

**A Study of Tsunami Inundation Levels and Possible  
Damage Estimates For Ali'i  
Drive in Kailua-Kona, Hawai'i**

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The eastern side of the Big Island and the Hilo area has suffered several devastating tsunamis in the past. The Kailua-Kona area, however, has not. The possibility of a large-scale tsunami to affect Ali'i Drive is great, and needs to be addressed. The study looked at properties and buildings in the study area to determine an estimate of the damage that could be inflicted by such an event. Estimates over \$45 million were reached for an area that stretched for only a few blocks, from the King Kamehameha Hotel to the Royal Kona Resort.

## Introduction and Background

What will happen when the next tsunami hits the Big Island? This important question has yet to be answered. The last large tsunami on the island of Hawai'i was in 1965 (Walker 1994). And, with history as our teacher, we have learned that the aftermath of a tsunami can be devastating.

The tsunami of 1960 brought waves over 10.7 meters in height on the northeastern coasts of the Big Island of Hawai'i (Loomis 1976). There have been other episodes of potentially damaging and catastrophic tsunami waves. Another example is the 1946 tsunami in Hilo, one of the most powerful and destructive in history. Waves with heights of over 8.1 meters caused more than 150 people to be injured, 150 lives to be lost, and property valued in excess of \$25 million to be destroyed (Shepard et. al 1950). On other shores of the island, waves with heights of up to 12 meters came to shore, destroying anything and everything in their paths (Walker 1994). A tsunami warning siren system was set up on the islands after this tragic event, but even this warning system gave people only minutes to move to safety (Shepard et al 1950). Currently there are buoy systems in place, but there still would be only hours of warning time. With a population ranging from 10-12,000 people just in the Kailua-Kona area, much more time is needed to get everyone evacuated and out of harm's way.

There are many factors to be considered in determining the effects a tsunami will have on the Big Island. These include not only the source of the tsunami, but the submarine topography, the presence or lack of reefs, and the

configurations of the coastline (Shepard et al 1950). The main question to be addressed by this study is how the arrival of a large-scale tsunami will affect areas that have recently become densely populated. An example of one such area is the western side of the island, specifically the Kailua-Kona area.

The last large tsunami that impacted the island of Hawai'i was in 1960. A large Chilean earthquake triggered a tsunami with waves that were reported to be over 2.4 meters in height on the eastern coasts of the island (Loomis 1976). Hilo and the surrounding areas were devastated by the tsunami, but the western side of the island remained largely unaffected. In fact, the majority of tsunamis that have affected the island of Hawai'i have not adversely impacted the western side, largely due to the source-earthquake locations that set off the tsunamis. Earthquakes in the Aleutian Islands caused the tsunamis of 1946 and 1957, with the largest wave heights recorded in Hilo at 8.1 meters and 3.9 meters in height, respectively. During these tsunamis, the wave heights were only recorded at 3.1 and 1.5 meters, respectively, on the Kona coasts (Walker 1994).

Other tsunamis that have caused significant damage to the island have originated in Kamchatka, Russia (1952) and Chile (1960). Both of these source areas have caused much larger waves and, therefore, much more damage to the Hilo side of the island (Walker 1994). This does not mean that the potential for a serious tsunami on the western side of the island does not exist. The risk is very real. An earthquake in Japan, parts of the Aleutian Islands, or even locally, could generate a tsunami that would devastate the western side of the island (Walker 1994).

The purpose of this research was to determine what the effects of a large tsunami on the west side of the Big Island would be. The goal of the research was to determine how homes, businesses, hotels, and other buildings would be affected by a tsunami. The area of study was Ali'i Drive in Kailua-Kona, specifically the few blocks between the King Kamehameha hotel and the Royal Kona Resort. This area of study was ideal because it has experienced a growth boom since the tsunami of 1960. Homes, hotels and shops now line both sides of the street. The effects on Ali'i Drive have not as yet been explored. When a tsunami occurs, it will affect not only thousands of Big Island residents, but visitors to the island as well.

Other valuable information to the project was to examine evacuation plans for the hotels along Ali'i Drive. One of the largest problems the island would be faced with if there were a tsunami is how to evacuate thousands of people out of harm's way to safety in a relatively short amount of time.

In speaking with Craig Duncan, the director of Sales at the Royal Kona resort, he said that all of the hotels are required to have specific and detailed evacuation plans in the event of a natural disaster like a hurricane, earthquake or tsunami. While he couldn't discuss the plans of other hotels specifically, he did mention that all of the resorts' evacuation plans for their guests and staff are very similar to that of the Royal Kona Resort. At the Royal Kona, the head of each department has very specific responsibilities for shutting down the hotel. When the warning is issued, there are steps that each person must follow to shut down and secure the hotel, as well as lead the guests to safety. The resort also has a

contract with the Robert's of Hawaii Tour Company to provide buses to move guests and staff uphill to Kealakehe Elementary School, the designated emergency shelter for the Kailua-Kona area. In practice drills, the buses arrive at the hotel within 10-20 minutes. When the plan is carried out under typical conditions, it takes them slightly less than an hour to evacuate the entire resort. Nevertheless, being prepared with an evacuation plan does not necessarily mean that it will be enough.

The general hypothesis of this project is that the Big Island, specifically the west side of the island, as well as Hawai'i as a whole, is not sufficiently prepared for the next tsunami. Tsunamis are a constant threat in Hawai'i, with twenty-two occurring since 1812 that have had run-up heights of 1 meter or more (Walker 1994). These tsunamis have had source earthquakes in South America, the Aleutian Islands, Japan, Tonga, California and Kamchatka, Russia, among others (Walker 1994). The question is not if, but when will a tsunami come. The areas that will be the most affected need to become more aware and informed of the threat and, in turn, learn how to be better prepared. This research, upon completion, will send a wake-up call to the residents and guests of Hawai'i. Ideas as to how to be better prepared for an event that could happen at any moment, without significant warning time, will be made in this study. It is also hoped that, when the danger becomes more concrete in the minds of the island's residents, there will be more push for new buildings to be built to tsunami building standards, and more existing buildings to become updated.

## Materials and Methods

The steps for researching this project were relatively simple. Previous tsunami inundation levels were examined, and the areas that would have the greatest susceptibility were determined (Loomis 1976). The location of Ali'i Drive in Kailua-Kona was chosen because of its proximity to the water, and because of the large-scale development it has recently undergone. With Loomis' 1976 study, *Tsunami Wave Run-up Heights in Hawai'i*, and a topographical map of the area, it was determined that the elevation of the study site was well within the known inundation zone.

After the specific study site was determined, a walk-through survey of the street was conducted addresses were written down to identify the buildings on the study section of Ali'i Drive. Those addresses were then confirmed by using maps and records from the Hilo Real Property Tax Office, a division of the county taxation department. Maps from the tax office were used to identify the zones, sections, plats and parcels that comprised the study site (Appendix 1). Once the buildings and properties were identified, their values were determined using the most recent tax records available, for the year 2000. The land and building values for each location were then used as a key piece of information to arrive at a damage estimate.

One of the most important steps in this research was to make a reasonable estimate of the potential damage to the study area. To do this, both property values and building values were determined using records from the tax

office. Another important piece of information was to superficially observe building structures and try to determine which buildings, if any, utilize established tsunami building codes. Finally, a general estimate of the damage that a potential tsunami could inflict was determined.

A general estimate must be used for two reasons, 1) the land will largely remain intact after the tsunami, with most damage to it being minimal, and 2) the damage to most buildings in the study site will not suffer total destruction. There will be many areas and parts of buildings that will be damaged, but not completely destroyed, so this must be taken into account when estimating the total cost. It must be noted that different types of structures, for example, wooden buildings versus those made of cement, will withstand the pressures of a tsunami differently, which will also affect the total damage.

Materials included tsunami building codes, building and tax records from the tax office and topographical maps of the Big Island, including the Kailua and Keahole Point areas.

## **Results**

The study area of Ali'i Drive between the King Kamehameha Hotel and the Royal Kona Resort was analyzed for both the mauka (mountain) and makai (ocean) sides of the street. The entire study site is found in zone 7, section 5 of the tax maps that were used. The makai side of the study area encompassed three different plats, consisting of seventeen parcels. The mauka side of the street consisted of four plats and a total of thirty parcels. Several different



damage estimates were reached for the study site. Both land and building totals were used to determine a total cost, as well as determining a building only total (Table 1).

TABLE 1—Damage estimates for Ali'i Drive

	Mauka side of street	Makai side of street	Mauka and makai totals combined
Total estimated cost	\$50,759,200	\$27,094,400	\$77,753,600
Building only total	\$32,675,000	\$15,305,100	\$47,980,100

Both the land and building totals were used to estimate potential overall damage, but the more relevant of the two to look at for this study is the building values, which when combined for both sides of the street, total close to \$48 million. If there were to be a large tsunami, the buildings would be the most impacted and would suffer the largest amount of damage. The land, in contrast, would probably experience little or no damage and would remain largely intact. Therefore, the bulk of the damage estimate should come from this building value total.

### Discussion

The damage estimate that was reached for Ali'i Drive based on only the assessment of the buildings is near \$48 million. Of course, even in the event of a catastrophic tsunami, the damage would not be total. Many structures would

remain standing, with only some areas sustaining damage. However, without the advise of a professional appraiser, it is difficult to determine what the actual damage inflicted would be. Another reason that it is difficult to reach more specific damage estimates is that the most important factor in determining the destruction that would occur is the size of the tsunami. Until this event actually happens, only hypothetical scenarios can be examined. There are many factors in the event of a real tsunami, which are hard to account for until they actually happen. Still, these numbers are important to look at because they help to give a general idea of what is really at stake.

In 1980, the Dames and Moore consulting company compiled a set of suggested structural guidelines for residential buildings in tsunami-prone areas of Hawaii. Factors including Buoyant force, Surge force, Drag, Impact and Hydrostatic forces are all to be considered during construction of elevated structures in these areas. The tsunami building code amendments state that allowable stresses for materials used in construction should be similar to those in established earthquake codes. It also states that the main building must be "adequately connected to the support structures" (Dames and Moore 1980). Each of the buildings in the study was observed to see if they seemed to meet these guidelines. The suggested internal structural considerations apply to residential buildings in areas like Ali'i Drive. The building code does not discuss design guidelines for commercial buildings, furthermore, it is not a set of rules, but merely suggestions that many builders can chose whether or not to abide.

This means that it is also important to further examine the internal structures of the buildings within the study site. Without this information, it is hard to say which buildings would sustain the greatest amount of damage. According to the Dames & Moore (1980) tsunami building codes for residential areas, a building in a tsunami prone area should have the first floor of living area above the potential wave height. This is a requirement that, based on previous observations, most of the buildings within the study site do not meet. However, building plans which were not made available for this study would have to be obtained to determine whether or not the internal construction standards set by the tsunami building codes are met.

This study also only looked at distant tsunamis and not local tsunamis. In the case of a local tsunami, there is significantly less warning time, if there is any at all. Meaning that there would be little or no time to get residents and visitors to safety. This is an area of tsunami preparedness that needs to be examined further. There have been 6 documented local tsunamis on the Big Island, and three of them have had runups of 3 meters or more (Walker 1994). It is thought that the cause of these local tsunamis may have been submarine landslides of volcanic debris. The travel time for a local tsunami to reach the Kailua-Kona coast is 5-10 minutes (Walker 1994), hardly enough time to warn anyone, let alone move anyone to safety. And, unfortunately, as the Kilauea volcano continues to flow, the unstable volcanic debris that is this source of these local tsunamis will continue to build up and present problems. In situations such as

these, there is little to do to prepare, which means that such an event will usually spell disaster.

## **Conclusion**

In conclusion, there is still much to be studied in the area of tsunami preparedness. The island of Hawai'i as a whole, but especially the Kailua-Kona coast, is not sufficiently prepared for the next tsunami that will almost surely come to the Big Island. Unfortunately, there does not seem to be much more that can be done to increase the island's preparedness. Building structures that meet tsunami building codes and better informing island residents and visitors of the danger are two important steps that can be taken in order to be at least be somewhat better prepared. More important than the \$48 million dollars that is at stake for a study site that is only a few blocks long is the potential human loss. Homes, hotels and businesses can be rebuilt and replaced, but human life cannot. This study area of Ali'i Drive is one of the most concentrated populous areas of our island, with any number of tourists and residents present at any time.

Based on the research completed to this point, the danger and potential for loss is much greater than most people realize. And this island is not, as a whole, prepared for what almost certainly will have to be faced in the future. More people need to be educated, because awareness can lead to better preparedness for the residents and guests of the island of Hawai'i, and that is the best defense that can be hoped for.

## APPENDIX ONE

## Makai Side Of Street--Fee Owners/Lessees and Values

## MAKAI SIDE OF STREET

ZONE-SECTION-PLAT-PARCEL	FEE OWNER/LESSEE	VALUES	
7-05-007-020	state of Hawai'i (F)	Building	268500
	daughters of Hawai'i (L)	Land	978800
		Total	1247300
7-05-007-021	Kailua Kona Village dev grp (F)	B.	1912200
		L.	3551900
		T.	5464100
7-05-008-009	Watumull Properties Corp (F)	B.	2705100
		L.	842300
		T.	3547400
7-05-008-010	state of Hawai'i (F)	B.	249900
		L.	1995100
		T.	2245000
7-05-008-019	Watumull Properties Corp. (F)	B.	0
		L.	7200
		T.	7200
7-05-009-007	Slayter Craig K. Trustee (F) Slayter Clark A. Trustee (F) Pleasant Travel Service (L)	B.	0
		L.	1902700
		T.	1902700
7-05-009-013	Dye, Tessa Gay (F) Pleasant Travel Service (L)	B.	5000000
		L.	302200
		T.	5302200
7-05-009-014	Bishop Trust Estate (F) Olu Kai, Ltd. (L)	B.	134100
		L.	245700
		T.	379800
7-05-009-016	Olu Kai, Ltd. (F))	B.	35300
		L.	106400
		T.	141700
7-05-009-019	Dye, Tessa Gay (F) Hilton-Burns Kona Partnership (L)	B.	0
		L.	141100
		T.	141100
7-05-009-026	state of Hawai'i (F)	B.	0
		L.	347400
		T.	347400

7-05-009-037	county of Hawai'i (F)	B.	0
		L.	100
		T.	100
7-05-009-042	Kona Seas, Ltd. Partnership (F)	B.	5000000
	Williams, Robert T. Jr (F)	L.	629000
		T.	5629000
7-05-009-046	Florence V. Hind Hilton TR (F)	B.	0
	Theone V Hilton Prop TR (F)	L.	245600
	Pleasant Travel Service (L)	T.	245600
7-05-009-063	Bishop Trust Estate (F)	B.	0
	Pleasant Travel Service (L)	L.	487900
		T.	487900
7-05-009-064	state of Hawai'i (F)	B.	0
	Von Platen Luder, Hugo (L)	L.	5800
	Von Platen Luder, Shirley (L)	T.	5800
7-05-009-065	Lrg. Real Estate	B.	0
		L.	100
		T.	100

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Makai Side Of Street--Total Values (land and building)

King Kamehameha--Royal Kona Resort

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Makai (ocean) side of street properties:

zone-section-plat-parcel		total value (land and building)
7-05-007-020	Huli Hee Palace	1247300
7-05-007-021	Huli Hee Palace	5464100
7-05-008-010	Kona Inn Shopping	2245000
7-05-008-009	Kona Inn Shopping	3547400
7-05-008-019		7200
7-05-009-065		100
7-05-009-026		347400
7-05-009-016	Waterfront Row	141700
7-05-009-037		100
7-05-009-014		379800
7-05-009-064		5800
7-05-009-019		141100
7-05-009-063		487900
7-05-009-013		5302200
7-05-009-046		245600
7-05-009-007	Royal Kona Resort	1902700
7-05-009-042	Royal Kona Resort	5629000
	total for makai side	27,094,400

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Makai Side Of Street--Building Values

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Makai side of street

zone-section-plat-parcel

building value

7-05-007-020	268500
7-05-007-021	1912200
7-05-008-010	249900
7-05-008-009	2705100
7-05-008-019	0
7-05-009-065	0
7-05-009-026	0
7-05-009-016	35300
7-05-009-037	0
7-05-009-014	134100
7-05-009-064	0
7-05-009-019	0
7-05-009-063	0
7-05-009-013	5000000
7-05-009-046	0
7-05-009-007	0
7-05-009-042	5000000

total

15,305,100

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Mauka Side Of Street--Fee Owners/Lessees and Values

MAUKA SIDE OF STREET

ZONE-SECTION-PLAT-PARCEL	FEE OWNER/LESSEE	VALUES	
7-05-006-020	HKK Inc (F)	Building	16726500
		Land	4260700
		Total	20987200
7-05-006-017	Anamizu, Cynthia N. (F)	B.	459100
	Anamizu, Carole (F)	L.	511200
	Ho, Louise S. (F)	T.	970300
	Abe, Jayne H. (F)		
	Anamizu, Clyde T. (F)		
	Borgerding, Fevondalei Y. (F)		
	Kona Seaside Inc. (L)		
7-05-006-025	Sarah L. Akona Partnership (F) Kona Tei Inc (L)	B.	589600
		L.	386000
		T.	975600
7-05-006-019	Watt, Helen E. Trust (F)	B.	134100
		L.	278900
		T.	413000
7-05-006-014	Lee, Rose Y. (F)	B.	91400
	Lee, Earl V. (F)	L.	266500
	Booth, Edwina N (F)	T.	357900
	Kam, Kenneth N. (F)		
	Kuwada, Jeanette N. (F)		
	Kam, Thomas N. (F)		
	Ryl Corp. (L)		
7-05-006-013	Yoneji, Donald M./Vivian K. (F)	B.	735300
	Foo, Betsy F. (F)	L.	510900
	Foo, Hardy A. (F)	T.	1246200
	Kimi, Richard W. (L)		
	Kimi, Kenneth P. (L)		
	Kimi, Matilda W. (L)		
	Anderson, Mildred H. (L)		
	Naleimaile, Matilda E. (L)		
Kimi, William J. Jr. (L)			
7-05-006-012	Burgess, Inc (F)	B.	0
		L.	169800
		T.	169800
	Burgess, Inc. (F)	B.	0
		L.	169800
		T.	169800
	Burgess, Inc (F)	B.	0

	L.	169800
	T.	169800
Burgess, Inc (F)	B.	0
	L.	169800
	T.	169800
Burgess, Inc (F)	B.	0
	L.	169800
	T.	169800
Burgess, Inc (F)	B.	0
	L.	169800
	T.	169800
Burgess, Inc (F)	B.	0
	L.	169800

(seven different addressees)

7-05-006-011

Burgess, Amelia (F)	B.	253100
Burgess, Manuel (F)	L.	178500
Burgess, Margaret F. (F)	T.	431600
William S K Burgess Est. (F)		
Kalikookalani B. Chun (F)		
Charlotte Hao Trust (F)		
Burgess, Inc (L)		
Burgess, Amelia (F)	B.	253100
Burgess, Manuel (F)	L.	178500
Burgess, Margaret F. (F)	T.	431600
William S K Burgess Est. (F)		
Kalikookalani B. Chun (F)		
Charlotte Hao Trust (F)		
Burgess, Inc (L)		
Burgess, Amelia (F)	B.	253100
Burgess, Manuel (F)	L.	178500
Burgess, Margaret F. (F)	T.	431600
William S K Burgess Est. (F)		
Kalikookalani B. Chun (F)		
Charlotte Hao Trust (F)		
Burgess, Inc (L)		
Burgess, Amelia (F)	B.	253100
Burgess, Manuel (F)	L.	178500
Burgess, Margaret F. (F)	T.	431600
William S K Burgess Est. (F)		
Kalikookalani B. Chun (F)		
Charlotte Hao Trust (F)		
Burgess, Inc (L)		
Burgess, Amelia (F)	B.	253100
Burgess, Manuel (F)	L.	178500
Burgess, Margaret F. (F)	T.	431600
William S K Burgess Est. (F)		
Kalikookalani B. Chun (F)		
Charlotte Hao Trust (F)		

	Burgess, Inc (L)		
	Burgess, Amelia (F)	B.	253100
	Burgess, Manuel (F)	L.	178500
	Burgess, Margaret F. (F)	T.	431600
	William S K Burgess Est. (F)		
	Kalikookalani B. Chun (F)		
	Charlotte Hao Trust (F)		
	Burgess, Inc (L)		
	Burgess, Amelia (F)	B.	253100
	Burgess, Manuel (F)	L.	178500
	Burgess, Margaret F. (F)	T.	431600
	William S K Burgess Est. (F)		
	Kalikookalani B. Chun (F)		
	Charlotte Hao Trust (F)		
	Burgess, Inc (L)		
	Burgess, Amelia (F)	B.	253100
	Burgess, Manuel (F)	L.	178500
	Burgess, Margaret F. (F)	T.	431600
	William S K Burgess Est. (F)		
	Kalikookalani B. Chun (F)		
	Charlotte Hao Trust (F)		
	Burgess, Inc (L)		
	(eight different addressees)		
7-05-006-010	Edmund S P/B Wong Trust (F)	B.	185700
		L.	204900
		T.	390600
7-05-006-009	Akona, Sarah L. (F)	B.	175700
	Kuwada, Ward K./Emma M. (L)	L.	233700
		T.	409400
7-05-007-019	Edmund Wong Trust (F)	B.	312800
	Barbara A C Wong Trust (F)	L.	216900
	Nakea, Joseph K. (L)	T.	529700
7-05-007-018	Mokuaikaua Church	B.	164700
		L.	599800
		T.	764500
7-05-007-016	NF Inc (F)	B.	457000
	NF Inc (L)	L.	157600
		T.	614600
7-05-007-023	NF Inc (F)	B.	739700
		L.	259700
		T.	999400
7-05-007-005	Crellin, Louise S. (F)	B.	584400

	Von Platen Luder, Hugo (F)	L.	259700
	Von Platen Luder, Shirley (F)	T.	844100
	NF Inc (L)		
7-05-007-066	State of Hawai'i (F)	B.	0
		L.	100
		T.	100
7-05-007-058	State of Hawai'i (F)	B.	0
		L.	100
		T.	100
7-05-007-004	Oka and Oka Hawaii	B.	2002000
		L.	1523000
		T.	3525000
7-05-008-011	Deseret Title Holding Corp (F)	B.	0
	Watumull Properties Corp (L)	L.	248300
		T.	248300
7-05-008-022		B.	
		L.	
		T.	
7-05-008-006	Roman Catholic Church (F)	B.	47300
		L.	2369700
		T.	2417000
7-05-008-005	Kealaokamalamalama Church (F)	B.	354600
		L.	588700
		T.	943300
7-05-008-003 (145 addressees)	1 Ichthus Land Company (F)	B.	25300
	Ashikawa, Gilbert M. (L)	L.	5800
		T.	31100
	2 Ichthus Land Company (F)	B.	25300
	Diliberto, Faye (NMI) (L)	L.	5800
		T.	31100
	3 Ichthus Land Company (F)	B.	25300
	Maynard, Donald J.	L.	5800
		T.	31100
	4 Ichthus Land Company (F)	B.	25300
	Giltner, Rollin V. Jr (L)	L.	5800
	Giltner, Antoinette R. (L)	T.	31100
	5 Ichthus Land Company (F)	B.	41000
	Hawai'i Resort Mgt Inc (L)	L.	10500
		T.	51500
	6 Ichthus Land Company (F)	B.	19400

Metcalf, James A./Karen (L)	L.	1700
	T.	21100
7 Ichthus Land Company (F)	B.	25300
Machado, Louis R./Loudrie (L)	L.	5800
	T.	31100
8 Ichthus Land Compnay (F)	B.	25300
Titov, Konstantin V./Diane L. (L)	L.	5800
	T.	31100
9 Ichthus Land Company (F)	B.	25300
Puccioni, Jennifer L. (L)	L.	5800
	T.	31100
10 Ichthus Land Company (F)	B.	26100
Hotel Corp. of the Pacific	L.	5800
	T.	31900
11 Ichthus Land Company (F)	B.	29100
Giltner, Rollin V. Jr (L)	L.	5800
Giltner, Antoinette R. (L)	T.	34900
12 Ichthus Land Company (F)	B.	29100
Giltner, Rollin V. Jr (L)	L.	5800
Giltner, Antoinette R. (L)	T.	34900
13 Ichthus Land Company (F)	B.	29100
Jarvis, Ralph E. (L)	L.	5800
	T.	34900
14 Ichthus Land Company (F)	B.	29100
Stephens, Darrell A. (L)	L.	5800
Stephens, Kathleen R. (L)	T.	34900
15 Ichthus Land Company (F)	B.	29100
Bockhorn, Steven C. (L)	L.	5800
	T.	34900
16 Ichthus Land Company (F)	B.	29100
Cabral, Melvin F. (L)	L.	5800
	T.	34900
17 Ichthus Land Company (F)	B.	29100
Consolidated Kona, Inc (L)	L.	5800
	T.	34900
18 Ichthus Land Company (F)	B.	41700
Dobson, Ralph W. (L)	L.	9300
	T.	51000
19 Ichthus Land Company (F)	B.	29100
Kona Ten (a partnership) (L)	L.	5800
	T.	34900
20 Ichthus Land Company (F)	B.	29100
Metcalf, Karen A. (L)	L.	5800
	T.	34900
21 Ichthus Land Company (F)	B.	29100
Baseman, Grant R./Linda V. (L)	L.	5800
	T.	34900
22 Ichthus Land Company (F)	B.	29100
Baseman, Grant R./Linda V. (L)	L.	5800

	T.	34900
23 Ichthus Land Company (F)	B.	29100
Baseman, Grant R./Linda V. (L)	L.	5800
	T.	34900
24 Ichthus Land Company (F)	B.	29100
Fujitani, Bert H./Karen N.(L)	L.	5800
Okano, Glen K. (L)	T.	34900
25 Ichthus Land Company (F)	B.	29400
Bailey, Shirley A. (L)	L.	5800
	T.	35200
26 Ichthus Land Company (F)	B.	29400
Coskie, Jay T. (L)	L.	5800
Fisher, Phyllis (L)	T.	35200
27 Ichthus Land Company (F)	B.	41900
Consolidated Kona Inc (L)	L.	9300
	T.	51200
28 Ichthus Land Company (F)	B.	29400
Hendrickson, Mercedes K. (L)	L.	5800
	T.	35200
29 Ichthus Land Company (F)	B.	25300
Honour, Clinton W. (L)	L.	5800
Honour, Jennifer A. (L)	T.	35200
Toule, Judith A. (L)		
Toulze, John A. (L)		
30 Ichthus Land Company (F)	B.	25300
Patrick, Tracy M. III/Cathy A. (L)	L.	5800
Maichen, Jeffrey W./Marianne (L)	T.	31100
Coulson, Thomas W. (L)		
Ling, Patricia M. (L)		
31 Ichthus Land Company (F)	B.	25300
Green, Norman B. (L)	L.	5800
	T.	31100
32 Ichthus Land Company (F)	B.	25300
Green, Norman B. (L)	L.	5800
	T.	31100
33 Ichthus Land Company (F)	B.	25300
Froncek, Matthew W. (L)	L.	5800
	T.	31100
34 Ichthus Land Company (F)	B.	25300
Cronauer, Heinz R. (L)	L.	5800
Cronauer, Michel W. (L)	T.	31100
35 Ichthus Land Company (F)	B.	25300
Halvorson, Avis W. (L)	L.	5800
	T.	31100
36 Ichthus Land Company (F)	B.	25300
Halvorson, Avis W. (L)	L.	5800
	T.	31100
37 Ichthus Land Company (F)	B.	29100
Wallway, Douglas G./Cheri A (L)	L.	5800

	Norton, Timothy W./Kathryn (L)	T.	34900
38	Ichthus Land Company (F)	B.	29100
	Aoyama, Yasutaka B. (L)	L.	5800
		T.	34900
39	Ichthus Land Company (F)	B.	29100
	Paulick, Gundela (L)	L.	5800
		T.	34900
40	Ichthus Land Company (F)	B.	29100
	Spalding, Michael J. (L)	L.	5800
		T.	34900
41	Ichthus Land Company (F)	B.	29100
	Strahan, Wade C. (L)	L.	5800
	Strahan, Sharon K. (L)	T.	34900
42	Ichthus Land Company (F)	B.	29100
	Nawrocki, Daniel F./Dorothy (L)	L.	5800
		T.	34900
43	Ichthus Land Company (F)	B.	29100
	Bennett, Murray, E. (L)	L.	5800
		T.	34900
44	Ichthus Land Company (F)	B.	29100
	Bennett, Murray, E. (L)	L.	5800
		T.	34900
45	Ichthus Land Company (F)	B.	29400
	Brodbeck, Linda L. (L)	L.	5800
		T.	35200
46	Ichthus Land Company (F)	B.	29400
	Lizza, Karl P. (L)	L.	5800
		T.	35200
47	Ichthus Land Company (F)	B.	29400
	McKowen, Patricia A. Trust (L)	L.	5800
		T.	35200
48	Ichthus Land Company (F)	B.	29400
	Suttle, Rodney, D./Beryl H. (L)	L.	5800
		T.	35200
49	Ichthus Land Company (F)	B.	29400
	Crosswhite, Bert (NMN) (L)	L.	5800
	Crosswhite, Virginia I. (L)	T.	35200
50	Ichthus Land Company (F)	B.	29400
	Anthony, Edward/Marcella (L)	L.	5800
		T.	29400
51	Ichthus Land Company (F)	B.	29400
	Juniper, Jay M. (L)	L.	5800
	Juniper, Melinda B. (L)	T.	35200
	Brent, John T. Jr. (L)		
52	Ichthus Land Company (F)	B.	29400
	Wallway, Douglas G./Cheri (L)	L.	5800
	Norton, Timothy W./Kathryn (L)	T.	35200
53	Ichthus Land Company (F)	B.	25300
	Higashida, Nathan S. (L)	L.	5800

	T.	31100
54 Ichthus Land Company (F)	B.	25300
Templar, Brian (L)	L.	5800
	T.	31100
55 Ichthus Land Company (F)	B.	25300
Hendrickson, Harland (L)	L.	5800
	T.	31100
56 Ichthus Land Company (F)	B.	25300
Hall, Dean G. (L)	L.	5800
	T.	31100
57 Ichthus Land Company (F)	B.	25300
Tremaine, John K. Jr/Magdalena	L.	5800
(L)	T.	31100
58 Ichthus Land Company (F)	B.	25300
Consolidated Kona, Inc. (L)	L.	5800
	T.	31100
59 Ichthus Land Company (F)	B.	25300
Prinslow, Michael W. (L)	L.	5800
Prinslow, Janis G. (L)	T.	31100
Everton, Velma J. (L)		
60 Ichthus Land Company (F)	B.	29100
King, Catherine Trust (L)	L.	5800
	T.	34900
61 Ichthus Land Company (F)	B.	29100
Cheung, Francis/Ruth (L)	L.	5800
Staniszki, Jan J./Kazuko Y. (L)	T.	34900
Lum, Joseph Kwai Tim (L)		
62 Ichthus Land Company (F)	B.	29100
NG Allen Y. P. (L)	L.	5800
	T.	34900
63 Ichthus Land Company (F)	B.	29100
Matlewsky, Ronald R. (L)	L.	5800
Matlewsky, Darlene A. (L)	T.	34900
64 Ichthus Land Company (F)	B.	29100
Sahara Hawn Ltd Partnership (L)	L.	5800
	T.	34900
65 Ichthus Land Company (F)	B.	29100
Rocheleau, Clark C. (L)	L.	5800
Lorence, Carol A.(L)	T.	34900
66 Ichthus Land Company (F)	B.	29100
Metcalf, Karen A. (L)	L.	5800
	T.	34900
67 Ichthus Land Company (F)	B.	29400
Moody, Joseph Dean/Linda (L)	L.	5800
	T.	35200
68 Ichthus Land Company (F)	B.	29400
Bailey, Shirley A. (L)	L.	5800
	T.	35200
69 Ichthus Land Company (F)	B.	29400



Carlston, Daniel H. (L)	L.	5800
Carlston, Christine (L)	T.	35200
70 Ichthus Land Company (F)	B.	29400
Scherer, Ernest F. Jr (L)	L.	5800
	T.	35200
71 Ichthus Land Company (F)	B.	29400
James, Alan W. (L)	L.	5800
	T.	35200
72 Ichthus Land Company (F)	B.	29400
Delaunay, Daniel E./Jacque (L)	L.	5800
	T.	35200
73 Ichthus Land Company (F)	B.	29400
Barnard, Timothy K. (L)	L.	5800
Giltner, Heather P. (L)	T.	35200
74 Ichthus Land Company (F)	B.	25300
Plantinum Group LLC (L)	L.	5800
	T.	31100
75 Ichthus Land Company (F)	B.	25300
Callju, Donald R. (L)	L.	5800
DeLeon-Callju, Roseanne (L)	T.	31100
76 Ichthus Land Company (F)	B.	25300
Spalding, Michael J. (L)	L.	5800
	T.	31100
77 Ichthus Land Company (F)	B.	25300
Lorenz, Margaret R. (L)	L.	5800
	T.	31100
78 Ichthus Land Company (F)	B.	29100
Davis-Nave Angeline (L)	L.	5800
	T.	34900
79 Ichthus Land Company (F)	B.	29100
Clark, Lisa R. (L)	L.	5800
	T.	34900
80 Ichthus Land Company (F)	B.	29100
Yamada, Hideki (L)	L.	5800
	T.	34900
81 Ichthus Land Company (F)	B.	29100
Schmidt, Raymond A. (L)	L.	5800
	T.	34900
82 Ichthus Land Company (F)	B.	29400
Metcalf, Karen A. (L)	L.	5800
	T.	35200
83 Ichthus Land Company (F)	B.	29400
Augustine, John A. (L)	L.	5800
Augustine, Eleanor A. (L)	T.	35200
84 Ichthus Land Company (F)	B.	29400
Balicki, William J. (L)	L.	5800
Balicki, Patricia A. (L)	T.	35200
85 Ichthus Land Company (F)	B.	29400
Gall, Robert A. (L)	L.	5800

	Durbin Family Trust (L)	T.	35200
	Cantrell, Tonia M. (L)		
86	Ichthus Land Company (F)	B.	25300
	Schroder, William P. (L)	L.	5800
		T.	31100
87	Ichthus Land Company (F)	B.	25300
	Colley, Judith A. (L)	L.	5800
		T.	31100
88	Ichthus Land Company (F)	B.	25300
	Tatibouet, Andre S. Trust (L)	L.	5800
		T.	31100
89	Ichthus Land Company (F)	B.	25300
	Eccleston, Marc (L)	L.	5800
	Luu, Nancy (L)	T.	31100
90	Ichthus Land Company (F)	B.	25300
	Haught, Robert C. II (L)	L.	5800
		T.	31100
91	Ichthus Land Company (F)	B.	25300
	Jones, Kenneth L./Berta R. (L)	L.	5800
	Morgan, William H./Donna R. (L)	T.	31100
92	Ichthus Land Company (F)	B.	25300
	Stumpe, Mark A. (L)	L.	5800
		T.	31100
93	Ichthus Land Company (F)	B.	25300
	Hall Dean G. Tr. (L)	L.	5800
		T.	31100
94	Ichthus Land Company (F)	B.	29100
	Lee, Mary L. Tr. (L)	L.	5800
		T.	34900
95	Ichthus Land Company (F)	B.	29100
	Yamashiro, Charlotte M. (L)	L.	5800
	Nishimura, Glen (L)	T.	34900
96	Ichthus Land Company (F)	B.	29100
	Schroder, William P. (L)	L.	5800
		T.	34900
97	Ichthus Land Company (F)	B.	29100
	Cicero, Joseph Salvatore (L)	L.	5800
	Exner, Theodore/Lore (L)	T.	34900
98	Ichthus Land Company (F)	B.	29100
	Mayo, Ivan B./Marilynn E. (L)	L.	5800
		T.	34900
99	Ichthus Land Company (F)	B.	29100
	Bach, Faith (L)	L.	5800
		T.	34900
100	Ichthus Land Company (F)	B.	29100
	Travis, John W./Virginia K. (L)	L.	5800
		T.	34900
101	Ichthus Land Company (F)	B.	29100
	Fox, Donna S. (L)	L.	5800

	Hunt, Kerby L. (L)	T.	34900
102	Ichthus Land Company (F)	B.	29400
	Dean, John Reay/Bonnie L. (L)	L.	5800
	Anderson, Kenneth D./Erin R. (L)	T.	35200
103	Ichthus Land Company (F)	B.	29400
	Lowney, John F. (L)	L.	5800
		T.	35200
104	Ichthus Land Company (F)	B.	29400
	Daspit, Warren C./Karen T. (L)	L.	5800
		T.	35200
105	Ichthus Land Company (F)	B.	29400
	Morgan, William H./Donna R. (L)	L.	5800
		T.	35200
106	Ichthus Land Company (F)	B.	29400
	Maloney, John P. (L)	L.	5800
	Maloney, Kathleen M. (L)	T.	35200
	Maloney, Aidan (L)		
107	Ichthus Land Company (F)	B.	29400
	McGibney, Michael David (L)	L.	5800
	McGibney, Jeanie Lyons (L)	T.	35200
108	Ichthus Land Company (F)	B.	29400
	Nakama, Joyce H. (L)	L.	5800
		T.	35200
109	Ichthus Land Company (F)	B.	39200
	Braun, Angela M. (L)	L.	5800
		T.	45000
110	Ichthus Land Company (F)	B.	39200
	Maness, Judith R. (L)	L.	5800
		T.	45000
111	Ichthus Land Company (F)	B.	39200
	Mick, Harold L./Virginia V. (L)	L.	5800
		T.	45000
112	Ichthus Land Company (F)	B.	39200
	Pearson, Christian H. (L)	L.	5800
	Underwood, Lorraine (L)	T.	45000
113	Ichthus Land Company (F)	B.	39200
	Consolidated Kona, Inc. (L)	L.	5800
		T.	45000
114	Ichthus Land Company (F)	B.	39200
	Consolidated Kona, Inc. (L)	L.	5800
		T.	45000
115	Ichthus Land Company (F)	B.	39200
	Platinum Group LLC (L)	L.	5800
		T.	45000
116	Ichthus Land Company (F)	B.	39600
	Waldbauer, Eugene C. Tr. (L)	L.	5800
	Waldbauer, Florence C. Tr. (L)	T.	45400
117	Ichthus Land Company (F)	B.	39600
	Hostettler Family Trust (L)	L.	5800

	T.	45400
118 Ichthus Land Company (F)	B.	39600
Holaway, Kristine A. (L)	L.	5800
	T.	45400
119 Ichthus Land Company (F)	B.	39600
Lambert, Valerie E. (L)	L.	5800
	T.	45400
120 Ichthus Land Company (F)	B.	39600
Hoersch, Kay S. Loving Tr. (L)	L.	5800
	T.	45400
121 Ichthus Land Company (F)	B.	39600
Hall, Dean G. Trust (L)	L.	5800
	T.	45400
122 Ichthus Land Company (F)	B.	40200
Walsh, Walter W./Shirley B. (L)	L.	5800
	T.	46000
123 Ichthus Land Company (F)	B.	40200
McEwan, Kenneth H. (L)	L.	5800
McEwan, Evelyn Jane (L)	T.	46000
124 Ichthus Land Company (F)	B.	40200
Stewart, Lynn T. (L)	L.	5800
Merritt, Wendy L. (L)	T.	46000
Merritt, Kent R. (L)		
Merritt, Kimberly N. (L)		
125 Ichthus Land Company (F)	B.	40200
Suttle, Rodney D./Beryl H. (L)	L.	5800
	T.	46000
126 Ichthus Land Company (F)	B.	40200
Dooly, Dennis L./Janet L. (L)	L.	5800
	T.	46000
127 Ichthus Land Company (F)	B.	40200
Bailey, Shirley Ann (L)	L.	5800
	T.	46000
128 Ichthus Land Company (F)	B.	39200
Fenimore, Robert C. (L)	L.	5800
Fenimore, Mary J. (L)	T.	45000
129 Ichthus Land Company (F)	B.	39200
Baseman, Grant R./Linda V. (L)	L.	5800
	T.	45000
130 Ichthus Land Company (F)	B.	39200
Younglove, Ben Janette Trust (L)	L.	5800
	T.	45000
131 Ichthus Land Company (F)	B.	39200
Baseman, Grant R./Linda V. (L)	L.	5800
	T.	45000
132 Ichthus Land Company (F)	B.	39200
Cornell, Sandra J. (L)	L.	5800
Kole, Dolores A. (L)	T.	45000
133 Ichthus Land Company (F)	B.	39200

	Baseman, Grant R./Linda V. (L)	L.	5800
		T.	45000
134	Ichthus Land Company (F)	B.	39600
	Consolidated Kona, Inc. (L)	L.	5800
		T.	45400
135	Ichthus Land Company (F)	B.	39600
	Colley, Judith A. (L)	L.	5800
		T.	45400
136	Ichthus Land Company (F)	B.	39600
	Robitaille, Andre R. (L)	L.	5800
		T.	45400
137	Ichthus Land Company (F)	B.	39600
	Whistler, James D./Claire J. (L)	L.	5800
		T.	45400
138	Ichthus Land Company (F)	B.	39600
	Consolidated Kona, Inc. (L)	L.	5800
		T.	45400
139	Ichthus Land Company (F)	B.	39600
	Consolidated Kona, Inc. (L)	L.	5800
		T.	45400
140	Ichthus Land Company (F)	B.	40200
	Consolidated Kona, Inc. (L)	L.	5800
		T.	46000
141	Ichthus Land Company (F)	B.	40200
	Arnold, Robert J. (L)	L.	5800
	Yee, Mary Jean (L)	T.	46000
142	Ichthus Land Company (F)	B.	40200
	McNamara, Thomas E Trs. (L)	L.	5800
		T.	46000
143	Ichthus Land Company (F)	B.	40200
	Consolidated Kona, Inc. (L)	L.	5800
		T.	46000
144	Ichthus Land Company (F)	B.	40600
	Scott, James M. (L)	L.	5800
		T.	46400
145	Ichthus Land Company (F)	B.	40200
	Bhagwandin, Bryon D. (L)	L.	5800
	Bhagwandin, Sarah L. (L)	T.	46000

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(74 addressees)

1	Donald, Davis M. Trust (F)	B.	128500
		L.	7500
		T.	136000
2	Tetterington, Christina S. (F)	B.	128500
		L.	7500
		T.	136000
3	Kona Alii Development Co. (F)	B.	128500
	Archer, Stephen G./Barbara (L)	L.	7500

Archer, Stephen G./Barbara (L)	T.	136000
4 Akana, Akaiko G. Trs (F)	B.	128500
Engle, Danny G./Jeanette K. (L)	L.	7500
	T.	136000
5 Aiu, Boniface K. (F)	B.	128500
	L.	7500
	T.	136000
6 Akana, Akaiko G. Trs (F)	B.	128500
Chamberlain, Leo J. Trustee (L)	L.	7500
	T.	136000
7 Akana, Akaiko G. Trs (F)	B.	69500
Assoc of Apt. Owners (L)	L.	7500
	T.	77000
8 Kennedy, Allen D. (F)	B.	83100
Kennedy, Helen H. (F)	L.	7500
	T.	90600
9 LeMay Family Trust (F)	B.	90100
	L.	7500
	T.	97600
10 Akana, Akaiko G. Trs. (F)	B.	90100
Hollaway, Ray G. (L)	L.	7500
	T.	97600
11 Fischer, Jacob J./Esther L. (F)	B.	90100
	L.	7500
	T.	97600
12 Fleming, Peter A. (F)	B.	90100
	L.	7500
	T.	97600
13 Lehua Lani Estates Owners (F)	B.	133100
	L.	7500
	T.	140600
14 Schill, Donna R. Family Trs. (F)	B.	133100
	L.	7500
	T.	140600
15 Kona Alii Development Co. (F)	B.	133100
Spalding, Michael J. (L)	L.	7500
	T.	140600
16 Brueck, Clarinda M. (F)	B.	133100
	L.	7500
	T.	140600
17 Aigner, Willis K./Janet K. (F)	B.	133100
	L.	7500
	T.	140600
18 Russell, George F./Helen J. (F)	B.	133100
	L.	7500
	T.	140600
19 Elliott, William W./L V Trs (F)	B.	72500
	L.	7500
	T.	80000

20 Akana, Akaiko G. Trs (F)	B.	86600
Spalding, Michael J. (L)	L.	7500
	T.	94100
21 Akana, Akaiko G. Trs (F)	B.	93600
Souza, Barbara J. Trust (L)	L.	7500
	T.	101100
22 Akana, Akaiko G. Trs (F)	B.	93600
Franich Investments (L)	L.	7500
	T.	101100
23 Kona Alii Development Co. (F)	B.	93600
Spalding, Michael J. (L)	L.	7500
	T.	101100
24 Akana, Akaiko G. Trs (F)	B.	93600
Threefoot, Henry M. Trs (L)	L.	7500
Threefoot, Marie E. Trs (L)	T.	101100
25 Perry, Janet M. (F)	B.	142100
	L.	7500
	T.	149600
26 Aiu, Boniface K. Trs. (F)	B.	142100
Aiu, Boniface K. successor (F)	L.	7500
	T.	149600
27 Gilbert, W. C. Jr/Doris B. (F)	B.	142100
	L.	7500
	T.	149600
28 McClintock Family Trust (F)	B.	142100
	L.	7500
	T.	149600
29 Akana, Akaiko G. Trs (F)	B.	142100
Wesgaard, Juanita (L)	L.	7500
	T.	149600
30 Kona Alii Development (F)	B.	142100
Friedman, Dennis J. (L)	L.	7500
	T.	149600
31 Kelly, Walter J. (F)	B.	81400
Kelly, Mary S. (F)	L.	7500
Kelly, Kevin O. (F)	T.	88900
32 Akana, Akaiko G. Trs (F)	B.	97100
Wilkinson, John C./Patricia (L)	L.	7500
	T.	104600
33 Akana, Akaiko G. Trs (F)	B.	104200
Dillon, William A. Trust (L)	L.	7500
	T.	111700
34 Kona Alii Development Co. (F)	B.	104200
Brownson, Beatrice O. (L)	L.	7500
	T.	111700
35 Akana, Akaiko G. Trs (F)	B.	104200
Garrett, Linda J. (L)	L.	7500
	T.	111700
36 Kona Alii Development Co. (F)	B.	104200

Brownson, Beatrice O. Tr. (L)	L.	7500
	T.	111700
37 Oneo Bay Estate (F)	B.	151200
	L.	7500
	T.	158700
38 Boloedorn, Honh H. Jr./Mildred (F)	B.	151200
	L.	7500
	T.	158700
39 Forst, Steven (F)	B.	151200
Forst, Marlena (F)	L.	7500
	T.	158700
40 Conlay, James W./Karen L. (F)	B.	151200
	L.	7500
	T.	158700
41 Kapp, Gary M./Penny R. (L)	B.	151200
	L.	7500
	T.	158700
42 Johnson, Stephen L. (F)	B.	151200
Johnson, Sandra F. (F)	L.	7500
	T.	158700
43 Garrett, Linda J. (F)	B.	86300
Ripken, Richard A./Nancy J. (F)	L.	7500
	T.	93800
44 Altj, Sidney R. (F)	B.	102800
	L.	7500
	T.	110300
45 Akana, Akaiko G. Trs (F)	B.	111100
Garrett, Linda J. Trs (L)	L.	7500
	T.	118600
46 Beeson, Richard D./Janice (F)	B.	111100
	L.	7500
	T.	118600
47 Russell, George F. (F)	B.	111100
Russell, Keiko M. (F)	L.	7500
Russell, Floyd I. (F)	T.	118600
Russell, Donald L. (F)		
48 Froehlich, Peter/Demeksa, Elsa (F)	B.	134900
	L.	13400
	T.	148300
49 Eaton, Robert H. (F)	B.	155900
	L.	7500
	T.	163400
50 Garrett, Linda J. Trs. (F)	B.	155900
	L.	7500
	T.	163400
51 R & AK 1985 Trust (F)	B.	155900
	L.	7500
	T.	163400
52 Bruner, William/Norma Trs (F)	B.	155900



	L.	7500
	T.	163400
53 Bell, Lynette R. (F)	B.	155900
Russell, Glen C. III (F)	L.	7500
Russell, Gary C. (F)	T.	163400
Roethler, Candice C. (F)		
54 Higgins Family Trust (F)	B.	155900
	L.	7500
	T.	163400
55 Kona Alii Development Co. (F)	B.	90300
Wilkinson, John C./Patricia (L)	L.	7500
	T.	97800
56 Black, Doris H. Family Trust (F)	B.	107600
	L.	7500
	T.	115100
57 Kona Alii Development Co. (F)	B.	114600
Zaremba, Joseph E./Pennie (L)	L.	7500
	T.	122100
58 McCahon, Dorothea M. (F)	B.	114600
	L.	7500
	T.	122100
59 McKenzie, Allan L./E. Janet (F)	B.	114600
	L.	7500
	T.	122100
60 Vivatson, William M. trust (F)	B.	182000
Vivatson, Jeanne C. trust (F)	L.	13400
	T.	195400
61 Tettersington, Christina (F)	B.	182000
	L.	13400
	T.	195400
62 Sells, Charles H./Myrna M. (F)	B.	182000
	L.	13400
	T.	195400
63 Johnson, Marilyn A. Tr. (F)	B.	182000
	L.	13400
	T.	195400
64 Henderson, Philip G./Suzane (F)	B.	182000
	L.	13400
	T.	195400
65 Kona Alii Development Co. (F)	B.	182000
Burch, William L. (L)	L.	13400
	T.	195400
66 Akana, Akaiko G. Trs. (F)	B.	105400
Nagy, Frank (L)	L.	13400
	T.	118800
67 Warne, Robert W. (F)	B.	126400
	L.	13400
	T.	139800
68 Akana, Akaiko G. Trs. (F)	B.	133500

	Spalding, Michael J.	L.	13400
		T.	146900
	69 Burgess, Robert S. (F)	B.	133500
		L.	13400
		T.	146900
	70 Miller, Robert L./Doherty M. (F)	B.	133500
		L.	13400
		T.	146900
	71 Kona Alii Development Co. (F)	B.	121000
		L.	3100
		T.	24100
	72 Kona Alii Development Co.(F)	B.	263500
		L.	15900
		T.	279400
	73 Kona Alii Development Co. (F)	B.	143000
		L.	12000
		T.	155000
	74 Kona Alii Development Co. (F)	B.	15400
		L.	700
		T.	16100
7-05-009-032	State of Hawai'i (F)	B.	200
		L.	317000
		T.	317200
7-05-009-031	Kona View Plaza (F)	B.	1844500
		L.	859500
		T.	2704000
7-05-009-030	Hawaii Estate Ventures, Ltd. (F)	B.	0
	Kona View Plaza (L)	L.	574300
		T.	574300
7-05-009-025	LRG Real Estate LP (F)	B.	2073900
	Anderson, Brian A./Joan G. (L)	L.	1744800
		T.	3818700
7-05-009-043	State of Hawai'i (F)	B.	0
	Greenwell, Patricia G. Tr. (L)	L.	198800
		T.	198800
7-05-009-027	Gregory, Eugene K. (F)	B.	499800
	Anderson, Brian (L)	L.	396300
	Anderson, Brian/Joan G. (L)	T.	896100
7-05-009-023	Equity Housing Fund XXI (F)	B.	0
		L.	587100
		T.	587100

	L.	7500
	T.	163400
53 Bell, Lynette R. (F)	B.	155900
Russell, Glen C. III (F)	L.	7500
Russell, Gary C. (F)	T.	163400
Roethler, Candice C. (F)		
54 Higgins Family Trust (F)	B.	155900
	L.	7500
	T.	163400
55 Kona Alii Development Co. (F)	B.	90300
Wilkinson, John C./Patricia (L)	L.	7500
	T.	97800
56 Black, Doris H. Family Trust (F)	B.	107600
	L.	7500
	T.	115100
57 Kona Alii Development Co. (F)	B.	114600
Zaremba, Joseph E./Pennie (L)	L.	7500
	T.	122100
58 McCahon, Dorothea M. (F)	B.	114600
	L.	7500
	T.	122100
59 McKenzie, Allan L./E. Janet (F)	B.	114600
	L.	7500
	T.	122100
60 Vivatson, William M. trust (F)	B.	182000
Vivatson, Jeanne C. trust (F)	L.	13400
	T.	195400
61 Tettersington, Christina (F)	B.	182000
	L.	13400
	T.	195400
62 Sells, Charles H./Myrna M. (F)	B.	182000
	L.	13400
	T.	195400
63 Johnson, Marilyn A. Tr. (F)	B.	182000
	L.	13400
	T.	195400
64 Henderson, Philip G./Suzane (F)	B.	182000
	L.	13400
	T.	195400
65 Kona Alii Development Co. (F)	B.	182000
Burch, William L. (L)	L.	13400
	T.	195400
66 Akana, Akaiko G. Trs. (F)	B.	105400
Nagy, Frank (L)	L.	13400
	T.	118800
67 Warne, Robert W. (F)	B.	126400
	L.	13400
	T.	139800
68 Akana, Akaiko G. Trs. (F)	B.	133500

Mauka Side Of Street--Total Values (land and building)

King Kamehameha--Royal Kona Resort

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Mauka (mountain) side of street properties:

zone-section-plat-parcel	total value (land and building)
7-05-006-020	20987200
7-05-006-017	970300
7-05-006-025	975600
7-05-006-019	413000
7-05-006-014	357900
7-05-006-013	1246200
7-05-006-012	169800
7-05-006-011	431600
7-05-006-010	390600
7-05-006-009	409400
7-05-007-019	529700
7-05-007-018	764500
7-05-007-016	614600
7-05-007-023	999400
7-05-007-005	844100
7-05-007-066	100
7-05-007-058	100
7-05-007-004	3525000
7-05-008-011	248300
7-05-008-006	2417000
7-05-008-005	943300
7-05-008-003	31100
	51500
	21100
	31900
	34900
	51000
	35200
	45000
	45400
	46000
7-05-008-001	136000
	77000
	906000
	97600
	140600
	80000
	94100
	101100
	149600

88900  
104600  
111700  
158700  
93800  
110300  
118600  
148300  
163400  
97800  
115100  
122100  
195400  
146900  
24100  
279400  
155000  
16100

7-05-009-032	317200
7-05-009-031	2704000
7-05-009-030	574300
7-05-009-025	3818700
7-05-009-043	198800
7-05-009-027	896100
7-05-009-023	587100

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total for mauka side 50,759,200

Mauka Side Of Street--Building Only Values

Mauka side of street

zone-section-plat-parcel

building value

7-05-006-020	16726500
7-05-006-017	459100
7-05-006-025	589600
7-05-006-019	134100
7-05-006-014	91400
7-05-006-013	735300
7-05-006-012	0
7-05-006-011	253100
7-05-006-010	390600
7-05-006-009	175700
7-05-007-019	3121800
7-05-007-018	164700
7-05-007-016	457000
7-05-007-023	739700
7-05-007-005	584400
7-05-007-066	0
7-05-007-058	0
7-05-007-004	2002000
7-05-008-011	0
7-05-008-006	47300
7-05-008-005	354600
7-05-008-003	25300
	41000
	19400
	26100
	29100
	41700
	25300
	39200
	39600
	40200
7-05-008-001	128500
	69500
	83100
	90100
	133100
	72500
	86600
	93600
	142100
	81400
	97100

104200  
151200  
86300  
111100  
134900  
155900  
90300  
107600  
114600  
182000  
133500  
121000  
263500  
143000

7-05-009-032	200
7-05-009-031	1844500
7-05-009-030	0
7-05-009-025	0
7-05-009-043	0
7-05-009-027	499800
7-05-009-023	0

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total	32,675,000
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