

E. Coli Reduction BMP Menu

Livestock BMPs

Suggested Priority	BMP	Details	Regional WPPs that Implemented this BMP
High	<p>Voluntary, site-specific water quality management plans (WQMPs) for individual operations</p> <p><i>Recommended for certain subwatersheds within Comal County in Geronimo and Alligator Creek WPP</i></p>	<ul style="list-style-type: none"> Develop and implement individual or whole farm conservation plans. Implement the recommended number of conservation plans per livestock operation in each subwatershed (based on an estimate calculation). Provides funding for landowners to implement structural or operational BMPs 	<ul style="list-style-type: none"> Plum Creek Mill Creek Geronimo and Alligator Creeks Buck Creek Attoyac Bayou
High	Conduct Outreach and Education	<ul style="list-style-type: none"> Deliver <i>Lone Star Healthy Streams</i> programming to watershed landowners Educate landowners on structural and operational BMPs that will reduce time animals spend in the creek or riparian corridor 	<ul style="list-style-type: none"> Buck Creek Attoyac Bayou
Low	<p>Prescribe BMPs that will reduce time animals spend in the creek or riparian corridor</p> <p><i>Rationale: There are limited livestock ranches in the watershed, and implementation funding would be challenging without a WQMP</i></p>	<ul style="list-style-type: none"> Identify opportunities (i.e. fencing, filter strips, prescribed grazing, stream crossing, or alternative water sources) to keep livestock out of the waterways. 	<ul style="list-style-type: none"> Buck Creek (discussed but implemented WQMPs) Attoyac Bayou (discussed but implemented WQMPs)

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Stormwater BMPs (Note for all suggested BMPs, the City will review and confirm 319 and MS4 funding are properly applied to respective, appropriate WPP and MS4 activities)

Suggested Priority	BMP	Details	Regional WPPs that Implemented this BMP
High	<p>Implementation of recommended stormwater BMPs outside of City Limits and in Garden Ridge (outside of CoNB MS4 permit)</p> <p style="color: red; font-size: small;">Recommended for City of New Braunfels in Geronimo and Alligator Creek WPP</p>	<ul style="list-style-type: none"> • When funding is available, implement control measures such as: <ul style="list-style-type: none"> ○ Public education and outreach ○ Detection and elimination of illicit discharges ○ Control for stormwater runoff from construction sites ○ Post-construction stormwater management in areas (not covered by CoNB MS4 permit) of new development and redevelopment ○ Pollution prevention and “good housekeeping” measures ○ Installation of stormwater detention facilities (outside City ETJ) ○ Stormwater detention pond retrofits to enhance reduction of bacteria ○ Recognition program for voluntary bacteria reduction measures incorporated in new developments. 	<p>Adapted from:</p> <ul style="list-style-type: none"> • Mill Creek • Geronimo and Alligator Creeks
High	<p>Augment the City’s Education Program on Fats, Oils and Grease with <i>E. coli</i> pollution education</p>	<ul style="list-style-type: none"> • Public education on <i>E. coli</i> pollution 	<p>Adapted from:</p> <ul style="list-style-type: none"> • Mill Creek • Geronimo and Alligator Creeks
Moderate	<p>Funding for engineering analyses for structural BMPs outside of City Limits and in Garden Ridge (outside of CoNB MS4 Permit)</p> <p style="color: red; font-size: small;">Recommended for City of New Braunfels in Geronimo and Alligator Creek WPP</p>	<ul style="list-style-type: none"> • Identify funding sources* (outside current MS4 funding) to facilitate engineering analysis. • Conduct stormwater engineering analyses and city-wide assessments to determine placement of structural management measures in individual cities. 	<ul style="list-style-type: none"> • Plum Creek • Mill Creek • Geronimo and Alligator Creeks

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Suggested Priority	BMP	Details	Regional WPPs that Implemented this BMP
Moderate	Implement Notification Policy	<ul style="list-style-type: none"> Implement a policy to notify TCEQ EAA of new developments of OSSF permits that could contribute stormwater for investigation 	<ul style="list-style-type: none"> Suggested by Work Group
Low	Implement Stormwater BMPs within CoNB City Limits <i>Rationale: See description</i>	<ul style="list-style-type: none"> These are covered under the existing MS4 permit (will be discussed but cannot receive funding through this program) 	<ul style="list-style-type: none"> Mill Creek Geronimo and Alligator Creeks

*Note BMP implementation funding can only be used for BMPs not already covered in the City's MS4 program or funded as part of a prior WPP. The Geronimo and Alligator Creek WPP recommended, for the City of New Braunfels, to implement non-structural components of MS4 permits on a voluntary basis in advance of program requirements and to maximize public outreach and participation on MS4 implementation. The City will also continue implementing the current MS4 activities in parallel (subdivisions in the ETJ are covered under this permit).

Pet BMPs

Suggested Priority	BMP	Details	Regional WPPs that Implemented this BMP
High	Intensive public outreach targeting the city limits and residential developments in unincorporated areas of the county <i>Recommended for City of New Braunfels in Geronimo and Alligator Creek WPP</i>	<ul style="list-style-type: none"> Provide public education information at locations where pet vaccinations and adoptions are performed. Provide signage informing public of the need to dispose of pet waste and other ordinance requirements. 	<ul style="list-style-type: none"> Plum Creek Geronimo and Alligator Creeks
High	Install and manage pet waste stations <i>Note from City: These are in place in many of the City's parks.</i>	<ul style="list-style-type: none"> In city parks, install pet waste stations (bags and disposal unit) to encourage proper management. Focus on impervious cover areas such as downtown, hike/bike trails, Gruene, apartment communities (esp. Landmark), Landa Park, Panther Canyon, 	<ul style="list-style-type: none"> Plum Creek Geronimo and Alligator Creeks

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Suggested Priority	BMP	Details	Regional WPPs that Implemented this BMP
		HOAs, areas with large densities of OSSFs)	
Moderate	Develop tailored pet solutions for individual areas	<ul style="list-style-type: none"> Evaluate the number of dogs to be managed based on the total number of dogs in the area and the necessary bacteria load reduction. Tailor pet solutions to individual areas, based on their needs and the likely impacts. 	<ul style="list-style-type: none"> Plum Creek
Moderate	Pass or modify City ordinances <i>Described as already in place for City of New Braunfels in Geronimo and Alligator Creek WPP</i> <i>Rationale: NB City Code Sec. 6-80 requires that owners pick up pet waste in public areas and on private property.</i>	<ul style="list-style-type: none"> Enact ordinances which require pet owners to pick-up and dispose of pet waste in public areas. Install signs informing the public of the need to dispose of pet waste. Consider requiring waste on private property, especially near stream areas, to be picked up. 	<ul style="list-style-type: none"> Plum Creek Mill Creek
Low	Spay/Neuter Program <i>Recommended for City of New Braunfels in Geronimo and Alligator Creek WPP</i> <i>Rationale: Overpopulation isn't currently an issue in this watershed</i>	<ul style="list-style-type: none"> Provide funding to dog and cat owners to have pets spayed or neutered at little or no cost. 	<ul style="list-style-type: none"> Mill Creek Geronimo and Alligator Creeks
Low	Move Animal Shelter(s) Upland <i>Rationale: No animal shelters were identified in the watershed that were adjacent to the creek or river</i>	<ul style="list-style-type: none"> Identify any animal facilities located near streams and consider relocating. 	<ul style="list-style-type: none"> Mill Creek

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Wastewater BMPs

Suggested Priority	BMP	Details	Regional WPPs that Implemented this BMP
Low	<p>Daily inspections of wastewater collection system</p> <p><i>Rationale: NBU has an inspection program in place, and has online SCADA monitoring</i></p>	<ul style="list-style-type: none"> Inspect lift stations and equip stations with dialers and/or supervisory control and data acquisition (SCADA) systems. 	<ul style="list-style-type: none"> Plum Creek
Low	<p>Apply for grants to replace, rehab or clean pipelines</p> <p><i>Rationale: NBU has a maintenance and replacement program in place</i></p>	<ul style="list-style-type: none"> Process will involve engineering analysis, financial planning, critical public outreach and education. Specific areas can be targeted using smoke testing or closed-circuit television (CCTV) inspection. 	<ul style="list-style-type: none"> Plum Creek
Low	<p>Explore the possibility of extending sewer collection/treatment systems</p> <p>Recommended for New Braunfels Utilities in Geronimo and Alligator Creek WPP</p> <p><i>Rationale: The relative contribution of human E. coli compared to other sources is low</i></p>	<ul style="list-style-type: none"> Locate septic systems within the city limits and connect those residences to central wastewater treatment. Explore the possibility of extending or adding stormwater collection/treatment systems. 	<ul style="list-style-type: none"> Plum Creek Mill Creek Geronimo and Alligator Creeks
Low	<p>Implement actions in Sanitary Sewer Overflow Initiatives (SSO)</p> <p>Recommended for City of New Braunfels in Geronimo and Alligator Creek WPP</p> <p><i>Rationale: NBU has an SSO Initiative which is currently being implemented.</i></p>	<ul style="list-style-type: none"> Identify high risk areas and documented problems in a collection system, and establish a plan to address current and future issues. Could include: <ul style="list-style-type: none"> Establishment of maintenance schedule for lift stations Inspection, replacement, rehab and cleaning of the wastewater collection system 	<ul style="list-style-type: none"> Mill Creek Geronimo and Alligator Creeks

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Suggested Priority	BMP	Details	Regional WPPs that Implemented this BMP
		<ul style="list-style-type: none"> ○ Procedure for involving operations personnel in engineering design review ○ Expansion of the fats, oils and grease program ○ Corrective action when acts of vandalism are found ● Possible tools: smoke testing, CCTV, and cleanout cap inspection 	
Low	<p>Texas Pollutant Discharge Elimination System (TPDES) permits (for <u>future</u> discharges in Comal WPP)</p> <p><i>Rationale: No future discharges are currently planned, and the relative contribution of human E. coli compared to other sources is low</i></p>	<ul style="list-style-type: none"> ● Adopt a 5/5/2/1 Biochemical Oxygen Demand (BOD)/Total Suspended Solids (TSS) /Ammonia (NH₃)/Total Phosphorus (TP) effluent standard to protect water quality. ● “More stringent effluent limits should affect a reduction in bacteria entering the waterway.” – Plum Creek WPP ● Texas Commission on Environmental Quality (TCEQ) could implement an unannounced inspection program for wastewater treatment facilities (WWTFs) to encourage and ensure compliance with permit requirements. 	<ul style="list-style-type: none"> ● Plum Creek ● Mill Creek
Low	<p>Wastewater compact (for <u>future</u> discharges in the watershed)</p> <p><i>Rationale: No future discharges are currently planned, and the relative contribution of human E. coli compared to other sources is low</i></p>	<ul style="list-style-type: none"> ● WWTFs will agree to work towards better effluent water quality. ● Increase WWTF self-monitoring. ● Increase training for WWTF operators. 	<ul style="list-style-type: none"> ● Plum Creek

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Septic System BMPs

Suggested Priority	BMP	Details	Regional WPPs that Implemented this BMP
High	<p>Education and assistance programs</p> <p style="color: red; font-size: small;">Recommended for select subwatersheds in Comal County in Geronimo and Alligator Creek WPP</p>	<ul style="list-style-type: none"> Extension service has a course for aerobic systems to certify landowners to do their own maintenance) Provide information on proper operation and maintenance of septic systems, how to identify a failing system, and guidance on how to repair or replace a system. Target homeowners/landowners, installers, maintenance providers and sludge haulers 	<ul style="list-style-type: none"> Buck Creek Mill Creek Geronimo and Alligator Creeks
Moderate	<p>Ordinance requiring inspection and maintenance by trained professionals</p> <p style="color: red; font-size: small;">Recommended that existing programs be continued for select subwatersheds in Comal County in Geronimo and Alligator Creek WPP</p>	<ul style="list-style-type: none"> Have trained professionals inspect targeted septic systems (rather than residents) and prioritize locations based upon the Spatially Explicit Load Enrichment Calculation Tool (SELECT) tool Offer approved training for residents who want to manage their own systems Hire additional staff needed to implement and assist in inspection and enforcement programs Seek funding to assist homeowners with repair of failing septic systems or decommissioning old systems. 	<p>Adapted from:</p> <ul style="list-style-type: none"> Plum Creek Mill Creek Geronimo and Alligator Creeks Buck Creek Attoyac Bayou
Low	<p>Identify funding sources to extend sanitary sewer service</p>	<ul style="list-style-type: none"> Acquire funding sources for design and construction of a 	<ul style="list-style-type: none"> Buck Creek

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	<p>and/or stormwater conveyance</p> <p><i>Recommended for select subwatersheds in Comal County in Geronimo and Alligator Creek WPP</i></p> <p><i>Rationale: Human contribution is relatively low compared to other sources, and the County is quickly notified of any failing systems and reacts quickly</i></p>	<p>stormwater conveyance system.</p> <ul style="list-style-type: none"> Identifying funding to extend sanitary sewer services to areas not served by the collection system. Engineering analysis, financial planning, critical public outreach and education. 	<ul style="list-style-type: none"> Geronimo and Alligator Creeks
Low	<p>Update septic system permits and create a centralized database</p> <p><i>Recommended for select subwatersheds in Comal County in Geronimo and Alligator Creek WPP</i></p> <p><i>Rationale: Permits are updated within Comal County</i></p>	<ul style="list-style-type: none"> Central database will allow patterns of system installation and failure to be monitored in order to predict, prevent and respond to future issues. 	<ul style="list-style-type: none"> Plum Creek Buck Creek Mill Creek Geronimo and Alligator Creeks Attoyac Bayou
Low	<p>Regional Compact (Interlocal Agreement) to address septic systems</p> <p><i>Rationale: Human contribution is relatively low compared to other sources, and the County is quickly notified of any failing systems and reacts quickly</i></p>	<ul style="list-style-type: none"> Compact could serve to mitigate effects of failing septic systems. Key components could include: <ul style="list-style-type: none"> Where possible, connect developments of 10 or more homes to a wastewater facility. For long-term operation, WWTFs should be operated by public entities. Compact parties jointly review proposed wastewater projects/plans. 	<ul style="list-style-type: none"> Plum Creek
Low	<p>Investigate incorporation or construction of WWTF</p>	<ul style="list-style-type: none"> Could include construction or tie-in to neighboring facilities. Could ensure new facilities comply with TPDES permits. 	<ul style="list-style-type: none"> Plum Creek

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Suggested Priority	BMP	Details	Regional WPPs that Implemented this BMP
	<i>Rationale: Human contribution is relatively low compared to other sources, and the County is quickly notified of any failing systems and reacts quickly</i>		

Overabundant Urban Deer BMPs

Suggested Priority	BMP	Details	Regional WPPs that Implemented this BMP
Critical!!	<u>Mandatory</u> implementation of management practices that will modify animal use of the riparian area	<ul style="list-style-type: none"> Enact an ordinance(s) which prevents park-goers from feeding all wildlife within the city limits Signage communicating ordinances Enforcement and penalty program Flexibility to enforce or not enforce specific species Enforcement of leash laws (even cats) No feeding on private property Establishment of a special zone around parks and rivers Strongly recommend an ordinance in the County as well 	<ul style="list-style-type: none"> None
High	Deer Surveys <i>Recommended for select subwatersheds in Comal County in Geronimo and Alligator Creek WPP.</i>	<ul style="list-style-type: none"> Conduct deer surveys to estimate population numbers on an annual basis (targeting city limits and neighborhoods out Hwy 46) 	<ul style="list-style-type: none"> Plum Creek Mill Creek Geronimo and Alligator Creeks

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Suggested Priority	BMP	Details	Regional WPPs that Implemented this BMP
		<ul style="list-style-type: none"> • The results will be used to determine effectiveness of BMPs and additional number of individuals that need to be managed to effectively reduce <i>E. coli</i>. 	
High	<p><u>Voluntary</u> management practices</p>	<ul style="list-style-type: none"> • Implement <u>voluntary</u> management practices (esp. rural areas and Hwy 46) including: • Voluntary do-not-feed programs with HOAs • Education programs 	<ul style="list-style-type: none"> • Buck Creek
High	<p>Active management of deer for water quality</p> <p><i>Reference: TPWD Deer Management within Suburban Areas</i></p>	<ul style="list-style-type: none"> • Actively manage overabundant deer through lethal control, but out of sight of neighborhoods • May require the approval of city government and Texas Parks and Wildlife Department (TPWD) • Initial reduction phase: <ul style="list-style-type: none"> ○ Reduce population by half ○ Hunt/sharpsheet deer ○ Explore the Texas Hunters for the Hungry program • Maintenance Phase: <ul style="list-style-type: none"> ○ Maintain deer densities at target levels • Have long-term management plans in place before the initial reduction phase 	<ul style="list-style-type: none"> • None

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Suggested Priority	BMP	Details	Regional WPPs that Implemented this BMP
High	Intensive public outreach	<ul style="list-style-type: none"> Target citizens, homeowners, apartment communities, HOAs and POAs Provide public education information at locations where extensive wildlife feeding takes place. Provide signage informing public of the reasons behind feeding restrictions. 	<ul style="list-style-type: none"> None
Low	<p>Active management of native wildlife for water quality purposes is generally not promoted ... and will not be included</p> <p>Recommended for select subwatersheds in Comal County in Geronimo and Alligator Creek WPP.</p> <p><i>Rationale: Wildlife are a large percentage of the E. coli measured in this watershed</i></p>	<ul style="list-style-type: none"> Considered wildlife a “background” source No BMPs targeted at reduction of <i>E. coli</i> loading from wildlife 	<ul style="list-style-type: none"> Plum Creek Mill Creek Geronimo and Alligator Creeks
Low	<p>Construct deer-proof fencing</p> <p><i>Rationale: May interfere with floodplains; Difficult to implement due to large area that would require fencing</i></p>	<ul style="list-style-type: none"> Construct fencing to keep deer out of the watershed 	<ul style="list-style-type: none"> None
Low	<p>Scare deer away</p> <p><i>Rationale: As deer are not only in one location, this would be difficult to implement and likely not effective</i></p>	<ul style="list-style-type: none"> Scare deer away using noise, soft-guns, etc. 	<ul style="list-style-type: none"> None
Low	<p>Relocate deer</p> <p><i>Rationale: Requires trapping in neighborhoods (deer often get hurt; capture myopathy); limited potential locations for relocation</i></p>	<ul style="list-style-type: none"> Tap and relocate deer to another area 	<ul style="list-style-type: none"> None

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Suggested Priority	BMP	Details	Regional WPPs that Implemented this BMP
	<i>due to maximum densities allowed</i>		
Low	Sterilize deer <i>Rationale: See description</i>	<ul style="list-style-type: none"> • Costly (e.g., \$1000/deer) • Not humane • Toxins can get washed into watershed and are not a registered pesticide in Texas • Not legal without a University research permit • Only effective if treat 75-95% of females • Only effective if less than 10% of herd is moving in and out of population • Requires either trapping for surgery or recovery of dart/needles 	<ul style="list-style-type: none"> • None

Overabundant Urban Avian Wildlife BMPs

Suggested Priority	BMP	• Details	• Regional WPPs that Implemented this BMP
Critical!!	<u>Mandatory</u> implementation of management practices that will modify animal use of the riparian area	<ul style="list-style-type: none"> • Enact an ordinance(s) which prevents park-goers from feeding all wildlife within the city limits • Signage communicating ordinances • Enforcement and penalty program • Flexibility to enforce or not enforce specific species • Enforcement of leash laws (even cats) 	<ul style="list-style-type: none"> • None

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Suggested Priority	BMP	<ul style="list-style-type: none"> • Details 	<ul style="list-style-type: none"> • Regional WPPs that Implemented this BMP
		<ul style="list-style-type: none"> • No feeding on private property • Establishment of a special zone around parks and rivers • Strongly recommend an ordinance in the County as well 	
<p>High</p>	<p>Duck and Geese Surveys</p> <p style="color: red; font-size: small;">Recommended for select subwatersheds in Comal County in Geronimo and Alligator Creek WPP.</p>	<ul style="list-style-type: none"> • Conduct duck and geese surveys multiple times per year to estimate population numbers (targeting Landa Park) • The results will be used to determine effectiveness of BMPs and additional number of individuals that need to be managed to effectively reduce <i>E. coli</i>. 	<ul style="list-style-type: none"> • Plum Creek • Mill Creek • Geronimo and Alligator Creeks
<p>High</p>	<p>Scare ducks, geese and vultures away from the park</p>	<ul style="list-style-type: none"> • Passive methods include setting up a wailer to make loud, disturbing noises at random; or a fan-powered waving tube-man. • Active methods include chasing waterfowl away with a radio-operated “Goosinator”; or firing a soft-gun into waterfowl gatherings or at individual deer. 	<ul style="list-style-type: none"> • None
<p>High</p>	<p>Intensive public outreach</p>	<ul style="list-style-type: none"> • Target citizens, homeowners, apartment communities, HOAs and POAs 	<ul style="list-style-type: none"> • None

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Suggested Priority	BMP	• Details	• Regional WPPs that Implemented this BMP
		<ul style="list-style-type: none"> • Provide public education information at locations where extensive wildlife feeding takes place. • Provide signage informing public of the reasons behind feeding restrictions. 	
Moderate	Relocation of Ducks	<ul style="list-style-type: none"> • Trap and relocate ducks to Fischer Park • Kerrville tried this, but wasn't very effective due to time spent trapping ducks (selected for maintenance phase activities) 	<ul style="list-style-type: none"> • Plum Creek
Moderate	Oil Coat Duck Eggs	<ul style="list-style-type: none"> • Oil coating duck eggs to prevent hatching (currently conducted by City) 	<ul style="list-style-type: none"> • None
Low	<p>Active management of native wildlife for water quality purposes is generally not promoted ... and will not be included</p> <p style="color: red; font-size: small;">Recommended for select subwatersheds in Comal County in Geronimo and Alligator Creek WPP.</p> <p style="font-size: x-small; color: gray;"><i>Rationale: Wildlife are a large percentage of the E. coli measured in this watershed</i></p>	<ul style="list-style-type: none"> • Considered wildlife a "background" source • No BMPs targeted at reduction of <i>E. coli</i> loading from wildlife 	<ul style="list-style-type: none"> • Plum Creek • Mill Creek • Geronimo and Alligator Creeks
Low	<p>Relocate Egyptian Geese and Vultures</p> <p style="font-size: x-small; color: gray;"><i>Rationale: Not effective due to difficulty with trapping (net guns, drop nets may be required)</i></p>	<ul style="list-style-type: none"> • Trap and relocate geese and vultures outside of Landa Park 	<ul style="list-style-type: none"> • None

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Suggested Priority	BMP	Details	Regional WPPs that Implemented this BMP
Low	Sterilization <i>Rationale: See description</i>	<ul style="list-style-type: none"> Catch and sterilize ducks and geese to prevent population growth Difficult to implement Costly Not legal without University research permit 	<ul style="list-style-type: none"> None
Low	<u>Voluntary</u> management practices <i>Rationale: Non-native avian wildlife population is primarily in Landa Park where mandatory management practices could be implemented</i>	<ul style="list-style-type: none"> Implement <u>voluntary</u> management practices including: <ul style="list-style-type: none"> Voluntary do-not-feed programs with HOAs Education programs 	<ul style="list-style-type: none"> Buck Creek

Feral Hog BMPs

Suggested Priority	BMP	Details	Regional WPPs that Implemented this BMP
High	Feral hog management workshops <i>Recommended for select subwatersheds in Comal County in Geronimo and Alligator Creek WPP.</i>	<ul style="list-style-type: none"> Inform landowners and the public about feral hogs, problems caused by feral hogs, and management solutions Encourage voluntary management of feral hogs by fencing of deer feeders, trapping, hunting and shooting (ensure no release of hogs) Get information from landowners about numbers and movement of feral hogs on their land Determine if landowners are already implementing feral hog 	<ul style="list-style-type: none"> Plum Creek Buck Creek Mill Creek Geronimo and Alligator Creeks Attoyac Bayou

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Suggested Priority	BMP	Details	Regional WPPs that Implemented this BMP
		management, and in what manner	
High	Implement a Bounty Program	<ul style="list-style-type: none"> Provide a bounty (e.g., \$2/tail) for killing feral hogs Provide (e.g., 30-minute video) training when citizens collect fee Explore partnership with Guadalupe Count 	<ul style="list-style-type: none"> Recommended by Work Group
High	Track trapping intensities	<ul style="list-style-type: none"> Track the trapping intensities reported by landowners as an indication of BMP effectiveness 	<ul style="list-style-type: none"> TPWD recommendation
Moderate	Feral hog website <i>Recommended for select subwatersheds in Comal County in Geronimo and Alligator Creek WPP.</i>	<ul style="list-style-type: none"> Allow the public to access information on management strategies and hog movement. Establish a page for reporting hog sightings. 	<ul style="list-style-type: none"> Plum Creek Mill Creek Geronimo and Alligator Creeks Attoyac Bayou
Low	Aerial gunning of feral hogs <i>Recommended for select subwatersheds in Comal County in Geronimo and Alligator Creek WPP.</i> <i>Rationale: Densities are not high enough in Comal County to be effective; Bounty program is a better method for active management</i>	<ul style="list-style-type: none"> Aerial gunning can be implemented in less populous areas. Explore the Texas Hunters for the Hungry Program. 	<ul style="list-style-type: none"> Plum Creek Mill Creek Geronimo and Alligator Creeks Buck Creek Attoyac Bayou
Low	Actively manage hogs using sodium nitrite <i>Rationale: See description</i>	<ul style="list-style-type: none"> Not a poison, but kills hogs by asphyxiation (acts metabolically); Two years from any field trials, five years from any public use; Would require removal of carcasses 	<ul style="list-style-type: none"> None

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Suggested Priority	BMP	Details	Regional WPPs that Implemented this BMP
Low	Actively manage hots using specialized feeders with intoxicant <i>Rationale: See description</i>	<ul style="list-style-type: none"> • Still under TDA review • Not available for use in Texas at this time 	<ul style="list-style-type: none"> • None
Low	Full-time position to focus on feral hog management Recommended for select subwatersheds in Comal County in Geronimo and Alligator Creek WPP. <i>Rationale: High densities of feral hogs have not been identified in the watershed</i>	<ul style="list-style-type: none"> • Hire a full-time manager to track numbers of individuals and implement management strategies. 	<ul style="list-style-type: none"> • Plum Creek • Mill Creek • Geronimo and Alligator Creeks