

3. ST. DAVIDS PARISH

General Statement

St. David's population of 10,195 is spread over 35 settlements with generally less than 600 residents per settlement. The newly surfaced eastern main road provides excellent access to both Grenville to the north, and St. George's in the south.

St. David's is in the unique position of being able to establish a new urban centre since presently it has no town indicated as the capital of the parish. St. David's settlement has a police station, courthouse, health center and a bank. At present, Government is reviewing 3 or 4 potential sites to establish the parish capital.

No major settlements are located on the sea. Eight peninsulas form protected bays which present outstanding opportunities for tourism and residential development. Westerhall Point has over 40 upper income houses which are quite exposed to the wind which would cause concern during a hurricane. Nonetheless, the houses are situated on the upper areas of the peninsula so would probably escape significant flooding damage a hurricane.

The low lying alluvial flats of the river valleys will suffer significant destruction of agricultural crops in the event of a hurricane. As most of the settlements are established on undulating land or hillsides, flooding is not generally a problem. Drains along the road are maintained in general, but frequently residents dump logs or building materials in the road causing obstruction to traffic and road drains.

Riverbasins of concern in a tropical storm or hurricane are rivers where estuaries flow into Westerhall Bay, Petit Becaye and La Sagesse.

3.1 IDENTIFICATION OF PROBLEM AND RISK
3.1.1 Matrix: Parish St. David

<u>INFRASTRUCTURE</u>	<u>HAZARD</u>	<u>CAUSE-EFFECT LINK</u>	<u>FREQUENCY PATTERN</u>	<u>FACTORS TO BE NOTED</u>	<u>CONDITION</u> 4:excellent 3:good 2:fair 1:poor 0:none	<u>REMARKS</u>
<u>1. TRANSPORTATION</u>						
				<u>Roads:</u>		
Roads	Windstorm	Poor drainage	Heavy rainfall	.Proximity to cliffs	2	
	Rainstorm	Silting		.Drainage	1	
	Flood	Erosion		.Building lines in relation to width.	3	
	Landslide	Damage		.Surface condition and maintenance.	3	
		Low lying land				
		River overflow				
		Shallow drain				
		Cracked retaining wall.				
		Blocked culvert				
				<u>Bridges:</u>		
Bridges				.Age and structural stability.	1/3	2 bad bridges 3 good bridges
				.Load capacity	3	
				.River banks	2	
				.Tree trunks	1	
				.Obstruction in river bed from boulders.	2	
<u>2. COMMUNICATION</u>						
				<u>Telephone:</u>		
Telephone	Windstorm	Erosion	Hurricane season	.Location of poles	3	
	Rainstorm	Damage		.Condition of poles/stays	3	
	Landslide	Rotting poles		.Weight of overhead lines above.	1	
	Rockslide			.Overhanging trees and foliage over transmission lines.	3	
	Fire			<u>Postal:</u>		
Postal				Location	3	
				Security	3	
				<u>Radio:</u>		
Radio				.Location of station, and stays.	3	
				.Quality of transmission: emergency.	2	
				.Power supply	1	

3. HEALTH

Health Center Windstorm Wood rot
 Rainstorm Damage
 Fire

Heavy rainfall
 Hurricane season

.Security 1

.Location of structure 3
 away from flood areas.
 .Access to community 3
 by motor vehicle.

.State of repair of 1/3 2 bad bulgs.
 building. 2 good bulgs.

.Equipment to be 1
 servicable. 1

.Importation units 1
 equipped with emergency
 services.

.Proper Disposal of 1
 wastes.

4. EDUCATION

Classroom Windstorm Wood rot
 buildings Rainstorm Damage
 and Fire Decayed rafters
 playgrounds Poor drainage
 Low lying land
 Erosion

Heavy rainfall
 Hurricane season

.Location of buildings 2/3 5 good sch. 2
 away from areas subject fair sch.
 to flood, erosion or
 or landslides.

.Proximity to settlements 3 7 sch., good location

.Proper & regular 2/3 5 good sch., 2 fair
 maintenance of building.

.Basic amenities of 3 7 sch. with facilities
 water and electricity. of water & electricity.

.Emergency exits 3/1 4 sch. with good E.E.
 3 sch. with bad E.E.

.Adequate space around 3/2 4 good, 2 poor, 1 fair.
 building to avoid 1
 stampede in emergency.

5. SERVICE

Police Windstorm Wood rot
 Rainstorm
 Fire

Heavy rainfall
 Hurricane season

Police:

.Immediate response to 2
 fire criminal
 disturbances.

.Carry-out regular check 1
 industrial and
 commercial premises.

Fire:

.Adequately staffed stat. 0
 .Equipment to includ life 0
 saving.

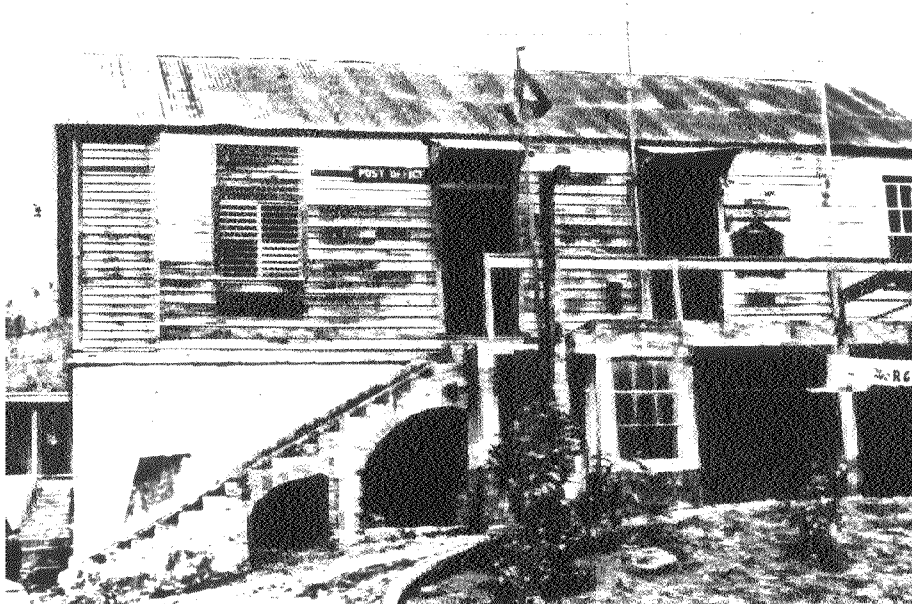
.Police to control flow 1
 of traffic in emergency.

.Regular checks of 1
 equipment.

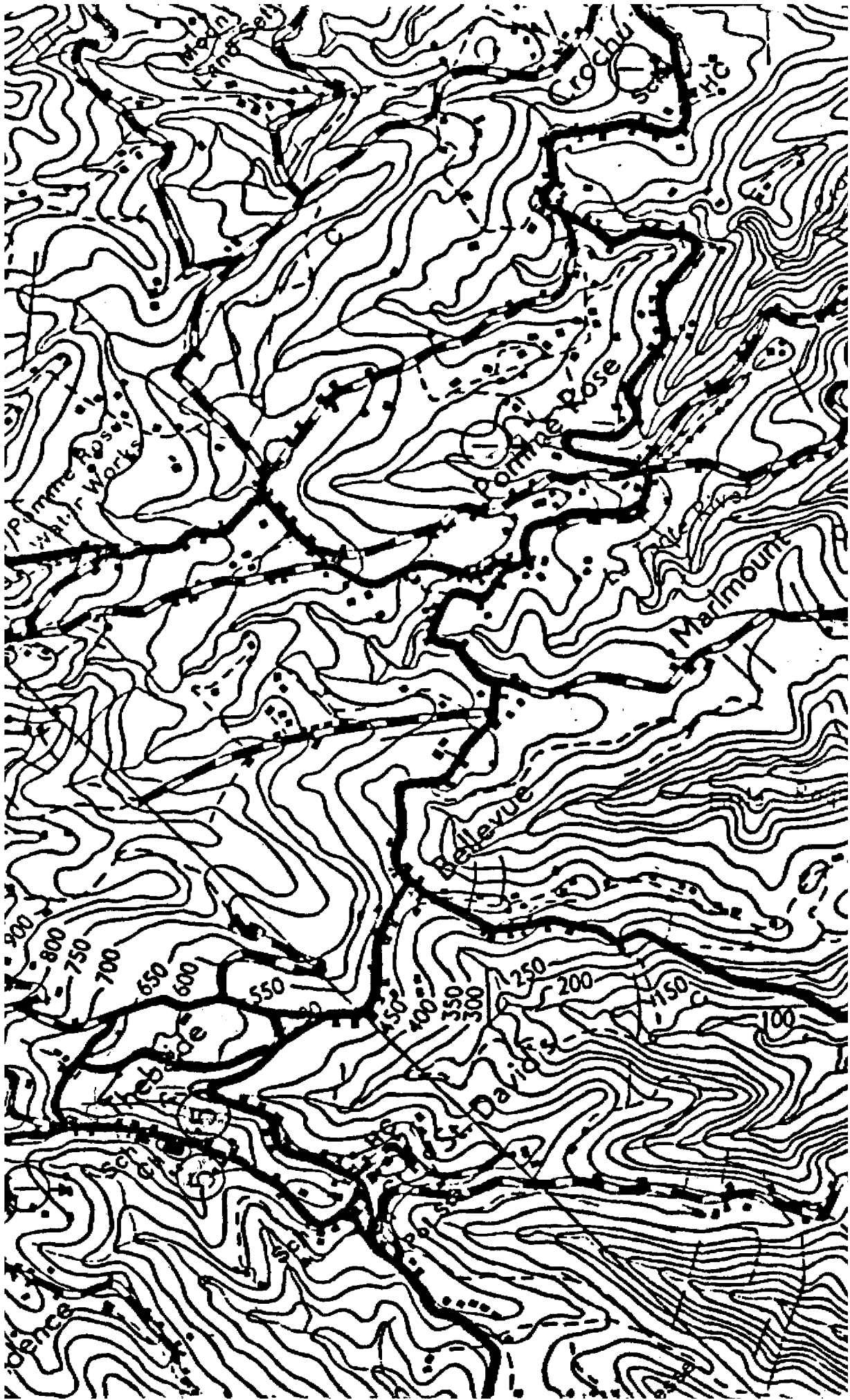
.Location and maintenance 1
 of fire hydrants.

.Advice on location of 1
 gasoline stations.

Water	Winstorm	Poor drainage	Heavy rainfall	<u>Water:</u>	
	Rainstorm	Blocked culvert	Hurricane season	.Maintenance of dams,	3
	Landslide	Faulty pump		reservoirs and service	
	Rockslide	Erosion		lines, public and	3
		Damage		domestic supply lines.	
		Low lying land		.Eliminate waste	3
				Sewerage:	
				.Monitor outfalls of	0
				public discharge.	
				.Check private disposal	2
				systems.	
				.Maintain good upkeep of	2
				vehicles.	
Public	Windstorm	Poor drainage	Heavy rainfall		
Buildings,	Rainstorm	Wood rot	Hurricane season		
Fire and	Fire	Low lying land			
Police		Damage			
Station					



Post office and police station, in need of upgrading.
Thebaide-Parish St. David



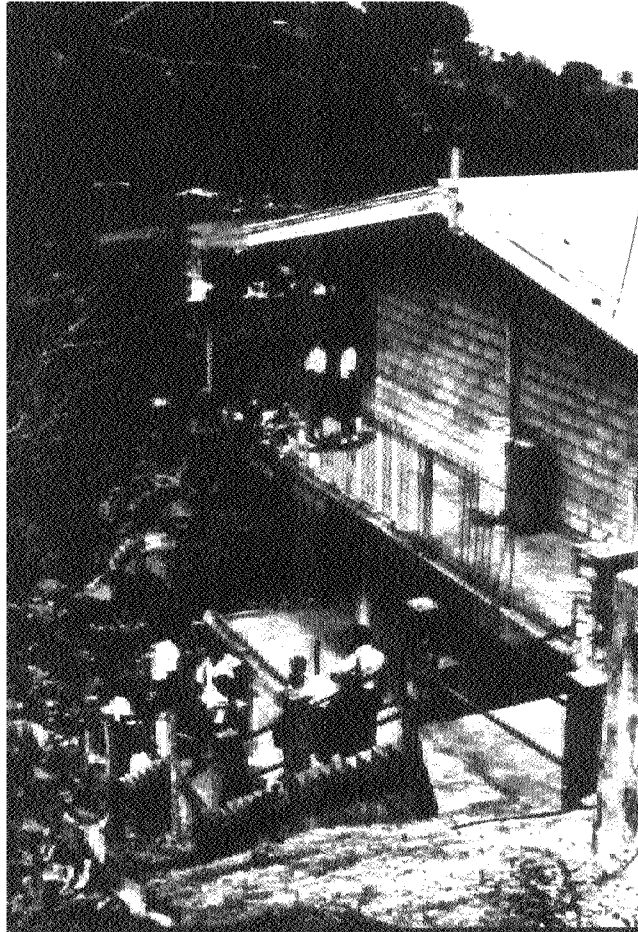
RISK ASSESSMENT MAP

Parish St. David

Scale 1:12500

TYPE OF HAZARD

- | | | |
|---|----------------------------|--|
| 1. Westerhall, Calvigny, Worborn, Mardigras, La sagesse | 1. Wind Action | 7. Erosion |
| 2. Requin, La Sagesse, Westerhall | 2. Wave Action/Storm surge | 8. Explosion and Fire |
| 3. Calvigny, La Sagesse | 3. Flood | 9. Sliding |
| 5. Thebaide, Vincennes, Windsor Forest, Providence | 4. Earthquake and Landfill | 10. Area of poor housing/
High density/Low sanitation |
| Crochu. | 5. Landslide/slippage | 11. Subsidence |
| 9. Calvigny | 6. Rockslide | |



Lack of maintenance. Defective railing on the first and second floor. Man-made hazard. Thebaide-Parish St. David.

3.2 RECOMMENDED ACTIONS

3.2.1 Short Term Action	Responsible Agency
.Prevent and prohibit residents from dumping logs or building materials in the road.	Comm. & Works Health Dept.
.Formulation of a solid waste management policy which is backed up by effective anti-litter legislation.	Science & Technology
.Renovate post-office and police buildings in Thebaide.	Planning Dept. Police Dept.
.Upgrade and renovate school fence in Thebaide (slope area).	Education Dept. Planning Dept.
3.2.2 Long Term Action	Responsible Agency
.Develop into district/market centre for agriculture produce Detailed action plan required to identify future infill development sites. Long Term development plans required to determine tourism/residential potential. Detailed Action plan required to consolidate development allowing only selective housing infilling on and between subdivisions. Physical limits of urban expansion to be established.	Physical Planning Unit