

Fire clinics aim to **PREVENT ARSON**

YONA-
Earlier this year, the Bureau of Statistics and Plans (BSP), Guam Coastal Management Program and various Government of Guam agencies and partners, hosted four free Wildland Fire Awareness & Prevention Clinics. The clinics showcased a variety of demonstrations promoting alternatives to burning trash, green waste, and recyclable items. The clinics were offered in the villages of Piti, Agat, Yona, and Umatac. The clinics were intended to promote, “Munga masongge Guahan, Don’t burn Guam!” to encourage protecting our community and natural resources from the devastating impacts from wild land fires. “We want to encourage everyone to use these alternative methods instead of resorting to-



ing fire,” said Christine Camacho of BSP.

“Families who use these more green approaches could see a

small savings in the bank along with benefits to our island.” Wildland fires burn large amounts of land, leaving behind exposed soil

FIRES ON GUAM: 2012

Type of Fire	Total
Vegetation/Grass	448
Trash/Debris	192
Unauthorized Burning	1233
Total Number of Fires	1873

FIRES ON GUAM: 2013

Type of Fire	Total
Vegetation/Grass	587
Trash/Debris	221
Unauthorized Burning	1237
Total Number of Fires	2045

Source: Guam Fire Department
Compiled by E911/Communications Bureau

which washes into our rivers and onto our coral reefs impacting our water quality, fisheries and tourism. The Coastal Management Program highlighted impacts to our coral resources from sedimentation caused by wildland

arson. Guam Fire Department and Department of Agriculture emphasized the importance of fire safety and awareness, while UOG Cooperative Extension Services and I-Recycle engaged participants with demonstrations on alternative uses for green waste and other items usually thrown in the trash. The Coconut Rhinoceros Beetle Eradication team was also available for questions regarding the proper management of mulch and compost piles to control the occurrence of rhino beetles. Kids explored the recyclable craft corner with GCC ECO Warriors and Guam EPA, Smokey Bear and Sparky the Fire Dog were not to be excluded from this awesome community event and presented people with free giveaways and raffles thanks to generous donations from Strike Zone, Coast 360 and Yoga with Olympia Terel.

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777 Route 4, Suite 5A,
Phase II Complex
Sinajana, Guam 96910

Obama Appoints Governor Calvo to Climate Change Task Force



WASHINGTON, D.C. -

Governor Eddie Calvo has been appointed to President Obama’s State, Local and Tribal Leaders Task Force on Climate Preparedness and Resilience to participate in discussions about ways the federal government responds to the needs of communities dealing with the impacts of climate change.

Meetings in D.C. and regular conference calls took place the past several months addressing the challenges of depleting resources by states and territories of constantly rebuilding in-

frastructures. However, damaged natural resources such as coral reefs were more challenging to restore as pointed out in the discussions.

Governor Calvo joins the governors of Hawaii, California, Washington, Delaware, Maryland, Illinois and Vermont in working with the interagency Council on Climate Preparedness and Resilience chaired by the White House. Their mission is to identify and suggest removal of barriers between the federal government and communities responding to emergency weather events needing federal support to strengthen their resiliency.



Message from **the Director**

Hafa Adai!

The preservation of Guam's natural resources is of great importance to all who call Guam home and to our visitors as well. The demands and strain on our ecosystems such as pollution and wildland fires continue to be a growing

concern for the Bureau of Statistics and Plans. From our island's breathtaking mountain ridges to coastlines and coral reefs, pollution continues to impact our livelihood. In this issue, we feature the efforts of the Bureau of Statistics and Plans on managing impacts to coastal areas and ensuring that projects are in compliance with federal and established laws. The newsletter also presents public outreach events as a means of engaging the

community to better understand Guam's environment and what they can do to protect natural resources.

Living in this tropical paradise has its responsibilities, and we encourage everyone to do their part in keeping Guam beautiful. We hope you will enjoy this issue of Man, Land, and Sea.

LORILEE T. CRISOSTOMO



Protecting Communities through setbacks and permits

A setback is the required distance that a building must be located away from the streets, easements, property lines, and other structures. The size of the setback is determined by Guam's Zoning Laws and the size of the setback all depends on the zoning of the property.

For a single-family or multi-family structure for instance, the minimal allowable setback for front yard is 15 feet, the side yard is 8 feet and the rear yard is 10 feet. Setback requirements for commercial and industrial areas are slightly different. There are several reasons why all residential structures should have adequate setbacks.

Setbacks also ensure that there is adequate room for emergency vehicles to maneuver between and around the properties and provides space for maintenance on the home. Setbacks provide uniformity to a neighborhood and establishes placement between the homes or buildings. Setbacks allow

ARC Applications	2013	As of August 2014
Zone Variance	8	15
Zone Change	10	4
Tentative Development Plan	3	1
Summary Zone Change	5	9
Minor Setback Variance	17	9
Conditional Use	4	1
Seashore Clearance	0	1
TOTAL Reviewed	47	40

some privacy between neighbors and also provide distance between neighbors to lessen noise and odors.

Setbacks also give residents space to properly place septic tanks and leaching fields in areas where public sewer lines are not present. Another reason for setbacks is to give distance to provide space for light and air circulation, and provide open space for landscaping and recreational use.

Guam's Zoning Law established regulations in order to : encourage the most appropriate uses of land: provide

adequate open spaces around buildings; prevent undue concentration of population; assure adequate provisions of schools, parks, recreation and other infrastructure; and control the types of development which would create a nuisance and/or a health and safety hazard.

In general, setbacks are required when building your home or any structure for general welfare and safety.

To propose a development that does not comply with the zoning regu-

lations, you may apply for a zone change through the Guam Land Use Commission, a decision-making body empowered to grant subdivisions approvals, zone changes, conditional uses and variance from Guam land use laws and regulations. The Guam Coastal Management Program represents Bureau of Statistics and Plans with seven other agencies forming the Application Review Committee providing technical review to the commission.

For more information on what permits are required for certain activities please visit the One Stop Center at the Department of Public Works compound or visit our website: bsp.guam.gov, to view the Guidebook to Development Requirements on Guam.

This guide delineates each type of requirement for development by summarizing its purpose and nature, citing the Government agency with authority for approval, describes the application review process, and presents a sample of appropriate applications and suggests additional references for more detailed information.

GCMP leads federal consistency reviews



Bureau of Statistics and Plans and its network partners recently toured Finegayen, the proposed site for the construction of a main cantonment to support the relocation of U.S. Marines. The site visit was in accordance with the federal consistency review by Guam Coastal Management Program. Government representatives are from BSP: Director Lorilee Crisostomo, Esther Taitague, Lola Leon Guerrero, Monica Guerrero, Terry Perez, Brenda Atalig, Millie Erguiza, Mely De Leon, Christine Camacho, Tom Quinata and Estella Tapia. AG's Office: Jessica Toft; GWA: Vangie Lujan; Guam EPA: Angel Marquez, Ray Calvo, Johnny Abedania; Governor's Office: Mark Calvo; DPW director Carl Dominguez; DOAG: Deputy Director Matthew Sablan, Tino Aguon, Jeff Quitugua; NOAA : Adrienne Loerzel and Val Brown Hosting the tour are NavFac DPRI officials Albert Borja, Mark Cruz, Alex Oviedo, Rodney Palacios, Stephanie Aromin and Jennifer Farley.

HAGATNA-
In 1972, the Coastal Zone Management Act (CZMA) was adopted to help states and territories in managing impacts to coastal areas. This created the concept of federal consistency, a powerful tool that state governments can use to protect natural resource areas and waterways.

Simply put, any federal agency that is planning an activity in a coastal area must make sure they are consistent to the maximum extent practicable policies of the Guam Coastal Management Program in accordance with the CZMA (U.S. PL. 92-583) as amended (U.S.

Federal Consistency Projects		
	2013	as of July 2014
Federal Activities	18	19
Federal License/Permit	31	15
Federal Assistance	11	46
Total Reviewed	60	80

P.L. 94-370). Federal consistency is a program run by the local state, and approved by the federal government, that has the ability to review actions by federal agencies and make sure they are following the right laws and regulations locally.

Guam's lead for federal consistency reviews is housed at the Guam Coastal Management Program (GCMP) of the Bureau of Statistics and Plans. "It is very important to review projects and make sure they have made plans to be consistent with Guam's laws

and regulations," said Mely De Leon, lead planner for Federal Consistency. "We can help protect natural resources through careful planning and making sure all aspects are included into the initial phases of projects." The review process usually includes multiple agencies including Government of Guam organizations and federal agencies. "We typically work closely with the Guam Department of Agriculture, Guam Environmental Protection Agency and the U.S. Army Corps of Engineers to make sure we are not missing any aspects or potential impacts from a proposed project," De Leon said.

Using green waste for composting

YONA -

Phoebe Wall with the UOG Cooperative Extension Service demonstrated sheet mulching and composting techniques to community members who participated in the four free fire clinics offered earlier this year. Wall utilized a large aquarium tank to demonstrate the proper layering of organic materials used for the demonstrations.

This approach made it easier for participants to see and understand the layering concept in sheet mulching. Sheet mulching also

known as “lasagna gardening” or “layered composting” is a no-till gardening/farming method which incorporates a four layered mulch system. It imitates what naturally occurs in an undisturbed forest and is a low maintenance practice that promotes healthy productive soil.

Benefits of sheet mulching are: water conservation, suppresses weeds, keeps soil cool in hot weather, encourages root development, increases plants health, and releases nutrients slowly by understanding the differences between greens (high in nitrogen) and browns (high in carbon). Greens are

made up of materials such as kitchen wastes, coffee grounds, grass clippings, chicken, pig and cow manure. Examples of browns are twigs, branches, leaves, news papers, and cardboard, to name a few.

Materials high in nitrogen decompose much faster than materials with high carbon. Meats, bones, fatty foods, pet litter, dead animals, and human/pct manure are not recommended for composting.

For more information on composting and mulching contact the UOG Cooperative Extension Service. Munga masongge Guahan, Don't burn Guam!

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3rd Annual Pig derby a 'Wild' Success

HAGATNA- The Guam Coastal Management Program, Bureau of Statistics and Plans (BSP-GCMP) and Guam Department of Agriculture hosted the third annual Pig Hunting Derby and Pork in the Park Cook-Off event last fall. Special thanks to I-Recycle and the Farmers Cooperative Association of Guam for helping to build support for the derby and cook-off. The derby and cook-off are Guam's Micronesia Challenge events. Essentially, the community comes together to celebrate protecting and sustaining the island's terrestrial marine and cultural resources and heritage. "Tana' maolek mo'-na Guahan, let's make a good future for Guam."

The event had about 113

Winners of the derby are:

MOST PIGS:	Archery	NO. of PIGS
First Place	Felix Quan	3
Second Place	Justine Alvarez	3
Third Place	Jeff Kinard	1

MOST PIGS:	Firearms	NO. of PIGS
First Place	Michael Perez	7
Second Place	Will Taft	5
Third Place	Vincent Benevente	4

LARGEST PIG:	Firearms & Archery	WEIGHT
First Place	Joe Benavente	275 lbs.
Second Place	Joey Lopez	210 lbs.
Third Place	Peter Kautz	188 lbs.

participants which included hunters and hunter support plus over 60 volunteers from various Government of Guam Agencies and organizations. Every participant, including

volunteers were required to attend a free Hunter Safety Briefing prior to participating in the derby. A total of 60 pigs were brought in, 11 by bow and 49 by firearms.

Pork in the Park Winners Announced



The Pork in the Park Cook-off Winners were either hunters in the Pig Hunting Derby or individuals who received meat from derby participants. 'Feral meat' was the name of the game and the challenge was to create a dish so flavorful and tempting that non-pork consumers were brought to the table.

Held at the Adelup Beach Park, the cook-off included displays from the Guam Department of Agriculture, U.S. Department of Agriculture-Wildlife Service and NRCS, GCC EcoWarriors, I-Recycle, Coconut Rhinoceros Beetle Eradication team, Guam EPA, Department of Public Health & Social Services, Guam Micronesia Challenge, Guam Coastal Management Program, and entertainment from the DL Perez Elementary School Chamorro Class.

The natural resource mascots

were not to be excluded from this educational event. A mascot parade took place bringing together, Sparky the Fire Dog, Smokey Bear, Piti Pete, Chelu the Koko Bird, the Angel Flame Fish. Additionally, awesome prizes and giveaways were raffled to all who came and joined in on the free tastings offered during the cook-off. Sponsors for the derby and cook-off included: Primos Construction, Guam Visitors Bureau, Triple J Auto Group, Island King Imports, Micronesia Chefs Association, Meskla, Proa Restaurant, Delmonico's Kitchen, Le Tasi Bake Shop, PCR Environmental, Inc., Guam EPA Employees Association, Docomo Pacific, Pay-Less Supermarkets, Joe Okada "Tunu" and Bryan Duenas.

Winners of the cook-off are:

COOK-OFF WINNERS

Pot Category	Kevin Aguon - Still Smokin'
Pit Category	Chef Darren Dragon

PEOPLE'S CHOICE WINNERS

First Place	Team Kanta Babui - Joe Blas
Second Place	Team Suufa' - Peter Kautz

Modernizing the Port

Piti - On December 23, 2013, the required public hearing for the Jose D. Leon Guerrero Master Plan Update 2013 Report was held at the Port Authority of Guam Training Room called jointly by the Director of Bureau of Statistics and Plans (BSP) and the General Manager of the Port Authority inviting the

public to attend and provide comments. In addition, the Master Plan Update was made available at the Port's website and hard copies were available at BSP's Guam Coastal Management Program Office. As mandated by Title 5 of the Guam Code Annotated, Subsections 1205 & 1206, for the adoption of plans, all "Comprehensive Development Plans" have to start the public review process through BSP.

In addition to BSP's land use review, BSP coordinated technical reviews from its networking Government of Guam agencies: the Department of Land Management, Guam EPA, Department of Parks and Recreation, Department of Public Works, and the Department of Agriculture. Governor Eddie Calvo transmitted the Port's Master Plan Update to the Guam Legislature shortly after BSP

submitted its recommendation to the Governor to approve the Port's Master Plan Update as an official element to Guam's Comprehensive Development Plan for it addresses the Port's modernization in the next five years, reduction of the military build-up, and securing financial self-sufficiency and sustainability. Guam Public Law 32-155 was signed into law on May 21, 2014 by Lieutenant Governor Ray Tenorio, Acting Governor at that time, adopting the Guam Master Plan Update 2013 for the improvement projects schedule and land use designations of the Commercial Port.



Working on Merizo Marine Resources



With the technical assistance of NOAA's Western Pacific Fishery Management Council, the Merizo or Melesso residents and Merizo Mayor Ernest Chargualaf spent many hours at meetings and workshops addressing the needs and challenges for the village of Merizo to manage its coastal and marine resources.

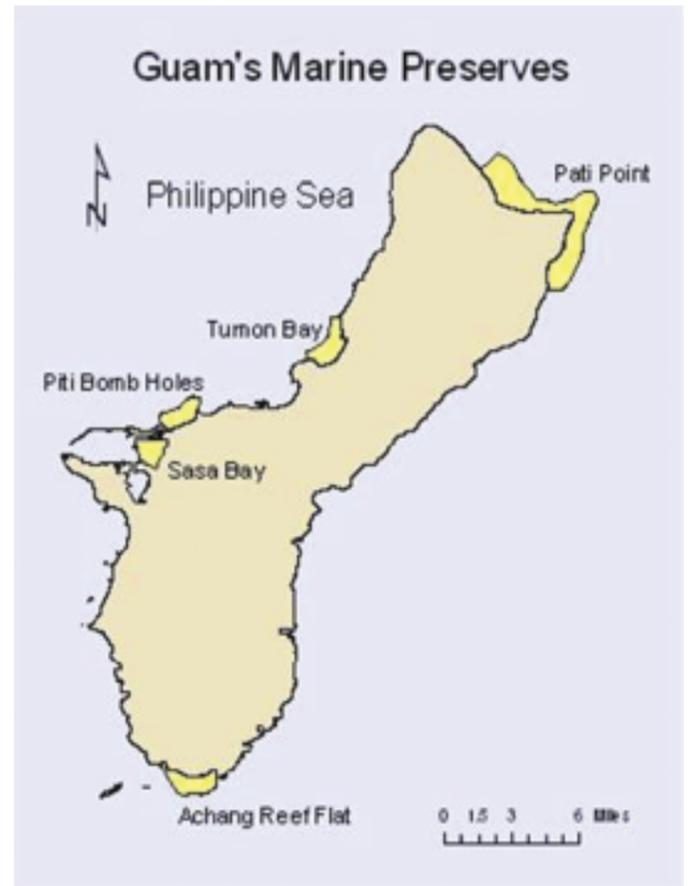
Section 63133 mandated by Public Law 29-127 basically states that the Chamorro people have specific rights to off-shore fishing and harvesting of resources in reference to indigenous fishing rights.

Since village resources are best understood at the village level, residents met at the Meri-

zo Community Center to discuss local fishing access to seasonal runs of traditional harvested fish, conduct regulatory monitoring and advisory of PCBs around Cocos Island and Lagoon inclusive of oceanographic patterns, address lagoon conflicting water-use activities through zoning, establish Committee of Elders at Mayor's Office, and much more.

The Community-Based Management Plan for Melesso Coastal & Marine Resources citing the discussions at the workshops and recommendations by the village residents were forwarded to Department of Agriculture providing input to the development of the rules and regulations regarding indigenous fishing rights.

Left: Merizo Mayor, Ernest Chargualaf (center), welcomes technical assistance from Charles Kaaiai and Mark Mitsuyasu of NOAA's Western Pacific Regional Fisheries Management Council at community-based workshops held at Merizo Community Center in August & November 2013.



Guardians of the Reef Program

Funded by NOAA grants of U.S. Department of Commerce, the Guardians of the Reef outreach program continues for the 9th year to be implemented by the Bureau of Statistics and Plans.

The intent of this program teaches our youth the importance of how Guam's coral reefs are to the fish populations and marine tourism.

This outreach started off with training Juniors and Seniors from George Washington High School, Simon Sanchez, John F. Kennedy, and Southern High School to be Guardians of the Reef.

On January 25, 2014, over 80 students attended the training at the Holiday Inn Resort to develop lesson plans for 3rd graders and 5th graders about basic coral reef biology.

In March and April, the Guardians conducted presen-

tations to 3rd graders and puppet shows to 5th graders reaching over 3200 students in the Guam Department of Education elementary schools.

Although the main focus of the Guardians of the Reef outreach was bringing awareness of protecting coral reefs, public speaking, teamwork building, and service learning were the benefits too for the Juniors and Seniors who participated on this fun and exciting activity.

Marine development continues

Hawaii -

The Bureau of Statistics and Plans in collaboration with the Department of Agriculture is pleased to announce that the 2014 Guam Marine Conservation Plan (MCP) was approved by the National Marine Fisheries Service (NMFS) on August 04, 2014.

Pursuant to the Magnuson-Stevens Fishery Conservation Management Act, the Western Pacific Regional Fishery Management Council initially would have to approve Guam's MCP for adoption by the NMFS.

The Council approved Guam's plan during its 160th Council Meeting in Hawaii this past July. Guam is required to submit a plan every three years identifying how to spend the funds set aside from fees collected by the United States from



Photo by Mitch Warner

Pacific Insular Areas Fishery Agreements within Guam's 200-mile Exclusive Economic Zone including receiving Sustainable Fishery dollars.

On-going projects benefitting from a previous plan are the ADA Accessible Fishing Platform, the Rehabilitation and Improvements

to the Agat Small Boat-Marina Dock A and the Manahak Hatchery and Restocking project.

The 2014 Guam Marine Conservation Plan identifies priority projects that Guam desires funds for such as the Repairs to the Refueling Piers, Feasibility of Boat Ramp at East Side of Guam, Volunteer Fishery Data Collection Project, and much more.

The Bureau of Statistics and Plans extends its Dangkulo na Si Yu'os Ma'ase to the Department of Agriculture, the Port Authority of Guam, the University of Guam's Marine Laboratory and Cooperative Extension Service, the Guam Fisherman's Cooperative Association and the Guam Association of Saltwater Anglers for their contribution to developing the new approved plan.

Our office has moved

- The Guam Coastal Management Program (GCMP) of the Bureau of Statistics and Plans is now located in the Sinajana Complex.

- GCMP staff may be reached by calling 475-9666, 475-9647 or by emailing Esther.Taitague@BSP.guam.gov, Planner, Guam Coastal Management Program, Bureau of Statistics and Plans.

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Save the date!



- For information on cleanup sites, email Terry.Perez@bsp.guam.gov or Brenda.Atalig@bsp.guam.gov or call 475-9666

