Project Name:	Project Name: Fort Detrick, US Army, Mary				
Contact: Activity: Approximate Acreage	:	Current: Lyn Hoch Retired: Betty Boyland Invasive Plant Management Plan Development, Invasive Plant On the Ground Conferences (8 annual) and On the Ground Invasive Plant Management 1,200 acres			

Progress:

IPC, Inc. has been working on the Fort Detrick project since 1999. In year one, IPC developed an invasive plant management plan. This plan was immediately implemented and in 2008 IPC estimated that 75% of the plan had been implemented. On the ground management includes control of all invasive plant species utilizing an integrated pest management strategy. Mechanical, chemical and bio-control methods have been used at Fort Detrick. When the project was started, most species were classified as level 5 (high intensity) infestations.



Several species of thistle were treated at Fort Detrick over the past 5 years. This photograph shows an area treated with two types of herbicide. One, Transline cannot be used in close proximity to water and the other, Garlon 3A is labeled for use near aquatic ecosystems. Every project requires a different scheme of events. In this case, because Transline is much more effective in controlling thistle, our crews sprayed up to the required distance from the pond. From that point on they sprayed with Garlon 3A with the understanding that a lower mortality rate would result, requiring a longer management plan on this area of the site.

Invasive Pest Plants Plants Managed at Fort Detrick, Frederick Maryland

		Cut and	Girdle	Foliar Spray		Basal Bark
Scientific Name	Common name	Treat				
Tree Species						
Ailanthus altissima	Tree of Heaven	X	Х	Х	X	X
Albizia julibrissin	Silk tree	Х	Х	Х	Х	Х
Paulownia tomentosa	Princess tree	Х	Х	Х	Х	Х
Broussonetia papyrifera	Paper mulberry	X	X	Х	X	X
Multistemmed Species						
Berberis thunbergii	Japanese barberry	Х		Х		
Ligustrum sinense	Privet	Х		Х	Х	Х
L. maackii	Amur honeysuckle	Х		Х	Х	Х
Rosa multiflora	Multiflora rose	Х		Х		Х
Elaegnus fortunei	Autumn olive	Х		Х		Х
Viburnum dilatatum	Linden viburnum	Х		Х	Х	Х
Viburnum plicatum	Double file viburnum	Х		Х	Х	Х
Euonymous alatus	Burning bush	X		Х	X	X
Herbacious Species						
Alliaria petiolata	Garlic mustard			Х	Х	
Polygonum cuspidatum	Japanese knotweed			Х	Х	
Microstegium vinineum	Japanese stitltgrass			Х	Х	
Cirsium arvense	Canada thistle			Х		
Carduus nutans L.	Musk thisle			Х		
Vine Species						
Euonymus fortunei	Climbing Euonymous	Х		Х	X	F
Celastrus orbiculata	Oriental bittersweet	Х		Х	Х	F
Lonicera japonica	Japanese honeysuckle	Х		Х	Х	F
Vinca minor	Periwinkle			Х	Х	F
Vinca major	Large-leafed periwinkle			Х	Х	F
Hedera helix	English ivy	Х		Х	Х	SU
Wisteria spp	Chinese wisteria	Х		Х		SU
Persicaria perfoliata	Mile a minute vine			Х		





Hundreds of new trees were planted on this site without concern for the Chinese privet growing all around the new plantings. IPC utilized a foliar application of a broadleaf specific herbicide to control the privet below 3 feet tall. Remaining privet was mechanically removed and chipped away on this approximately 40-acre site.



In a small patch of phragmites on the base, IPC cut off the seed heads and followed with a chemicala pplication of 2% aquatic labeled glyphosate. Follow up treatments for several years will allow Ms. Boyland to begin the replanting phase this year.



IPC works on several military installations. One of the reasons is that invasive species such as this multiflora rose impede military training. IPC foliar sprayed some patches and cut and treated other patches of the multiflora rose.