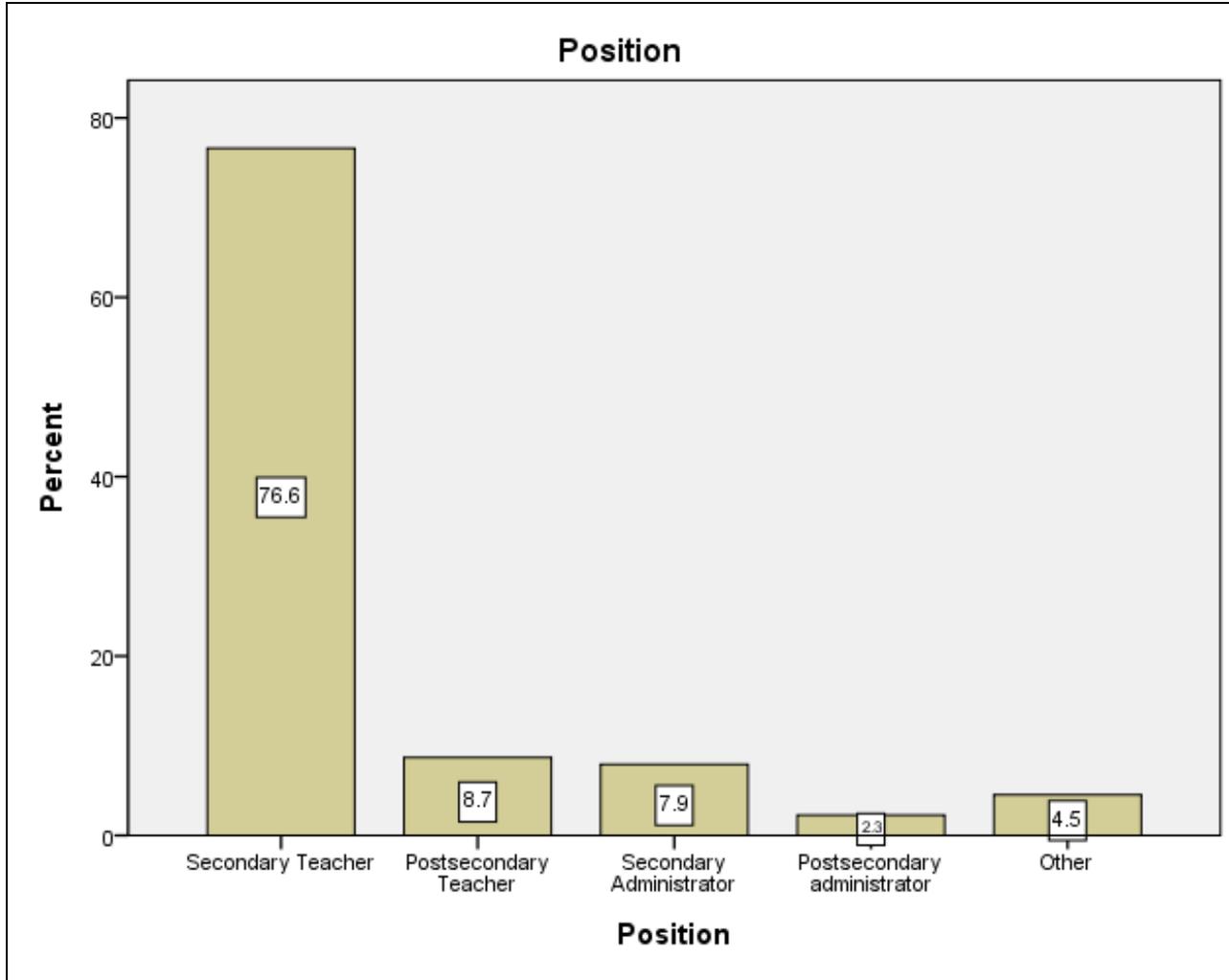


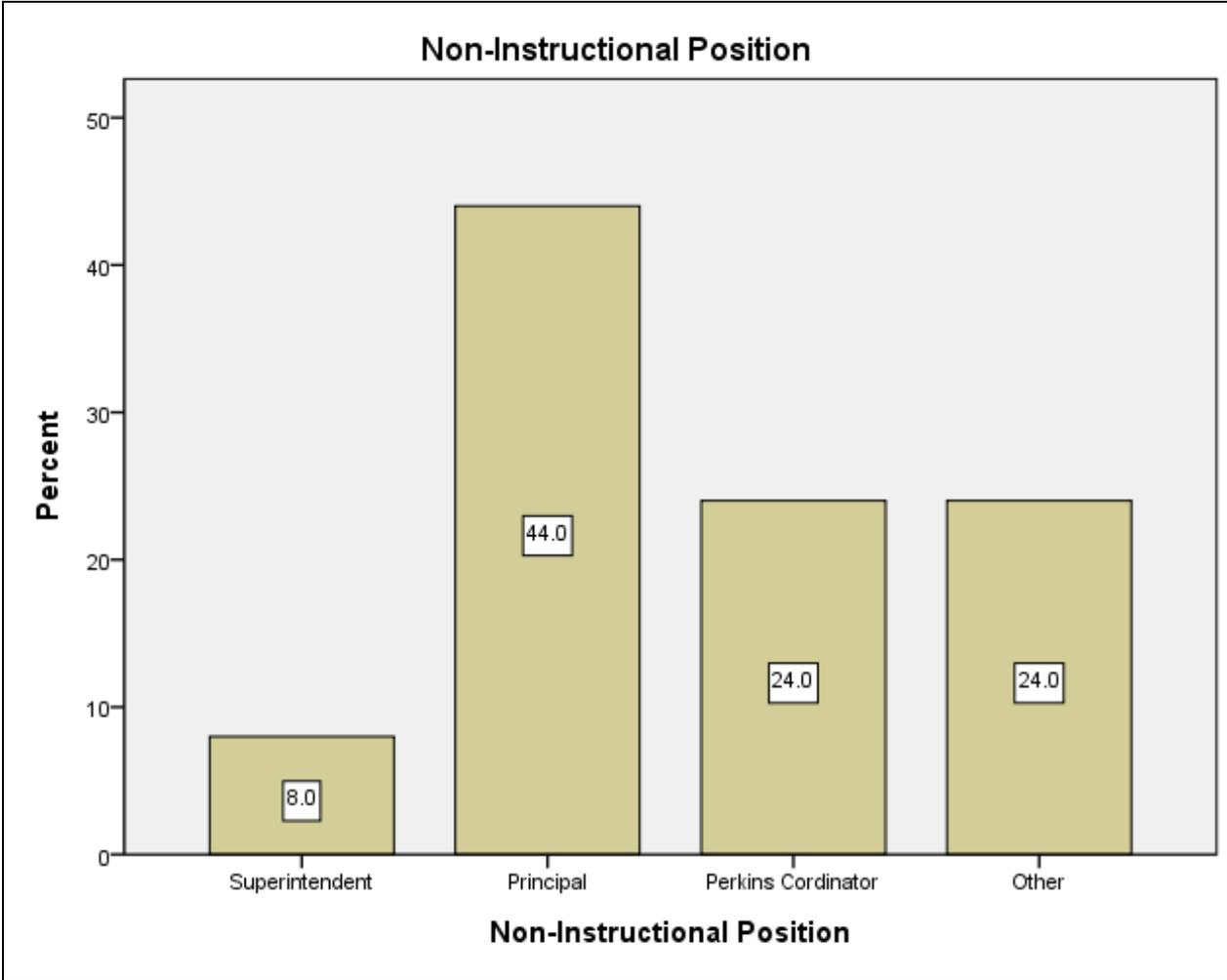
WY CTE Professional Development Survey Results: 2011

Prepared by PRES Associates, Inc.
(N=272)

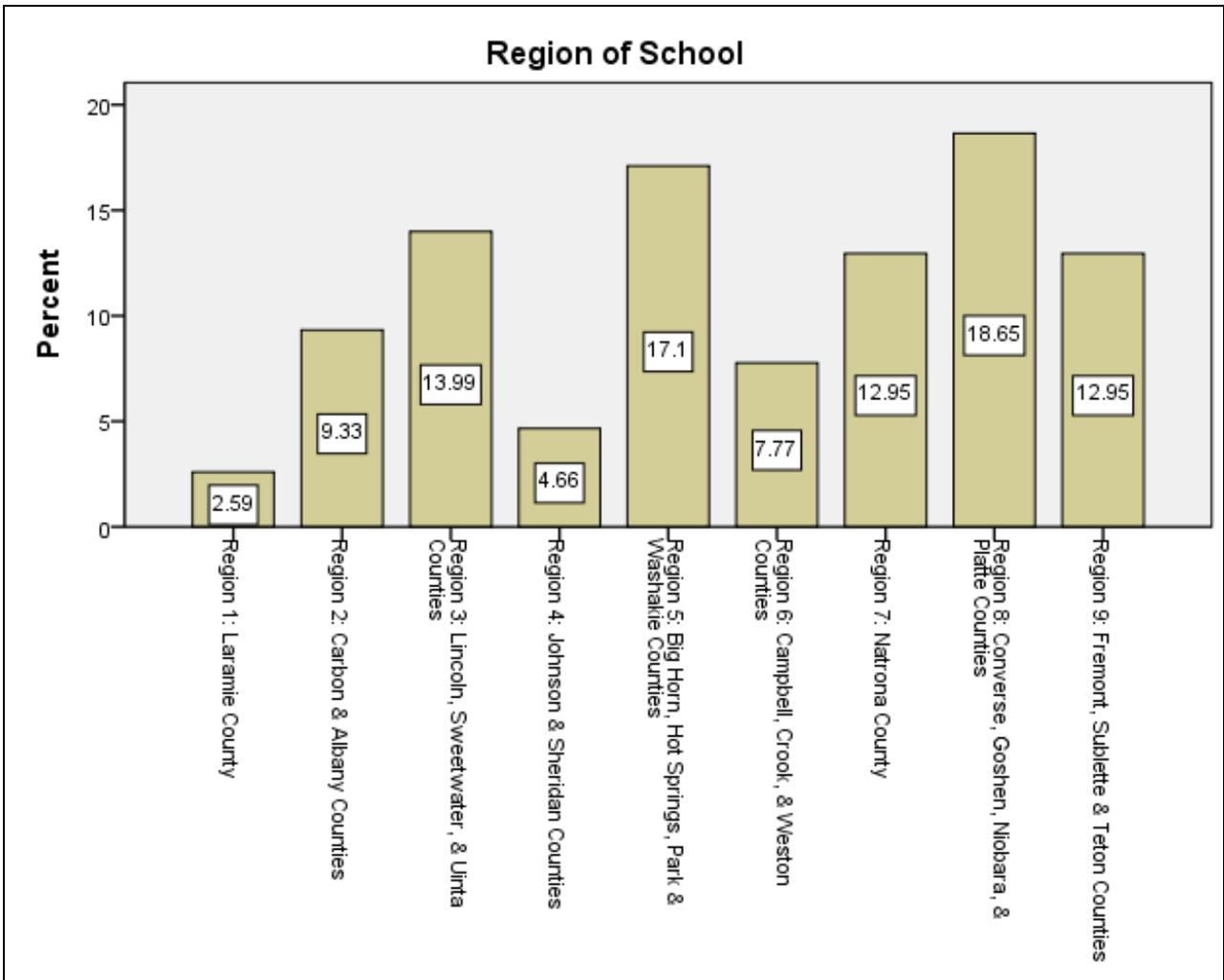
Respondent Demographic Information



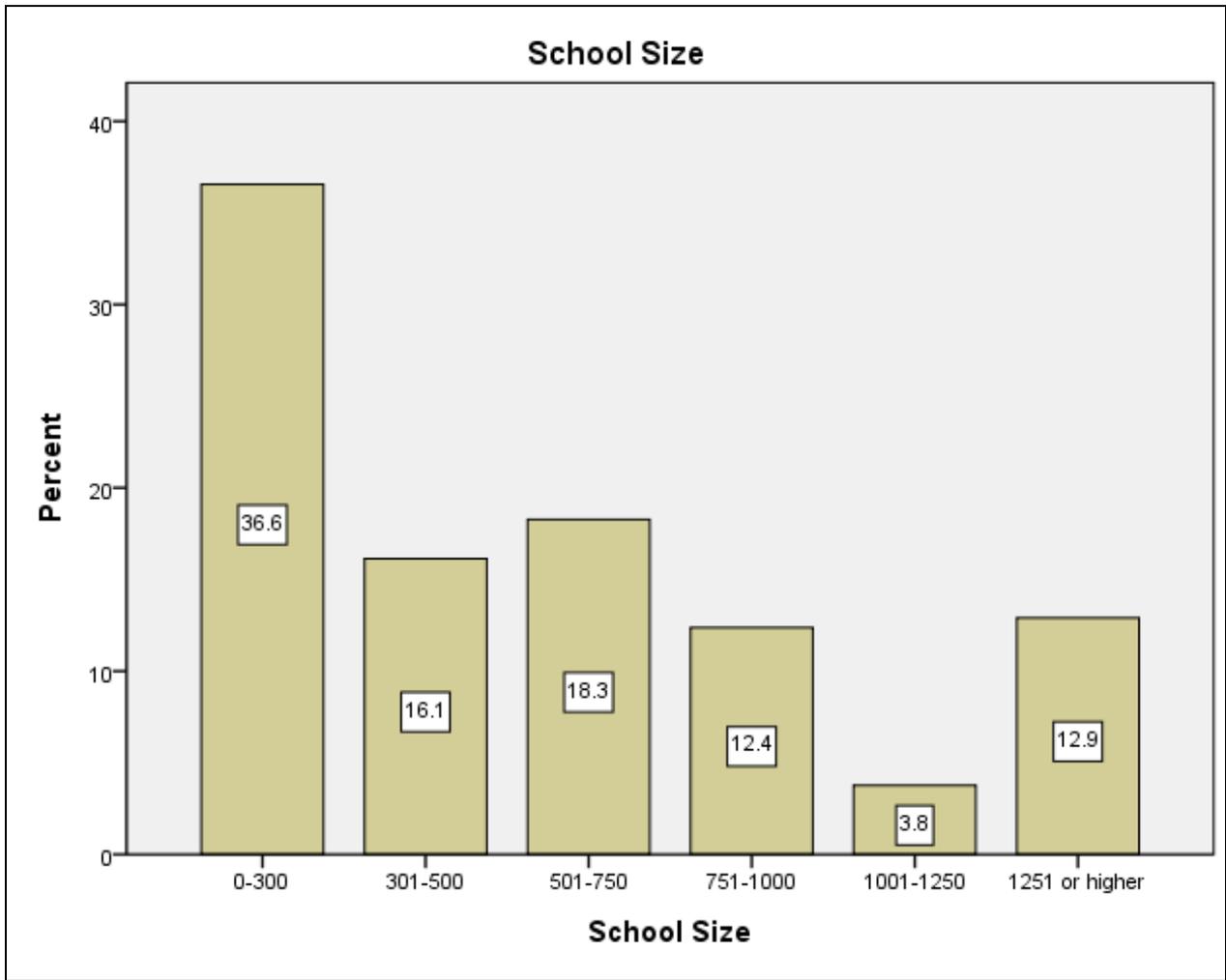
	Frequency	Valid Percent
Secondary Teacher	203	76.6
Postsecondary Teacher	23	8.7
Secondary Administrator	21	7.9
Postsecondary administrator	6	2.3
Other (Program director, curriculum director, counselor)	12	4.5
Total	265	100.0



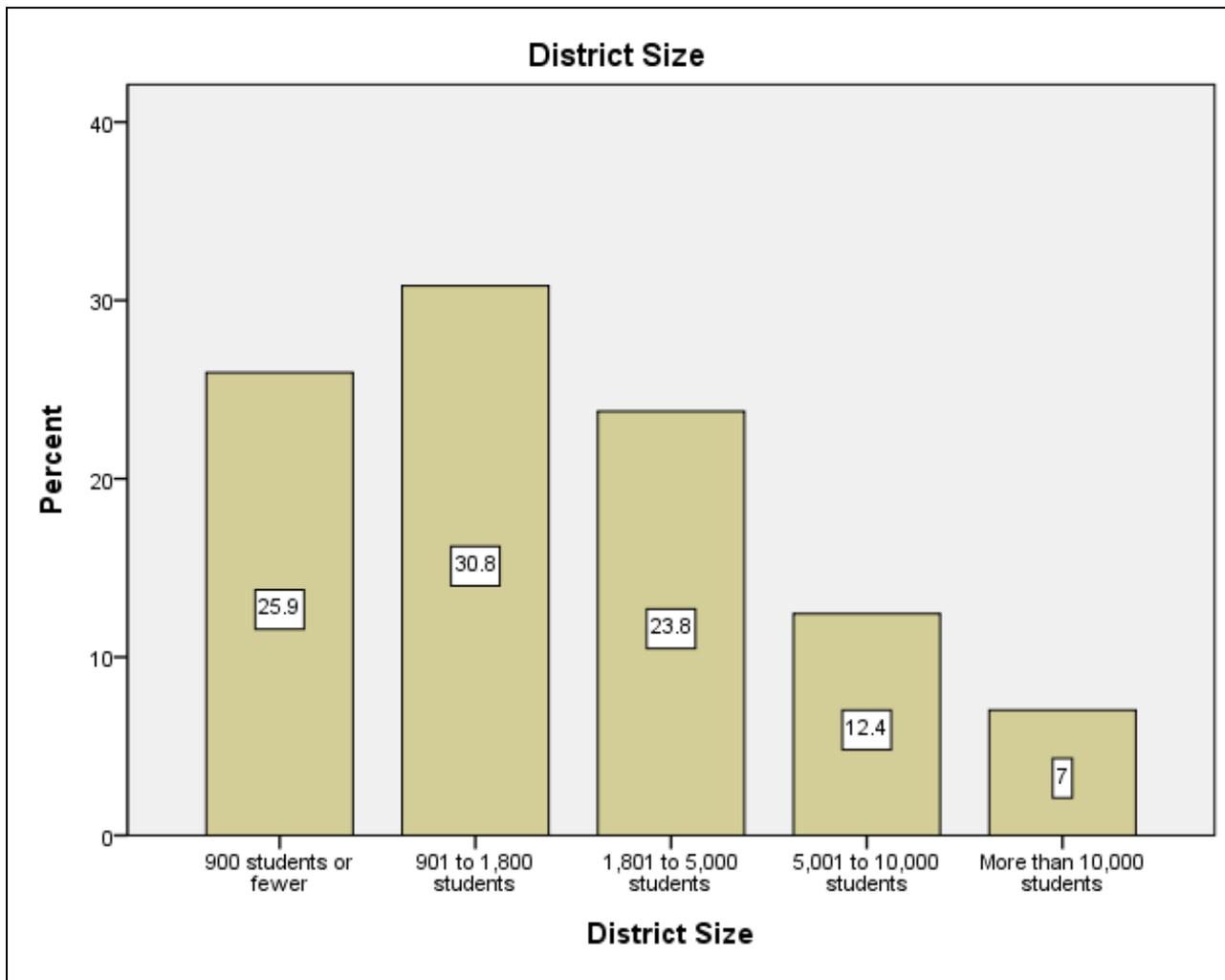
	Frequency	Valid Percent
Superintendent	2	8.0
Principal	11	44.0
Perkins Coordinator	6	24.0
Other (Program director, curriculum director)	6	24.0
Total	25	100.0



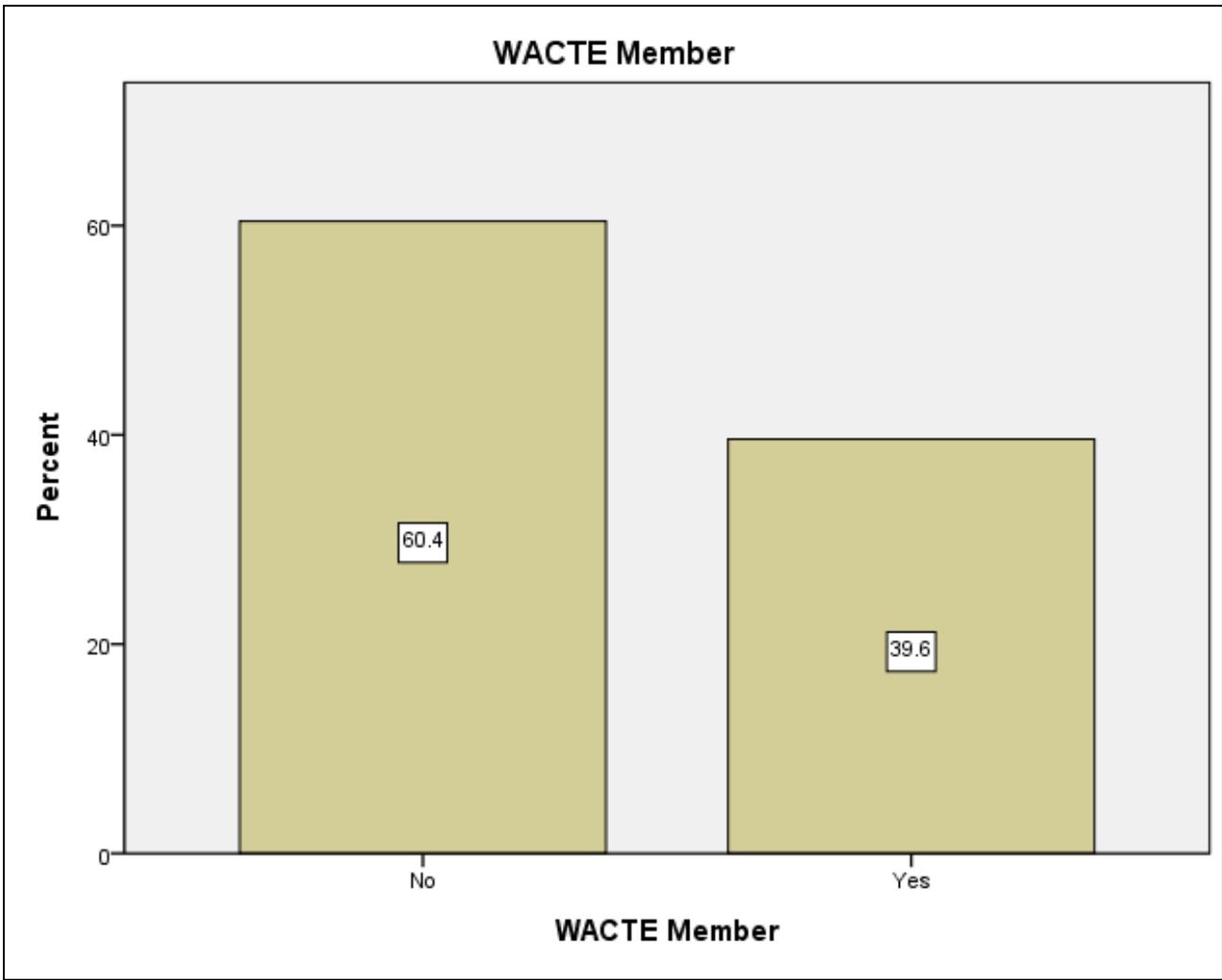
	Frequency	Valid Percent
Region 8: Converse, Goshen, Niobara, & Platte Counties	36	18.7
Region 5: Big Horn, Hot Springs, Park & Washakie Counties	33	17.1
Region 3: Lincoln, Sweetwater, & Uinta Counties	27	14
Region 9: Fremont, Sublette & Teton Counties	25	13
Region 7: Natrona County	25	13
Region 2: Carbon & Albany Counties	18	9.3
Region 6: Campbell, Crook, & Weston Counties	15	7.8
Region 4: Johnson & Sheridan Counties	9	4.7
Region 1: Laramie County	5	2.6
Total	193	100.0



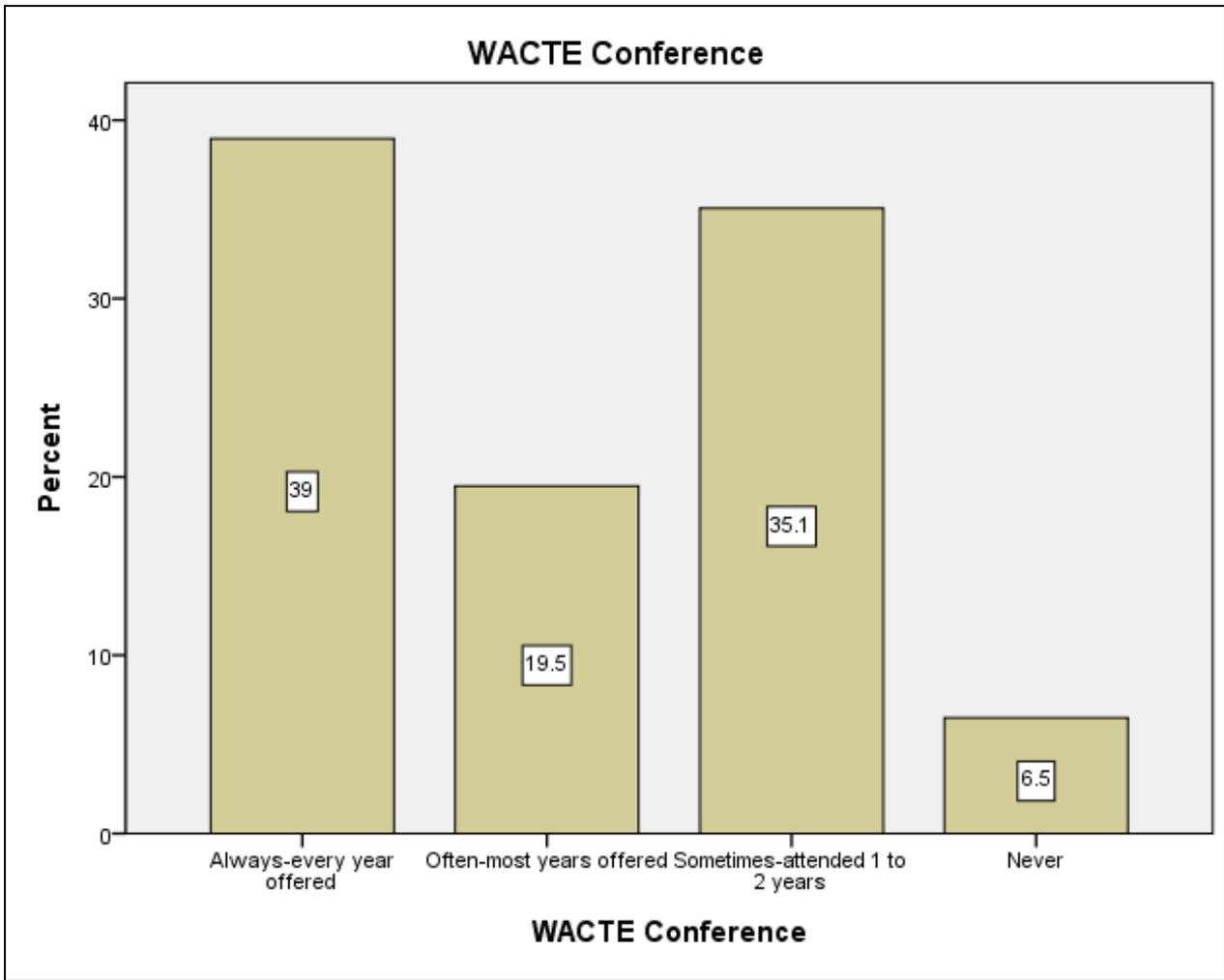
	Frequency	Valid Percent
0-300	68	36.6
301-500	30	16.1
501-750	34	18.3
751-1000	23	12.4
1001-1250	7	3.8
1251 or higher	24	12.9
Total	186	100.0



	Frequency	Valid Percent
900 students or fewer	48	25.9
901 to 1,800 students	57	30.8
1,801 to 5,000 students	44	23.8
5,001 to 10,000 students	23	12.4
More than 10,000 students	13	7.0
Total	185	100.0



	Frequency	Valid Percent
No	116	60.4
Yes	76	39.6
Total	192	100.0



	Frequency	Valid Percent
Always-every year offered	30	39.0
Often-most years offered	15	19.5
Sometimes-attended 1 to 2 years	27	35.1
Never	5	6.5
Total	77	100.0

Teacher CTE Career Cluster Area

	Frequency	Valid Percent
Multiple Clusters	62	29.7
Business, Management & Administration	26	12.4
Agriculture, Food & Nat. Resources	18	8.6
Architecture & Construction: Technical & Architectural Drafting	17	8.1
Human Services	12	5.7
Architecture & Construction: Cabinetmaking, Woodworking & Carpentry	11	5.3
Manufacturing	11	5.3
Other*	11	5.3
Arts, AV Tech., & Communications	10	4.8
Information Technology	10	4.8
Hospitality & Tourism	9	4.3
Transportation-Automotive Technology	9	4.3
Health Science	3	1.4
Total	209	100.0

*Includes work experience, energy explorations, exploring technology, sports medicine, veterinary technology, electronics, communication, criminal justice.

Professional Development Content

A. Results on Suggested Topic Areas: Respondents were asked to suggest their three top topic areas for professional development.

Overall Results

Topic Areas	Frequency	Valid Percent
Best Teaching Practices (time/class management, differentiated instruction (for gifted/ELL/speced), engagement, cooperative learning)	56	9.4
Integrating Academic and CTE (career academies, integrating math, reading, & science, interdisciplinary possibilities)	44	7.4
Technology & Software Training (Info on new technologies & industry-specific training, e.g, Adobe CS5, Promethean, CorrelDraw)	35	5.9
Preparing students in Career Pathways and Education (career and college readiness, CTE pathways, career counseling)	30	5.1
Integrating new technology in classroom /computer based instruction	28	4.7
Drafting software training & reading blueprints (AutoCAD, Solidworks)	23	3.9
Core Standards for CTE (info and developing for state, info on national standards, how to meet standards)	21	3.5
Assessment Development/Strategies (exam writing, test prep, rubric/performance based assessment development)	19	3.2
21st Century Skills (includes Quantum learning, hands on learning, critical thinking)	18	3.0
Industry Specific Training/Information - <i>Not-Specified</i>	17	2.9
Importance of CTE (why its important, how to get word out, recruiting students)	15	2.5
Business /Accounting/ Finance (business law, financial literacy, business plans, business ed., home based business)	14	2.4
Project Based Learning	14	2.4
Welding (TIG & aluminum)	14	2.4
Trends in Careers (job opportunities, career forecasts local, national and global, and trends within jobs)	14	2.4
CTE and the Community (internships, community learning, partnering with local businesses, industry)	13	2.2
Manufacturing (CNC & CAM Training, new developments)	12	2.0
Other*	12	2.0
Curriculum Development (e.g., to align to standards)	11	1.9
Helping Students Build on Math, Reading, Science skills	11	1.9
Welding Certification	10	1.7
Green Construction Training (also woodworking & general)	10	1.7
Agriculture and Animal Sciences (FFA and CDE training certification, New technology in Ag, hydroponics)	9	1.5
Automotive (certification and general info on industry)	9	1.5

OSHA and Other Safety Training	9	1.5
Entrepreneurship/Marketing (portfolio management)	8	1.3
Industry Specific Certification – <i>Not-Specified</i>	8	1.3
Info on Art/Photography/AV (art dealing, video production, 3D production, photography)	7	1.2
Graphic Design/Web Design	7	1.2
CTE funding sources (what is available and how to obtain)	6	1.0
Family Consumer Science (Child Development, preschool organization, brain development, teen/family)	6	1.0
Grant Writing (general how to)	6	1.0
CTE Assessments (voc. standards testing, assessing CTE programs)	5	.8
Education Leadership	4	.7
Trends in Electronics, Robotics, Energy	4	.7
First Aide/CPR Certification	4	.7
Nutrition/Wellness/Physical fitness	4	.7
ProStart Certification	4	.7
Perkins (general information and accountability)	4	.7
Culinary Arts (kitchen sanitation, soups and sauces)	3	.5
Policies affecting CTE (Hathaway, legislation updates)	3	.5
Textiles/Fashion Design/Interior Design (Current Issues, new strategies)	3	.5
Transitioning to Engineering & Engineering projects	2	.3
Healthcare (reform)	2	.3
Total	593	100.0

*These generally consisted of industry-specific phrases but no specification of what they would like (e.g., "Criminal Justice") or other topics reported once.

Results by Type of Teacher and Administrative Respondents

	Type of Teacher														Administrative/ Non-instructional Teacher
	Agriculture, Food & Nat. Resources	Architecture & Construction: Cabinetmaking Woodworking & Carpentry	Architecture & Construction: Technical & Architectural Drafting	Arts, AV Tech., & Communications	Business, Management & Administration	Health Science	Hospitality & Tourism	Human Services	Information Technology	Manufacturing	Engineering	Transportation-Automotive Technology	Multiple Clusters	Other (electronics, communication, vet sci., justice, etc)	
21st Century Skills (includes Quantum learning, hands on learning, critical thinking)	8.9%	10.3%	0.0%	0.0%	4.0%	0.0%	5.3%	0.0%	6.7%	0.0%	0.0%	0.0%	2.2%	0.0%	5%
Integrating Academic and CTE (career academies, integrating math, reading, & science, interdisciplinary possibilities)	4.4%	3.4%	4.3%	0.0%	14.0%	0.0%	10.5%	9.1%	13.3%	4.5%	0.0%	12.5%	8.6%	0.0%	11%
Agriculture and Animal Sciences (FFA and CDE training certification, New technology in Ag, hydroponics)	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2%	0.0%	0%
CTE Assessments (voc. standards testing, assessing CTE programs)	0.0%	0.0%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	4%
Info on Art/Photography/AV (art dealing, video production, 3D production, photography)	0.0%	0.0%	0.0%	19.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	0.0%	0%
Assessment Development/Strategies (exam writing, test prep, rubric/performance based assessment development)	2.2%	0.0%	6.5%	0.0%	2.0%	20.0%	5.3%	6.1%	0.0%	9.1%	0.0%	4.2%	1.4%	7.7%	5%
Automotive (certification and general info on industry)	0.0%	0.0%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	0.7%	0.0%	1%

	Type of Teacher														
	Agriculture, Food & Nat. Resources	Architecture & Construction: Cabinetmaking & Woodworking & Carpentry	Architecture & Construction: Technical & Architectural Drafting	Arts, AV Tech., & Communications	Business, Management & Administration	Health Science	Hospitality & Tourism	Human Services	Information Technology	Manufacturing	Engineering	Transportation-Automotive Technology	Multiple Clusters	Other (electronics, communication, vet sci., justice, etc)	Administrative/ Non-instructional Teacher
Business /Accounting/ Finance (business law, financial literacy, business plans, business ed., home based business)	0.0%	0.0%	0.0%	0.0%	14.0%	0.0%	10.5%	0.0%	6.7%	0.0%	0.0%	0.0%	1.4%	0.0%	0%
Preparing students in Career Pathways and Education (career and college readiness, CTE pathways, career counseling)	0.0%	6.9%	2.2%	4.8%	4.0%	0.0%	10.5%	3.0%	0.0%	0.0%	0.0%	4.2%	7.2%	15.4%	8%
Best Teaching Practices (time/class mngmt., differentiation (for gifted/ELL/speced), engagement, cooperative learning)	8.9%	10.3%	2.2%	4.8%	12.0%	40.0%	0.0%	15.2%	26.7%	9.1%	0.0%	25.0%	5.8%	15.4%	16%
Core Standards for CTE (info and developing for state, info on national standards, how to meet standards)	0.0%	0.0%	2.2%	4.8%	2.0%	0.0%	5.3%	9.1%	6.7%	0.0%	0.0%	0.0%	2.9%	0.0%	8%
CTE funding sources (what is available and how to obtain)	2.2%	0.0%	10.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
CTE and the Community (internships, community learning, partnering with local businesses, industry)	0.0%	0.0%	0.0%	0.0%	4.0%	0.0%	5.3%	3.0%	0.0%	0.0%	0.0%	0.0%	4.3%	7.7%	1%
Culinary Arts (kitchen sanitation, soups and sauces)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.3%	6.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
Curriculum Development (e.g., to align to standards)	4.4%	3.4%	2.2%	0.0%	2.0%	0.0%	0.0%	3.0%	0.0%	0.0%	0.0%	0.0%	2.2%	0.0%	3%

	Type of Teacher														
	Agriculture, Food & Nat. Resources	Architecture & Construction: Cabinetry & Woodworking & Carpentry	Architecture & Construction: Technical & Architectural Drafting	Arts, AV Tech., & Communications	Business, Management & Administration	Health Science	Hospitality & Tourism	Human Services	Information Technology	Manufacturing	Engineering	Transportation-Automotive Technology	Multiple Clusters	Other (electronics, communication, vet sci., justice, etc)	Administrative/ Non-instructional Teacher
Helping Students Build on Math, Reading, Science skills	0.0%	3.4%	0.0%	0.0%	2.0%	0.0%	5.3%	6.1%	0.0%	0.0%	0.0%	8.3%	2.2%	0.0%	1%
Drafting software training & reading blueprints (AutoCAD, Solidworks)	4.4%	0.0%	17.4%	4.8%	0.0%	0.0%	5.3%	3.0%	0.0%	9.1%	0.0%	0.0%	4.3%	0.0%	0%
Education Leadership	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4%
Trends in Electronics, Robotics, Energy	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2%	7.7%	0%
Transitioning to Engineering & Engineering projects	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	0%
Entrepreneurship/Marketing (portfolio management)	0.0%	0.0%	2.2%	0.0%	8.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	0.0%	0%
Environmental Sciences	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0%
Family Consumer Science (Child Development, preschool organization, brain development, teen/family)	0.0%	3.4%	0.0%	0.0%	0.0%	0.0%	10.5%	6.1%	0.0%	0.0%	0.0%	0.0%	0.0%	7.7%	0%
First Aide/CPR Certification	0.0%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.5%	0.0%	4.2%	0.0%	7.7%	0%
Grant Writing (general how to)	2.2%	0.0%	2.2%	4.8%	0.0%	0.0%	0.0%	6.1%	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	0%
Graphic Design/Web Design	0.0%	0.0%	2.2%	14.3%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	0.0%	0%
Healthcare (reform)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1%
Importance of CTE (why its important, how to get word out, recruiting students)	4.4%	3.4%	2.2%	4.8%	2.0%	0.0%	5.3%	0.0%	6.7%	0.0%	0.0%	0.0%	5.0%	0.0%	0%
Industry Specific Certification – Not Specified	2.2%	3.4%	2.2%	9.5%	0.0%	0.0%	0.0%	3.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	1%
Industry Specific Training/Information - Not-Specified	2.2%	10.3%	4.3%	0.0%	2.0%	0.0%	0.0%	6.1%	0.0%	13.6%	0.0%	8.3%	0.7%	0.0%	1%

	Type of Teacher														
	Agriculture, Food & Nat. Resources	Architecture & Construction: Cabinetry & Woodworking & Carpentry	Architecture & Construction: Technical & Architectural Drafting	Arts, AV Tech., & Communications	Business, Management & Administration	Health Science	Hospitality & Tourism	Human Services	Information Technology	Manufacturing	Engineering	Transportation-Automotive Technology	Multiple Clusters	Other (electronics, communication, vet sci., justice, etc)	Administrative/ Non-instructional Teacher
Integrating new technology in classroom /computer based instruction	6.7%	3.4%	2.2%	0.0%	4.0%	20.0%	5.3%	6.1%	6.7%	0.0%	0.0%	0.0%	7.9%	7.7%	3%
Manufacturing (CNC & CAM Training, new developments)	0.0%	10.3%	2.2%	4.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.2%	4.3%	0.0%	0%
Nutrition/Wellness/Physical fitness	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2%	0.0%	0%
OSHA and Other Safety Training	2.2%	6.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	18.2%	0.0%	0.0%	0.0%	7.7%	1%
Other	4.4%	0.0%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	2.2%	0.0%	5%
Policies affecting CTE (Hathaway, legislation updates)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3%
Project Based Learning	4.4%	3.4%	2.2%	0.0%	6.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.2%	2.9%	7.7%	1%
ProStart Certification	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.0%	0.0%	0.0%	0.0%	0.0%	1.4%	0.0%	1%
Technology & Software Training (Info on new technologies or specific training, e.g, Adobe CS5, Promethean, CorrelDraw)	4.4%	6.9%	6.5%	23.8%	10.0%	0.0%	0.0%	3.0%	13.3%	0.0%	0.0%	0.0%	7.9%	0.0%	3%
Textiles/Fashion Design/Interior Design (Current Issues, new strategies)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2%	0.0%	0%
Welding Certification	6.7%	0.0%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	13.6%	0.0%	0.0%	1.4%	0.0%	1%
Welding (TIG & aluminum)	4.4%	0.0%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	18.2%	0.0%	0.0%	3.6%	0.0%	1%
Green Construction Training (also woodworking & general)	0.0%	3.4%	10.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2%	0.0%	0%
Perkins (general information and accountability)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	4%

	Type of Teacher														
	Agriculture, Food & Nat. Resources	Architecture & Construction: Cabinetmaking Woodworking & Carpentry	Architecture & Construction: Technical & Architectural Drafting	Arts, AV Tech., & Communications	Business, Management & Administration	Health Science	Hospitality & Tourism	Human Services	Information Technology	Manufacturing	Engineering	Transportation-Automotive Technology	Multiple Clusters	Other (electronics, communication, vet sci., justice, etc)	Administrative/ Non-instructional Teacher
Trends in Careers (job opportunities, career forecasts local, national and global, and trends within jobs)	4.4%	3.4%	2.2%	0.0%	6.0%	0.0%	0.0%	3.0%	0.0%	0.0%	0.0%	0.0%	1.4%	7.7%	3%

B. Audiences for Topic Areas: Respondents were asked what audiences would benefit from suggested topic areas.

	All CTE Teachers	CTE Teachers in related area	CTE & Academic Teachers	Administrators	Other	Total
21st Century Skills (includes Quantum learning, hands on learning, critical thinking)	28.6%	31.4%	20.0%	20.0%	0.0%	100.0%
Integrating Academic and CTE (career academies, integrating math, reading, & science, interdisciplinary possibilities)	24.1%	13.9%	41.8%	19.0%	1.3%	100.0%
Agriculture and Animal Sciences (FFA and CDE training certification, New technology in Ag, hydroponics)	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
CTE Assessments (voc. standards testing, assessing CTE programs)	71.4%	0.0%	0.0%	28.6%	0.0%	100.0%
Info on Art/Photography/AV (art dealing, video production, 3D production, photography)	14.3%	85.7%	0.0%	0.0%	0.0%	100.0%
Assessment Development/Strategies (exam writing, test prep, rubric/performance based assessment development)	41.9%	25.8%	12.9%	16.1%	3.2%	100.0%
Automotive (certification and general info on industry)	11.1%	88.9%	0.0%	0.0%	0.0%	100.0%
Business /Accounting/ Finance (business law, financial literacy, business plans, business ed., home based business)	18.8%	50.0%	18.8%	12.5%	0.0%	100.0%
Preparing students in Career Pathways and Education (career and college readiness, CTE pathways, career counseling)	29.6%	16.7%	22.2%	25.9%	5.6%	100.0%
Best Teaching Practices (time/class mngmt., differentiation (for gifted/ELL/speced), engagement, cooperative learning)	33.3%	12.3%	29.6%	21.0%	3.7%	100.0%
Core Standards for CTE (info and developing for state, info on national standards, how to meet standards)	37.5%	31.3%	9.4%	21.9%	0.0%	100.0%
CTE funding sources (what is available and how to obtain)	46.2%	15.4%	15.4%	15.4%	7.7%	100.0%
CTE and the Community (internships, community learning, partnering with local businesses, industry)	28.0%	24.0%	24.0%	16.0%	8.0%	100.0%
Culinary Arts (kitchen sanitation, soups and sauces)	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
Curriculum Development (e.g., to align to standards)	36.8%	31.6%	15.8%	10.5%	5.3%	100.0%
Helping Students Build on Math, Reading, Science skills	38.1%	19.0%	23.8%	14.3%	4.8%	100.0%
Drafting software training & reading blueprints (AutoCAD, Solidworks)	12.5%	83.3%	4.2%	0.0%	0.0%	100.0%
Education Leadership	10.0%	20.0%	30.0%	20.0%	20.0%	100.0%
Trends in Electronics, Robotics, Energy	16.7%	16.7%	33.3%	16.7%	16.7%	100.0%
Transitioning to Engineering & Engineering projects	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
Entrepreneurship/Marketing (portfolio management)	37.5%	62.5%	0.0%	0.0%	0.0%	100.0%
Family Consumer Science (Child Development, preschool organization, brain development, teen/family)	14.3%	57.1%	14.3%	14.3%	0.0%	100.0%
First Aide/CPR Certification	57.1%	14.3%	14.3%	14.3%	0.0%	100.0%

	All CTE Teachers	CTE Teachers in related area	CTE & Academic Teachers	Administrators	Other	Total
Grant Writing (general how to)	71.4%	28.6%	0.0%	0.0%	0.0%	100.0%
Graphic Design/Web Design	9.1%	63.6%	9.1%	9.1%	9.1%	100.0%
Healthcare (reform)	16.7%	33.3%	16.7%	16.7%	16.7%	100.0%
Importance of CTE (why its important, how to get word out, recruiting students)	27.8%	13.9%	13.9%	33.3%	11.1%	100.0%
Industry Specific Certification – Not Specified	36.4%	45.5%	9.1%	9.1%	0.0%	100.0%
Industry Specific Training/Information - Not-Specified	35.3%	64.7%	0.0%	0.0%	0.0%	100.0%
Integrating new technology in classroom /computer based instruction	47.1%	17.6%	29.4%	5.9%	0.0%	100.0%
Manufacturing (CNC & CAM Training, new developments)	8.3%	91.7%	0.0%	0.0%	0.0%	100.0%
Nutrition/Wellness/Physical fitness	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
OSHA and Other Safety Training	25.0%	43.8%	6.3%	25.0%	0.0%	100.0%
Other	36.4%	27.3%	9.1%	18.2%	9.1%	100.0%
Policies affecting CTE (Hathaway, legislation updates)	20.0%	0.0%	40.0%	40.0%	0.0%	100.0%
Project Based Learning	11.1%	33.3%	33.3%	22.2%	0.0%	100.0%
ProStart Certification	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
Technology & Software Training (Info on new technologies or specific training, e.g, Adobe CS5, Promethean, CorrelDraw)	21.2%	34.6%	25.0%	15.4%	3.8%	100.0%
Textiles/Fashion Design/Interior Design (Current Issues, new strategies)	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
Welding Certification	0.0%	90.0%	0.0%	0.0%	10.0%	100.0%
Welding (TIG & aluminum)	11.1%	61.1%	11.1%	5.6%	11.1%	100.0%
Green Construction Training (also woodworking & general)	18.2%	72.7%	9.1%	0.0%	0.0%	100.0%
Perkins (general information and accountability)	50.0%	0.0%	0.0%	50.0%	0.0%	100.0%
Trends in Careers (job opportunities, career forecasts local, national and global, and trends within jobs)	22.2%	33.3%	22.2%	22.2%	0.0%	100.0%

C. **Results on Previously Recommended Topic Areas:** The following areas have been offered as suggestions for professional development topics to the WDE. Respondents were asked to rate interest level (from not at all interested to very interested).

Overall Results

Suggested PD Topic Areas	Interested	Not Interested
Project based learning	65.9%	15.4%
Integration of CTE and academic courses	60.7%	16.4%
Performance task development for existing CTE assessments	52.8%	26.6%
Computer-aided drafting program industry training and/or certification	31.5%	55.9%
Composite materials industry training and/or certification	26.9%	53.8%
Certified Welding Educator (CWE) certification	26.8%	63.4%
Green construction industry training and/certification	26.3%	54.9%
Certified Welding Inspector (CWI) certification	20.7%	66.7%
Live automotive technology factory training seminar	13.1%	75.6%
Web based automotive technology factory training seminar	9.9%	77.0%

Results by Teacher CTE Area & Administrators: Percent Indicating Interest

	OSHA card/ certification for students and teachers	Performance task development for existing CTE assessments	Certified Welding Educator (CWE) certification	Certified Welding Inspector (CWI) certification	Live automotive technology factory training seminar	Web based automotive technology factory training seminar	Project based learning	Integration of CTE and academic courses	Composite materials industry training and/or certification	Computer - aided drafting program industry training and/or certification	Green constructio n industry training and/ certificatio n
Agriculture, Food & Nat. Resources	18.8%	43.8%	62.5%	56.3%	0.0%	0.0%	75.0%	50.0%	25.0%	12.5%	12.5%
Cabinetmaking, Woodworking & Carpentry	54.5%	36.4%	45.5%	18.2%	27.3%	0.0%	90.9%	63.6%	54.5%	54.5%	63.6%
Technical & Architectural Drafting	29.4%	47.1%	29.4%	11.8%	11.8%	5.9%	70.6%	58.8%	58.8%	88.2%	52.9%
Arts, AV Tech., & Communications	25.0%	50.0%	12.5%	12.5%	0.0%	0.0%	37.5%	37.5%	0.0%	0.0%	12.5%
Business, Management & Administration	9.5%	28.6%	0.0%	0.0%	0.0%	0.0%	61.9%	61.9%	14.3%	9.5%	0.0%
Engineering	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Health Science	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%
Hospitality & Tourism	28.6%	57.1%	0.0%	0.0%	0.0%	0.0%	85.7%	71.4%	28.6%	14.3%	0.0%
Human Services	33.3%	75.0%	0.0%	0.0%	0.0%	0.0%	83.3%	66.7%	16.7%	16.7%	8.3%
Information Technology	16.7%	66.7%	16.7%	16.7%	16.7%	33.3%	83.3%	83.3%	16.7%	16.7%	16.7%
Manufacturing	50.0%	50.0%	87.5%	87.5%	25.0%	12.5%	25.0%	25.0%	37.5%	37.5%	25.0%
Multiple Clusters	14.5%	50.0%	30.9%	21.8%	7.3%	3.6%	64.3%	60.7%	23.6%	32.7%	30.9%
Other*	40.0%	60.0%	0.0%	0.0%	0.0%	0.0%	40.0%	40.0%	0.0%	0.0%	20.0%
Transportation-Auto. Technology	37.5%	62.5%	12.5%	12.5%	100.0%	75.0%	62.5%	37.5%	25.0%	25.0%	12.5%
Administrators/ Non-Instructional Staff	32.1%	75.0%	32.1%	28.6%	25.0%	28.6%	67.9%	78.6%	32.1%	39.3%	39.3%

*Includes work experience, energy explorations, exploring technology, sports medicine, veterinary technology, electronics, communication, criminal justice.

D. **Results on Presentation Formats:** Respondents were asked to rate how interested they were in the following presentation/event formats (from not at all interested to very interested).

Overall Results

Format	Interested	Not Interested
Hands-on workshop or training	86.4%	2.8%
Demonstration	84.5%	7.0%
Field trip or tour	81.2%	8.0%
Live/hands-on industry training or certifications	77.9%	8.9%
Peer teaching	48.8%	28.2%
Computer based industry training or certifications	48.4%	21.6%
Keynote address with related break-out sessions	47.9%	23.7%
Small groups	45.3%	25.9%
Community service programs	42.9%	27.4%
Discussion or group dialogue	34.9%	31.6%
Lecture	20.8%	47.6%
Teleconference/Webinar	20.8%	50.0%
Keynote address only (no related break-out sessions)	15.6%	56.6%

Results by Type of Respondent

	Type of Respondent			
	Teacher		Administrator/Non-Instructional Staff	
	Interested	Not Interested	Interested	Not Interested
Keynote address only (no related break-out sessions)	86.7%	2.2%	85.7%	7.1%
Hands-on workshop or training	82.3%	7.7%	96.4%	3.6%
Computer based industry training or certifications	81.8%	7.7%	78.6%	7.1%
Teleconference/Webinar	79.6%	8.3%	71.4%	10.7%
Lecture	48.1%	21.5%	53.6%	17.9%
Small groups	47.5%	29.3%	53.6%	21.4%
Live/hands-on industry training or certifications	45.8%	24.6%	64.3%	14.3%
Discussion or group dialogue	44.4%	26.1%	39.3%	28.6%
Community service programs	43.9%	26.7%	57.1%	17.9%
Keynote address with related break-out sessions	32.8%	33.9%	50.0%	14.3%
Demonstration	22.2%	47.2%	14.3%	50.0%
Peer teaching	20.0%	52.2%	28.6%	32.1%
Field trip or tour	14.4%	57.2%	25.0%	50.0%

Results by Level

	Respondent Level			
	Secondary		Postsecondary	
	Interested	Not Interested	Interested	Not Interested
Field trip or tour	87.2%	2.8%	86.4%	0.0%
Keynote address only (no related break-out sessions)	82.7%	7.8%	90.9%	4.5%
Small groups	81.0%	6.7%	81.8%	13.6%
Demonstration	80.4%	8.4%	72.7%	9.1%
Discussion or group dialogue	51.4%	25.1%	27.3%	54.5%
Peer teaching	49.7%	21.2%	40.9%	22.7%
Live/hands-on industry training or certifications	47.2%	23.0%	31.8%	45.5%
Teleconference/Webinar	45.2%	23.7%	63.6%	22.7%
Keynote address with related break-out sessions	43.8%	25.3%	50.0%	31.8%
Community service programs	36.0%	30.3%	22.7%	40.9%
Lecture	21.9%	47.8%	18.2%	63.6%
Hands-on workshop or training	18.5%	47.2%	45.5%	45.5%
Computer based industry training or certifications	12.4%	59.6%	40.9%	31.8%

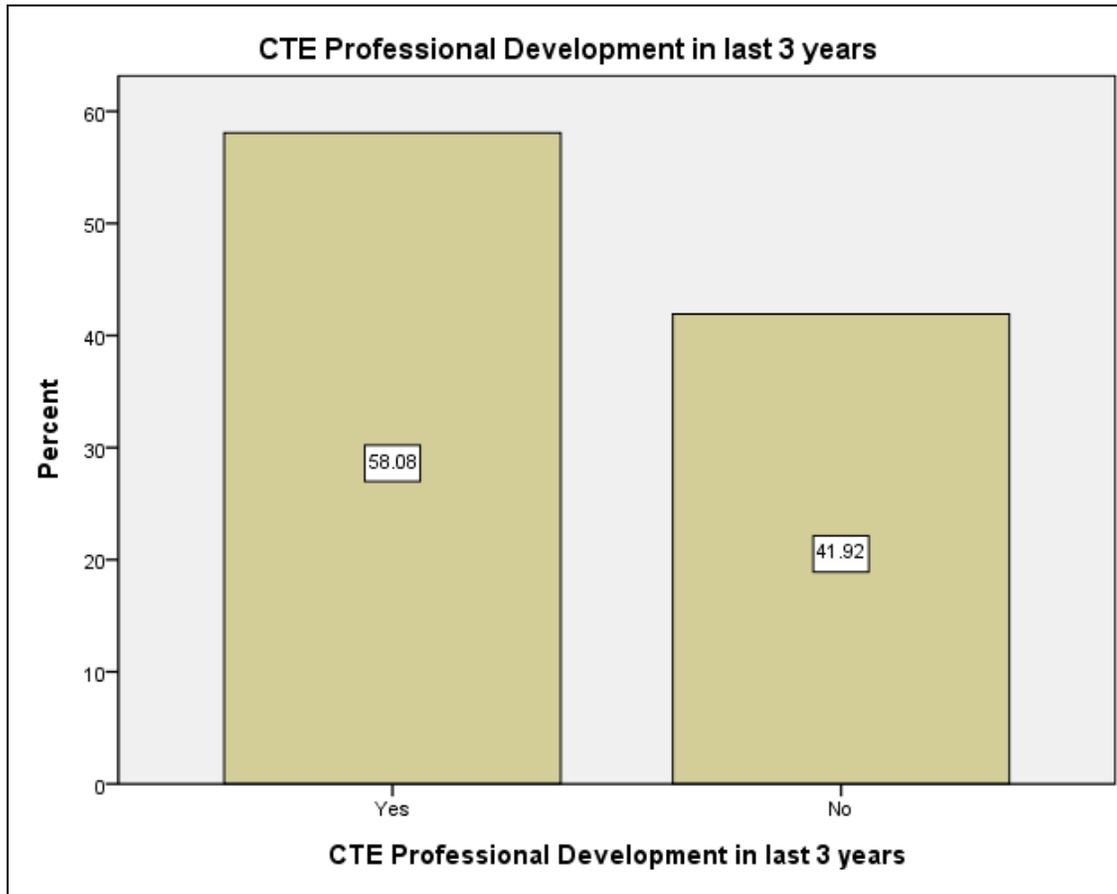
Other Suggested Formats

- Cake decorating, high altitude baking, computer technology using new items of technology.
- Computer based factory training for certification in auto would be great. Welding needs to be through AWS and follow their format.
- Don't make me sit and watch or listen. I need to do.
- Give me something concrete that I can use. For example, a good seminar I attended recently had the participants make small electric generators. I can replicate that in my own classroom.
- Hands on with other professionals in your field to keep up with the changes etc.

- I also believe it is critical to re-visit the CTE assessments ASAP. It seems the relationship between what is being taught and what is being tested are very different. Teachers need to make the necessary changes to the online tests so they are accurate.
- I would like to network more with teachers and state education representatives regarding CTE issues. I would like to see a range of professional development opportunities provided by the state. For example, could we consider a reimbursement by the state for going to such an event. I teach financial managements classes and I attended a workshop in Casper that was provided by the Federal Reserve. Could we develop a system that teachers apply for funding to go to these professional development events. In Wyoming, CTE programs are nonstandard and the same holds true for our professional development. Allow teachers to be able to apply for funding to be used for PD instead of development for the masses.
- In the Hospitality and Culinary Arts we should all be ServSafe trained and proctor approved. It would be nice for the WDE to provide that training.
- It is imperative to offer time to perform along with the instruction. So many times we listen to someone with great ideas and concepts but have no time to practice or network with others to try to implement ideas.
- Keep them centrally located (if possible). I know that I do not take advantage of the fall and spring teacher trainings. My school district never mentions them (that I'm aware of). Maybe school districts could be presented with some type of motivation for their teachers to attend.
- Please avoid presenters that do not "do" what they are talking about.
- Summer program bus tour of available industries etc. pertinent to our student population
- Summer WACTE Conference. CTE teachers are too busy to be out of school any more than already scheduled. CTSO's take a lot of time out of the classroom. Also ACTE and ACTE Region V.
- Teachers of hands-on subjects appreciate hands-on learning opportunities themselves ;-)
- The concern I have is that you go to an 8 hour class and get 30 minutes of info. Too many presenters want teach at basic level which most of us know already. We need to have our time well spent.
- The mini workshops we used to be able to take!!
- The more hands-on the better.
- The training should be related to the specific related area that is taught.
- WACTE doesn't get everyone, consider other more focused workshops. I know it gets a lot of use, but Casper is central to everyone and seems to get the most broad based turnout. For events that take a FULL day of time, I like the afternoon of day 1 & morning of day 2 format as it requires only one hotel stay. If the meeting will not take a full day, schedule in the middle of the day to allow for travel both ways. Most districts are cutting back on travel spending. Consider 3-4 regional meetings instead of one state meeting.
- We need any type of update training and professional development. We also need better notification of when such training is available. The word does not often trickle down from administration.
- Where is the CTE Specific track at the School improvement conference? I think there should be time allocated from federal dollars or state dollars for CTE folks to get together and share ideas, mentor new teachers and network.

Previous Professional Development Experience

A. Prior Participation in CTE professional development: Respondents were asked whether they had attended CTE-related professional development in the prior 3 years.



	Frequency	Valid Percent
Yes	115	58.1
No	83	41.9
Total	198	100.0

B. Attendance and Usefulness of Prior PD Experiences: Respondents were about specific professional development events and asked to rate how useful they were (from not at all useful to very useful).

	Useful	Not useful	Did Not Attend
Breakout Sessions - Part of WACTE	70.8%	5.6%	40.0%
Group Tours - Part of WACTE	66.1%	14.5%	47.5%
CTE Competency Development Workgroups	62.8%	10.3%	33.3%
CTE Assessment Development Workgroups	59.7%	11.7%	33.6%
Keynote Speaker - Part of WACTE	47.2%	22.2%	40.0%

C. Other Prior PD Experiences: Respondents were asked to share information about other PD experiences.

- All professional development in our district is geared toward the core classes. Having something that gets the CTE teachers involved and more motivated would be great.
- Also Foods and Nutrition at the WIN Wyoming. I would like Opportunities related to costume design, and textile education. I would like opportunities related to child development education.
- At the Wyoming Summer Institute the sessions I wanted were cancelled. Since I have certification in 4 areas- Business, Marketing, Cooperative Work Experience, and Culinary Arts it is difficult to participate equally in all activities. I need to see and use up to date technology equipment, my school is still on Office 2003
- How to maintain the integrity of your program and continue to accomplish the "project" part of our courses when they want us to spend more time teaching reading and math in our classes. Making it a "book" course instead of hands on is stressful.
- I am active in all the above organizations. On a national task force for Perkins through ACTE. I believe fully in the value of good solid professional development and active commitment to professionalism for all CTE teachers.
- I don't think there is enough communication to teachers about the PD that is offered in their specific fields. If it is content specific, there is more relevance for the teacher to justify going to the PD.
- I have attended all of the Professional Development Inservices held throughout the school year for the past 3 years. I teach 3 different classes on Food and School-to-Career Development and feel as though none of the inservices have been beneficial. I would like to see more PD based on a students application of technical skills in a career environment. It seems as though PD in the past has been based on improving computer skills, lesson plans, and classroom management/leadership. I think these things are important, but not useful year after year. The first week of PD seems like a waste of time when I could be planning for my classes. I would be more excited if I felt like I was learning something new pertaining to my field of study or learning how to teach my students how to apply their skills.

- I have attended culinary and professional baking training out of state, which was extremely useful, but very expensive to attend. It would be nice to have some culinary workshops offered in the summer, since these are usually a week long, and too difficult to attend during the school year.
- I have attended Culinary Training at Sheridan and Riverton colleges, but not really any CTE. All the training I have had is part of the Wyoming ProStart Program.
- I have attended professional development in Utah
- I have been to the Texas State Professional Conference for Career and Technology Teachers in Texas. It is a 5 day conference with many break out sessions, workshops and classes. It is fabulous.
- I have helped provide technology related courses and training in my district. The state has never offered anything like this as far as I know. It would be great if they do this!
- I have not recently attended CTE professional development because most of the trainings in the past have been outdated or completely irrelevant.
- I haven't been able to participate during the 1st weekend of June.
- I need to get training on the new hybrid vehicles.
- I think state standards were not totally explained to our groups, mostly because they were not written very clearly. Vocational people need to meet in a state wide meeting and get all of this on the table, especially if we become part of the Hathaway. Many are still very unclear about what the state expects of us. We have been left in the dark since the Strayer days. He was very good about visiting all high schools to keep us updated.
- I think we have a variety of information available to us. It seems that CTE is in an evolution that needs to catch up with the requirements/needs of the region/nation/world. I am hoping that soon someone takes hold of this challenge. It would be nice to know what "highly qualified" means in our discipline and allow us to feel that we are an integral part of the overall education of our future society.
- I was not looking at all forward to the Kagan Cooperative Learning Training. It was the BEST (without a doubt) professional development I have ever done!
- I was only aware of one CTE event in the last three years....
- Important that Graduate Credit be offered to participants!
- It's hard to find something in my main area of teaching (web design and computer programming). It's hard to do generic training -- mixing welding instructors, computer science and culinary arts.
- Lack of Automotive Technology Instruction: Flex Fuel Fuel Cells Electric Vehicles Other Alternative fuels
- Mini workshops! Hands on!
- Most of the district provided PD was of a general nature and not at all useful
- Most professional development opportunities are structured for core area classes. Our district has not put a value on training and interaction specific to elective teachers.
- My CTE training was all directed towards my area of teaching; Family and Consumer Science.
- PD is critical for teachers to continue to be informed of new models and or processes.
- Practical application is most desirable. Should be research based; but not too much time on the theory.
- Schedule seems to be difficult. We are very limited on substitutes, so hard to get teachers out during the year. Also, sometimes hard to get them to give up weeks in the summer. The school improvement conference never addresses CTE or on a very limited basis
- Since deadline dates happen before many of the summer workshops become available for scheduling, it would be nice to have some better way to have a change or add a workshop.

- Teachers need to showcase best practices--help train others so all students in Wyoming are getting the same level of education. Hands-on training works best for CTE instructors as their students are hands-on learners, too.
- The best training would be specific to the instructors training area. One size does not fit all in CTE
- The Career Pathways workshops were really good, more help in implementing would be helpful. We don't need more "why", we need more "how". The time I spent working on the Praxis for Technology was enlightening in that that is not the test our CTE teachers should be taking. The focus is totally different from CTE. I sincerely hope WDE does not intend to use this for CTE teachers, technology standards, focus and program concepts are radically different from CTE. For anyone working with Perkins, the NACTEI conf. is a goldmine of information. Annual meetings of Perkins Coordinators is really valuable. Maybe trying to include too many different groups is a waste of time.
- The CTE stuff during the summer always falls during a difficult time for me to attend. Having some events during the school year would be appreciated.

Obstacles and Preferences for Professional Development

A. **Obstacles to CTE professional development:** Respondents were asked about obstacles to their participation in professional development.

Overall Results

	Count	%
Inconvenient Timing	120	20.6%
Distance to event	91	15.6%
Cost	83	14.2%
Uninformed about availability	58	9.9%
Topics are not of relevance/waste of time	50	8.6%
No interest in topics	48	8.2%
No enough interactive activities	42	7.2%
No support/encouragement to attend	35	6.0%
No coverage for classroom/office	31	5.3%
No obstacles	25	4.3%

Other Obstacles Noted

- Coaching during the development (3)
- Cost of Substitutes
- I never want to take teaching time to do conferences.
- I offer summer class for sped kids
- in June taught summer school, participation is limited during school year
- New leave policy in district that discourages time out of class during the school year.
- Our district needs 30 to 45 days advance notice for professional leave.
- Principals at my school pulled my program out of the CTE unit and that is where I should be as a business teacher

Results by Respondent

	Type of Respondent	
	Teacher	Administrator/ Non-Instructional Staff
Inconvenient Timing	20.7%	17.9%
Distance to event	15.1%	20.9%
Cost	14.5%	11.9%
Uninformed about availability	10.0%	9.0%
Topics are not of relevance/waste of time	8.4%	10.4%
No interest in topics	8.2%	7.5%
No enough interactive activities	6.7%	10.4%
No support/encouragement to attend	6.7%	1.5%
No coverage for classroom/office	5.5%	4.5%
No obstacles	4.3%	3.0%

Results by Level

	Level	
	Secondary	Postsecondary
Inconvenient Timing	21.0%	18.7%
Distance to event	15.2%	18.7%
Cost	14.2%	13.3%
Uninformed about availability	10.3%	9.3%
No interest in topics	8.2%	6.7%
Topics are not of relevance/waste of time	8.2%	12.0%
No enough interactive activities	7.2%	6.7%
No support/encouragement to attend	6.2%	5.3%
No coverage for classroom/office	5.1%	6.7%
No obstacles	4.3%	2.7%

B. **Factors Important for CTE professional development:** Respondents were asked the most important factors in determining whether to participate in professional development.

Overall Results

	Count	%
Topic	152	25.6%
Timing	141	23.7%
Location	124	20.9%
Cost	84	14.1%
Format	44	7.4%
Duration	42	7.1%
Other	7	1.2%

Other Factors Reported

- Being made aware of opportunities.
- Do not have administrative support for CTE professional development (2)
- Feel the material doesn't apply to my teaching
- Fitting in to my school schedule
- Grad Credit
- I never want to take time out of my teaching schedule to attend. My students have State exams to pass.
- Need 45 days advance notice
- Not able to attend summer conference because off summer classes i offer for sped kids
- Not enough Perkins funds for subs
- Professional development credit
- Topics

Results by Respondent

	Type of Respondent	
	Teacher	Administrator/ Non-Instructional Staff
Topic	25.0%	31.7%
Timing	23.2%	24.4%
Location	21.2%	19.5%
Cost	13.8%	15.9%
Format	7.8%	4.9%
Duration	7.6%	3.7%
Other	1.4%	0.0%

Results by Level

	Level	
	Secondary	Postsecondary
Topic	25.4%	27.0%
Timing	23.9%	19.0%
Location	21.3%	22.2%
Cost	12.8%	20.6%
Format	7.9%	4.8%
Duration	7.3%	6.3%
Other	1.4%	0.0%

C. **Preferred Times for CTE professional development:** Respondents were asked for the best times to participate in professional development.

	Bad time	Okay time	Good time
During Summer Conference	22.3%	36.2%	41.5%
Weekdays	10.7%	52.9%	36.4%
Around or Adjacent to WACTE	21.3%	45.2%	33.5%
June	34.0%	33.0%	33.0%
July	40.6%	36.9%	22.5%
August	57.4%	21.3%	21.3%
Around or Adjacent to School Improvement Conference	27.7%	51.1%	21.3%
November	37.2%	43.1%	19.7%
October	38.8%	44.1%	17.0%
February	45.7%	37.8%	16.5%
April	48.4%	36.7%	14.9%
March	50.0%	35.6%	14.4%
Weekends	53.2%	35.1%	11.7%
January	57.4%	31.9%	10.6%
September	55.3%	35.1%	9.6%
May	67.0%	25.5%	7.4%
December	61.7%	30.9%	7.4%

D. **Total Time for CTE professional development:** Respondents were how much time they would feel comfortable spending on professional development in a single year.

	Frequency	Valid Percent
3 days	58	30.7
2 days	47	24.9
5 or more	44	23.3
4 days	31	16.4
1 day	8	4.2
Less than 1 day	1	.5
Total	189	100.0

E. **Format of Days for CTE professional development:** Respondents were asked whether they prefer professional development to occur once during the year over consecutive days or spread out as single or half days over the year.

	Frequency	Valid Percent
Prefer several consecutive days once a year	118	63.1
Prefer half or single days spread out over course of year	54	28.9
Other*	15	8.0
Total	187	100.0

*Does not matter (both options are ok), or depends on topic

F. **Location of CTE professional development:** Respondents were asked their top 3 choices for the location of professional development in Wyoming.

Overall Results

	Valid Percent
Casper	25.1
Laramie	11.8
Riverton	10.3
Other	10.3
Sheridan	9.3
Jackson	8.7
Torrington	6.2
Lander	5.0
Rock Springs	5.0
Powell	4.5
Thermopolis	3.7
Total	100.0

Other Locations Reported

- Afton
- Best if rotated around the state - various junior colleges
- Buffalo
- Cheyenne (3)
- Cody
- Denver, Colorado

- Douglas
- Evanston, Afton
- Fort Collins
- Gillette (2)
- I need a place with professional photographers or graphic artists
- It depends on the type of PD (2)

Results by Respondent

	Type of Respondent	
	Teacher	Administrator/ Non-Instructional Staff
Casper	25.6%	22.5%
Jackson	8.9%	7.0%
Lander	4.8%	7.0%
Laramie	11.6%	12.7%
Powell	4.8%	2.8%
Riverton	10.3%	9.9%
Rock Springs	5.0%	4.2%
Sheridan	9.9%	5.6%
Thermopolis	3.9%	2.8%
Torrington	5.8%	8.5%
Other	9.5%	16.9%

Results by Region

	Region of School								
	Region 1: Laramie County	Region 2: Carbon & Albany Counties	Region 3: Lincoln, Sweetwater, & Uinta Counties	Region 4: Johnson & Sheridan Counties	Region 5: Big Horn, Hot Springs, Park & Washakie Counties	Region 6: Campbell, Crook, & Weston Counties	Region 7: Natrona County	Region 8: Converse, Goshen, Niobara, & Platte Counties	Region 9: Fremont, Sublette & Teton Counties
Casper	33.3%	28.8%	12.8%	28.6%	20.8%	31.0%	29.3%	31.8%	23.6%
Jackson	0.0%	1.9%	23.1%	0.0%	3.1%	2.4%	10.7%	4.7%	18.1%
Lander	0.0%	5.8%	6.4%	0.0%	4.2%	0.0%	5.3%	0.9%	15.3%
Laramie	16.7%	26.9%	7.7%	4.8%	4.2%	9.5%	17.3%	16.8%	4.2%
Powell	0.0%	3.8%	0.0%	0.0%	20.8%	0.0%	0.0%	1.9%	0.0%
Riverton	0.0%	11.5%	14.1%	0.0%	12.5%	0.0%	9.3%	0.9%	27.8%
Rock Springs	0.0%	5.8%	24.4%	0.0%	0.0%	0.0%	0.0%	1.9%	5.6%
Sheridan	8.3%	0.0%	0.0%	42.9%	14.6%	21.4%	17.3%	2.8%	4.2%
Thermopolis	0.0%	0.0%	1.3%	14.3%	10.4%	2.4%	5.3%	0.0%	1.4%
Torrington	8.3%	3.8%	0.0%	0.0%	0.0%	7.1%	1.3%	26.2%	0.0%
Other	33.3%	11.5%	10.3%	9.5%	9.4%	26.2%	4.0%	12.1%	0.0%