto R&D 6,047, IND 1,236, WSE 83,99 TOTAL 7,367, San Jose R&D 40,494 IND 25,294 WSE 17,320 TOTAL 83,109 Santa Clara R&D 19,287	1,859,783			9.5%	5.6%	5.6%	106,843	106,843	476,894	209,252	\$1.36
R&D 378,0 IND 1,882, WSE 3,848, TOTAL 6,108, Los Gatos R&D 341,6 IND 70,5: WSE 16,00 TOTAL 428,1 Milpitas R&D 13,651 IND 2,873, WSE 5,646, TOTAL 22,170 Morgan Hill R&D 2,882, IND 2,548, WSE 985,9 TOTAL 6,416, Mountain View R&D 12,860 IND 1,721, WSE - TOTAL 14,581 Palo Alto R&D 6,047, IND 1,236, WSE 83,99 TOTAL 7,367, San Jose R&D 40,494 IND 25,294 WSE 17,320 TOTAL 83,109 Santa Clara R&D 19,287											
IND	378,009	3,009 12.	9% 0.0%	12.9%	1.6%	1.6%	-	-	-		\$0.95
WSE   3,848,   TOTAL   6,108,   Los Gatos   R&D   341,6   IND   70,5;   WSE   16,00   TOTAL   428,1   Milpitas   R&D   13,651   IND   2,873,   WSE   5,646,   TOTAL   22,170   Morgan Hill   R&D   2,882,   IND   2,548,   WSE   985,5   TOTAL   6,416,   Mountain View   R&D   12,860   IND   1,721,   WSE   - TOTAL   14,581   Palo Alto   R&D   6,047,   IND   1,236,   WSE   83,9   TOTAL   7,367,   San Jose   R&D   40,494   IND   25,294   WSE   17,320   TOTAL   83,109   Santa Clara   R&D   19,287   Canada   Canada   R&D   19,287   Canada   Canada   Canada   R&D   19,287   Canada	,882,367			2.0%	0.9%	0.9%	-	-	11,154	-	\$-
Los Gatos   R&D   341,6     IND   70,5;     WSE   16,00     TOTAL   428,1     Milpitas   R&D   13,651     IND   2,873,     WSE   5,646,     TOTAL   22,170     Morgan Hill     R&D   2,882,     IND   2,548,     WSE   985,5     TOTAL   6,416,     Mountain View     R&D   12,860     IND   1,721,     WSE   - TOTAL   14,581     Palo Alto   R&D   6,047,     IND   1,236,     WSE   83,9     TOTAL   7,367,     San Jose   R&D   40,494     IND   25,294     WSE   17,320     TOTAL   83,109     Santa Clara   R&D   19,287	,848,351			4.9%	0.7%	0.7%	÷	-	-	÷	\$0.71
R&D 341,6 IND 70,5: WSE 16,00 TOTAL 428,1 Milpitas R&D 13,651 IND 2,873, WSE 5,646, TOTAL 22,170 Morgan Hill R&D 2,882, IND 2,548, WSE 985,5 TOTAL 6,416, Mountain View R&D 12,860 IND 1,721, WSE - TOTAL 14,581 Palo Alto R&D 6,047, IND 1,236, WSE 83,9 TOTAL 7,367, San Jose R&D 40,494 IND 25,294 WSE 17,320 TOTAL 83,109 Santa Clara R&D 19,287	,108,727	18,727 4.5	% 0.0%	4.5%	0.8%	0.8%	-	-	11,154	-	\$0.73
R&D 341,6 IND 70,5: WSE 16,00 TOTAL 428,1 Milpitas R&D 13,651 IND 2,873, WSE 5,646, TOTAL 22,170  Morgan Hill R&D 2,882, IND 2,548, WSE 985,5 TOTAL 6,416,  Mountain View R&D 12,860 IND 1,721, WSE - TOTAL 14,581  Palo Alto R&D 6,047, IND 1,236, WSE 83,9 TOTAL 7,367, San Jose R&D 40,494 IND 25,294 WSE 17,320 TOTAL 83,109  Santa Clara R&D 19,287											
IND	341,622	1,622 17.	2% 0.0%	17.2%	17.2%	17.2%	-	-	-	-	\$2.28
TOTAL 428,1  Milpitas  R&D 13,651  IND 2,873, WSE 5,646, TOTAL 22,170  Morgan Hill  R&D 2,882, IND 2,548, WSE 985,9  TOTAL 6,416,  Mountain View  R&D 12,860  IND 1,721, WSE - TOTAL 14,581  Palo Alto  R&D 6,047, IND 1,236, WSE 83,99  TOTAL 7,367,  San Jose  R&D 40,494  IND 25,294  WSE 17,320  TOTAL 83,109  Santa Clara  R&D 19,287	70,536			32.2%	13.4%	15.6%	-	-	-	-	\$1.60
Milpitas   R&D	16,000	,000 0.0	% 0.0%	0.0%	0.0%	0.0%	-	-	-	-	\$-
R&D 13,651 IND 2,873, WSE 5,646, TOTAL 22,170  Morgan Hill R&D 2,882, IND 2,548, WSE 985,9 TOTAL 6,416,  Mountain View R&D 12,860 IND 1,721, WSE - TOTAL 14,581  Palo Alto R&D 6,047, IND 1,236, WSE 83,99 TOTAL 7,367, San Jose R&D 40,494 IND 25,294 IND 25,294 WSE 17,320 TOTAL 83,109  Santa Clara R&D 19,287	428,158	3,158 16.	3% 2.2%	19.0%	15.9%	16.3%	-	-	-	-	\$2.01
R&D 13,651 IND 2,873, WSE 5,646, TOTAL 22,170  Morgan Hill R&D 2,882, IND 2,548, WSE 985,9 TOTAL 6,416,  Mountain View R&D 12,860 IND 1,721, WSE - TOTAL 14,581  Palo Alto R&D 6,047, IND 1,236, WSE 83,99 TOTAL 7,367, San Jose R&D 40,494 IND 25,294 IND 25,294 WSE 17,320 TOTAL 83,109  Santa Clara R&D 19,287											
IND	3,651,710	51,710 16.3	3% 3.4%	19.7%	12.9%	13.7%	8,691	8,691	-	-	\$2.36
TOTAL 22,170  Morgan Hill  R&D 2,882, IND 2,548, WSE 985,9  TOTAL 6,416,  Mountain View  R&D 12,860 IND 1,721, WSE - TOTAL 14,581  Palo Alto  R&D 6,047, IND 1,236, WSE 83,99  TOTAL 7,367,  San Jose  R&D 40,494 IND 25,294 WSE 17,320 TOTAL 83,109  Santa Clara  R&D 19,287	,873,143			4.1%	1.5%	1.4%	(1,561)	(1,561)	-	-	\$-
Morgan Hill   R&D   2,882,   IND   2,548,   WSE   985,5   TOTAL   6,416,   Mountain View   R&D   12,860   IND   1,721,   WSE   - TOTAL   14,581   Palo Alto   R&D   6,047,   IND   1,236,   WSE   83,9   TOTAL   7,367,   San Jose   R&D   40,494   IND   25,294   WSE   17,320   TOTAL   83,109   Santa Clara   R&D   19,287	,646,007	6,007 7.2	% 5.0%	12.3%	6.2%	5.9%	(18,165)	(18,165)	388,240	÷	\$1.19
R&D 2,882, IND 2,548, WSE 985,9 TOTAL 6,416, Mountain View R&D 12,860 IND 1,721, WSE - TOTAL 14,581  Palo Alto R&D 6,047, IND 1,236, WSE 83,9 TOTAL 7,367,  San Jose R&D 40,494 IND 25,294 WSE 17,320 TOTAL 83,109  Santa Clara R&D 19,287	2,170,860	70,860 12.	1% 3.4%	15.8%	9.7%	10.1%	(11,035)	(11,035)	388,240	-	\$2.18
R&D         2,882, IND           1ND         2,548, WSE           985,9         985,9           TOTAL         6,416, Mountain View           R&D         12,860 IND           IND         1,721, WSE           -         -           TOTAL         14,581           Palo Alto         R&D           R&D         6,047, IND           IND         1,236, WSE           RS,99         TOTAL           TOTAL         7,367,           San Jose         R&D           R&D         40,494           IND         25,294           WSE         17,320           TOTAL         83,109           Santa Clara         R&D           R&D         19,287											
WSE         985,2           TOTAL         6,416,           Mountain View         R&D         12,860           IND         1,721,         WSE         -           TOTAL         14,581         Palo Alto         R&D         6,047,           IND         1,236,         WSE         83,9         TOTAL         7,367,           San Jose         R&D         40,494         IND         25,294         WSE         17,320           TOTAL         83,109         Santa Clara         R&D         19,287	,882,175	32,175 6.9	% 1.5%	8.4%	5.2%	5.2%	-	-	-	-	\$0.73
TOTAL 6,416,  Mountain View R&D 12,860 IND 1,721, WSE - TOTAL 14,581  Palo Alto R&D 6,047, IND 1,236, WSE 83,9 TOTAL 7,367,  San Jose R&D 40,494 IND 25,294 WSE 17,320 TOTAL 83,109  Santa Clara R&D 19,287	,548,143	18,143 4.7	% 0.0%	4.7%	2.0%	2.0%	-	-	450,076	-	\$1.25
Mountain View   R&D	985,938			0.0%	0.0%	15.2%	150,000	150,000	86,172	-	\$-
R&D 12,860 IND 1,721, WSE - TOTAL 14,581  Palo Alto R&D 6,047, IND 1,236, WSE 83,9 TOTAL 7,367,  San Jose R&D 40,494 IND 25,294 WSE 17,320 TOTAL 83,109  Santa Clara R&D 19,287	,416,256	6,256 5.0	% 0.7%	5.7%	3.1%	5.5%	150,000	150,000	536,248	-	\$0.88
IND											
WSE - TOTAL 14,581  Palo Alto R&D 6,047, IND 1,236, WSE 83,99 TOTAL 7,367,  San Jose R&D 40,494 IND 25,294 WSE 17,320 TOTAL 83,109  Santa Clara R&D 19,287	2,860,519	60,519 5.2	% 3.1%	8.3%	5.1%	5.2%	(55,431)	(55,431)	-	-	\$4.60
TOTAL 14,581  Palo Alto  R&D 6,047, IND 1,236, WSE 83,99  TOTAL 7,367,  San Jose  R&D 40,494 IND 25,294 WSE 17,320  TOTAL 83,109  Santa Clara  R&D 19,287	,721,311			5.8%	4.6%	4.2%	(4,800)	(4,800)	-	-	\$3.07
Palo Alto           R&D         6,047,           IND         1,236,           WSE         83,9           TOTAL         7,367,           San Jose         R&D           R&D         40,494           IND         25,294           WSE         17,320           TOTAL         83,109           Santa Clara         R&D           R&D         19,287				0.0%	0.0%	0.0%		-	-	-	\$-
R&D 6,047, IND 1,236, WSE 83,9 TOTAL 7,367,  San Jose R&D 40,494 IND 25,294 WSE 17,320 TOTAL 83,109  Santa Clara R&D 19,287	1,581,830	81,830 5.1	% 2.9%	8.0%	5.1%	5.0%	(60,231)	(60,231)	-	-	\$4.52
IND											
WSE 83,91 TOTAL 7,367,  San Jose  R&D 40,494 IND 25,294 WSE 17,320 TOTAL 83,109  Santa Clara  R&D 19,287	,047,293			13.5%	7.9%	4.5%	(207,659)	(207,659)	-	-	\$5.98
TOTAL 7,367,  San Jose  R&D 40,494  IND 25,294  WSE 17,320  TOTAL 83,109  Santa Clara  R&D 19,287	,236,144			5.8%	2.5%	2.4%	(1,800)	(1,800)	-	-	\$3.19
San Jose       R&D     40,494       IND     25,294       WSE     17,320       TOTAL     83,109       Santa Clara     R&D       19,287	83,994			0.0%	0.0%	0.0%	- (200, 450)	(207.650)	-	-	\$-
R&D 40,494 IND 25,294 WSE 17,320 TOTAL 83,109 Santa Clara R&D 19,287	,367,431	57,431 3.5	% 8.6%	12.0%	6.9%	4.1%	(209,459)	(207,659)	-	-	\$5.35
IND 25,294 WSE 17,320 TOTAL 83,109 Santa Clara R&D 19,287											
WSE         17,320           TOTAL         83,109           Santa Clara         19,287	),494,261			18.6%	11.2%	11.1%	(246,583)	(246,583)	-	-	\$2.21
TOTAL         83,109           Santa Clara         19,287				4.0%	2.8%	2.8%	(26,243)	(26,243)	-	-	\$1.11
Santa Clara R&D 19,287	7,320,195			6.5%	7.2%	3.2% 6.9%	(272,826)	(272,826)	-	180,150 180,150	\$1.20 \$2.00
<b>R&amp;D</b> 19,287	,,102,110	0.0	7.0 3.070	11.070	/.∠70	0.570	(2/2,020)	( < / < , < < 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0 /		100,130	₽∠,∪∪
	207 11	07.445	0/				/===::	/===			
1 11.600	9,287,415			10.8%	7.5%	7.5%	(79,740)	(79,740)	-	-	\$2.76
	,600,399			4.1%	2.4%	2.1%	(32,294)	(32,294)	-	-	\$1.43
	,460,225 1,348,039			7.1% 8.2%	2.9% 5.3%	2.5% 5.2%	(11,200)	(11,200)	-		\$1.36 \$2.60
1 .	.,,,,,,,,,,	.0,000	1.370	0.270	١١ ٠.٠	J. Z /U	(143,434)	(140,404)			¥2.00
Sunnyvale	022146	22 146	06 1.70/	7.00/	2 20/	2 00/	00.100	00 100			42.40
	3,932,146 ,938,281			7.0% 1.3%	2.2% 0.6%	2.8% 0.3%	98,186	98,186 (25,833)	-	-	\$3.40 \$3.06
	,938,281			23.2%	1.3%	1.3%	(25,833)	(25,833)	-	-	\$3.06
	5,233,531			6.6%	1.8%	2.2%	72,353	72,353		-	\$1.50
1 - 1				0.070	1.070	Z.Z./V	, 2,333	, 2,333			42.33
Silicon Valley Quarterly C				0.004	E-00/	E-00/	(200.004)	(200.004)	1 440 500	300.400	42.47
-	8,075,652			9.9%	5.8%	5.8%	(366,894)	(366,894)	1,419,538	389,402	\$2.17
	8,077,361 8,269,274			9.4% 9.1%	5.8% 5.9%	5.9% 5.2%	48,479 (1,882,152)	(3,198,380) (3,246,859)	1,254,536 1,670,596	1,018,807 936,547	\$2.20 \$2.18
<b>20Q3</b> 248,728				9.1% 8.4%	5.9%	4.6%	(1,882,152)	(3,246,859)	2,388,666	223,827	\$2.18
<b>20Q1</b> 248,37			% 1.6%	7.8%	4.6%	4.7%	152,665	152,665	2,426,993		\$2.09

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