

Herbicide Application Services



Townsend Delivers Performance

Townsend Tree Service

The Leader in Integrated Vegetation Management Services

Townsend Corporation

Townsend Corporation is committed to meeting emerging customer needs. Core operations cover 25 states with over 2,000 employees and over 5000 equipment assets. We offer clients multiple solutions and set employee performance standards to the highest levels of safety, excellence and integrity.

Key Core Values

Safety and excellence are key core values at the heart of The Townsend Corporation. We strive to hire the best people and provide them with tools to get the job done right the first time, every time! We never compromise on our highest priority, to safely meet or exceed customer expectations!

Products and Services

Townsend is a leading service provider to the energy, industrial and defense industries. Core businesses:

- IVM services, line clearing and herbicide application services for electric utilities, pipeline companies and roadways
- Power line and substation construction for the energy industry
- In-plant construction and electrical maintenance services
- Tower wiring for wind energy
- Herbicide and equipment wholesale supply
- Storm restoration services



Townsend Tree Service

Townsend Tree Service, a business unit of The Townsend Corporation, provides tree trimming, clearance and Integrated Vegetation Management (IVM) services for power lines, communication lines, pipelines and roadways.

Integrated Vegetation Management (IVM) is the strategic use of both mechanical methods and herbicide treatment to achieve optimized vegetation control at the lowest total system cost.

We are a leader in herbicide application services for Rights of Way (ROW) and industrial locations. Our extensive staff of licensed applicators is supported by a comprehensive fleet of innovative equipment and a vertically integrated organization in full collaboration with the industry's leading chemical companies and research universities.



Townsend Tree Service has extensive equipment capabilities and resources, with one of the largest fleets of All Terrain Aerial Buckets (ATAB), ROW brush mowers, and herbicide application equipment. From the development of specialized equipment to innovative approaches in the treatment of invasive species, we strive to continually improve productivity and efficiency for our customers.

By using modern IVM techniques and advanced herbicides that target invasive species, Townsend Tree Service provides the best in environmental stewardship and habitat management. With our research partners, Townsend IVM programs help produce benefits like:

- Better site crew access
- Lower maintenance costs
- Improved drainage
- Improved motorist safety
- Enhanced aesthetics



Herbicide Application Services

Rights of Way (ROW) Services

High and Low Volume Foliage Brush Control

Typical Applications

- Distribution and Transmission Power Lines
- Pipelines
- Railroad lines
- Roadways



Comprehensive Weed Control and Growth Regulator Programs

- Consultation on optimal IVM programs
- Site specific herbicide blends
- Licensed professional applicators
- Radar-controlled, pressure regulated computerized injection spray systems
- Multi-year programs with *guaranteed results*
- Turnkey operations with GPS mapping
- Selective weeding and off-road spraying
- Guardrail, delineators, signposts
- Noxious weeds and invasive species
- Plant growth regulation



Herbicide Application Services

Bareground Weed Control Services

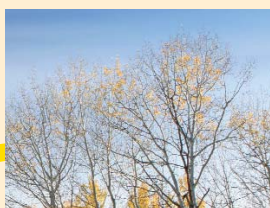
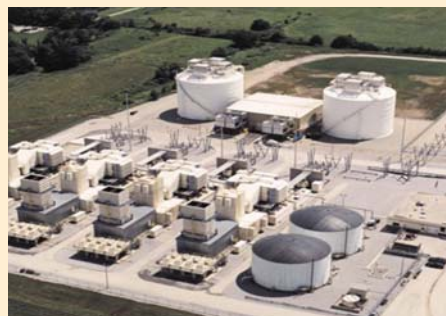
Townsend Tree Service provides extensive capabilities and expertise for weed control

Typical Applications

- Substations and Power Plants
- Refineries and Tank Farms
- Cell Towers, Metering and Compressor Stations
- Equipment Yards and Rail Yards
- Pavement Underlay
- Fence Rows and Ditch Banks
- Airports- Runways, Lights

Comprehensive Weed Control and Growth Regulator Programs

- Site specific herbicide blends
- Licensed professional applicators
- Radar-controlled, pressure regulated computerized injection spray systems
- Multi-year programs with *guaranteed results*
- Turnkey operations with GPS mapping
- Ditch bank spraying



Herbicide Application Services

Tree Growth Regulators

**At Townsend Tree Service,
we will identify the best solution to meet your needs**

Tree Growth Regulators (TGR) are a vegetation management tool that limits or stops tree growth by either blocking cell division or by limiting cell expansion. Cell structures and plant parts are all left intact, just smaller, and shorter.



Primary Methods of Applying Tree Growth Regulators

- Soil injection
- Basal drench



Benefits of Tree Growth Regulators

- Less pruning of high profile "Cycle Buster" trees for a lower cost of control
- Reduced growth, less pruning
- Root system enhancement in some species
- Higher root-to-shoot ratio
- Disease suppression
- Resistance to drought, pollution and temperature extremes

Application Guidelines

Prior to application, guidelines need to be established between the client and the application crew.

Guidelines include:

- Trees/Species to be treated
- Minimum DBH
- Location relative to power lines
- Timing of treatments before and after pruning



Herbicide Application Services

Invasive Plant Control

Typical Applications

- Phragmites
- Honeysuckle
- Alienias
- Kudzu
- Canada Thistle
- Japanese Knotweed
- Lesser Celandine
- Narrow Leaf Cattail
- Multi Flora Rose
- Glossy Buckthorn
- Many more

Comprehensive Invasives Control Programs

- Site specific Herbicide Mixtures
- Improved Biodiversity
- *Guaranteed Results*
- Multi-Year Programs
- Licensed Professional Applicators
- Mechanical Removal
- Projects of any Size



Roadside Application Services

Typical Applications

- Selective weeding
- Off road spraying
- Guardrail, Delineators, Signposts
- Noxious Weeds and Dormant Stem
- Roadside Brush
- Plant Growth Regulation
- Ditch Bank Spraying- Cattails
- Pavement Underlay- Applications
- Fence Lines and Bridge Abutments

Roadside Application Service Programs Will

- Improve Motorist Safety
- Improve Aesthetics
- Lower Maintenance Costs
- Improve Drainage



Contact Information

Major Supplier Partnerships

Townsend works closely with all the major chemical and herbicide producers, including:

- BASF – Certified QVM Applicator
- DuPont – Pro Team Applicator
- Dow Agro Sciences – ACE Applicator
- NuFarm

Our guarantees are backed by manufacturer program warranties offered by BASF, DuPont and Dow.



Locations

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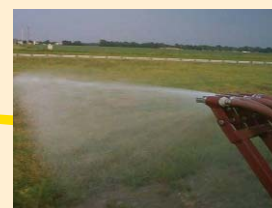
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Townsend Corporation Capabilities

Townsend Tree Service LLC

Clients:

- Investor-owned utilities, municipal systems and electric cooperatives
- State Departments of Transportation

Services:

- Utility line clearing, maintenance and vegetation growth control
- Storm and disaster emergency response
- Herbicide applications
- Integrated Vegetation Management programs

Row Care LLC

Clients:

- Pipeline companies

Services:

- Line clearing, maintenance and vegetation growth control
- Herbicide applications
- Integrated Vegetation Management programs

N.G. Gilbert Corporation

Services:

- Construction and rebuild of transmission lines and substations up to 500KV

- Construction, rebuild, and maintenance of overhead and underground distribution lines
- Energy collector systems and tower wiring for wind energy projects
- Emergency storm response and restoration services
- Line clearance

Townsend Electrical Construction Company LLC

Services:

- Construction and rebuild of transmission lines and substations up to 345KV
- Construction, rebuild, and maintenance of overhead and underground distribution lines
- Energy collector systems for wind energy projects
- Emergency storm response and restoration services

Kelley Electric LLC

Products and Services:

- Commercial and industrial electric installation and maintenance
- Installation of process and production control systems
- Custom control panel and enclosure design and manufacturing

- Mass notification systems (MNS) installation; qualified installers for government and military installations, universities, mass transit
- Power line construction of transmission and distribution lines
- Up-tower wiring for wind energy projects

Townsend Chemical LLC

Services:

- Over 160 products available
- Shipment and delivery within 48 hours
- Consultation on application methods, herbicide selection, specification development
- Custom training programs

Products:

- Herbicides
- Adjuvant, marker sprays
- Application equipment
- Product labels and material safety data sheets

Major Suppliers:

- Dow Agro Sciences
- BASF
- DuPont
- NuFarm

Eco-Pak LLC

- Customer blending
- Returnable/refillable containers
- Closed-system for herbicide application

Headquarters

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