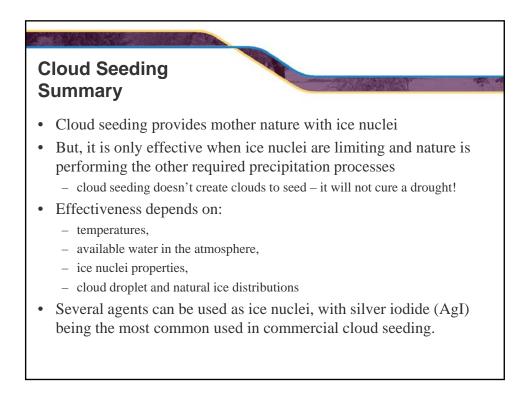
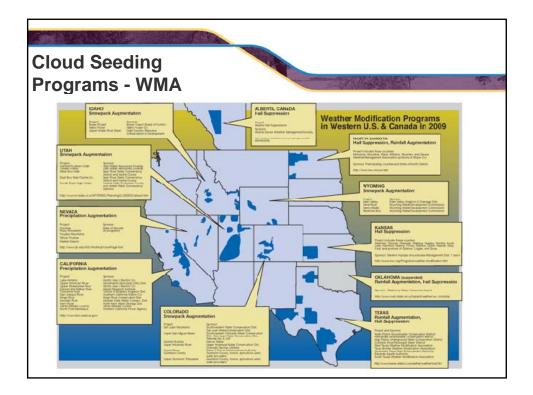


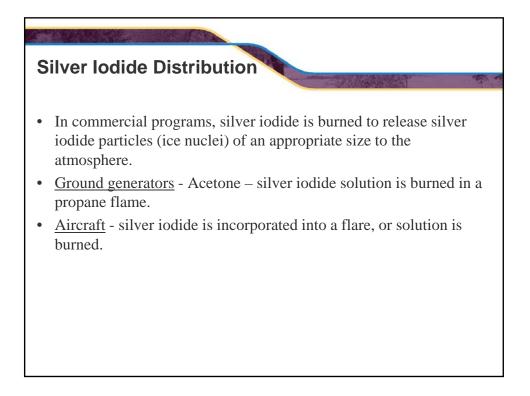
## Winter Orographic Cloud Seeding

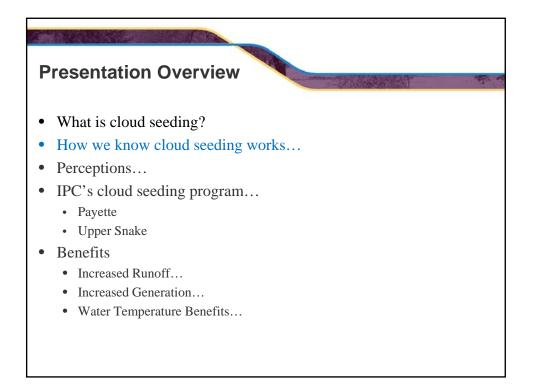
- <u>Snowfall is thus increased incrementally</u> because more ice crystals have a better opportunity to grow and fall as snow while over the mountain.
- <u>Cloud seeding</u> enhances the efficiency of converting supercooled cloud water into snow, increasing precipitation (snowfall) efficiency. Otherwise, this cloud water would likely pass over the mountain and evaporate.

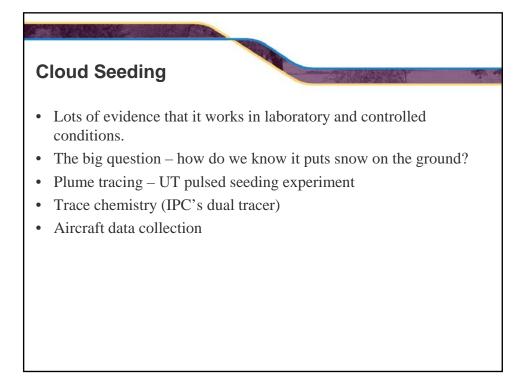


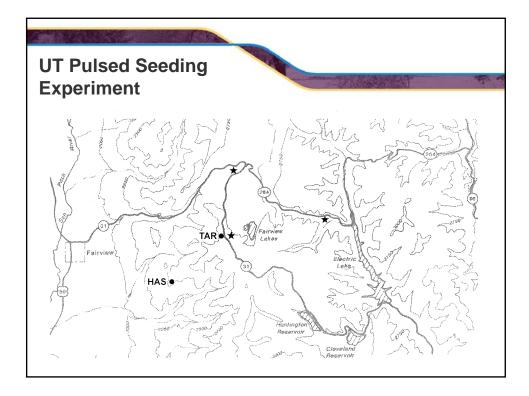


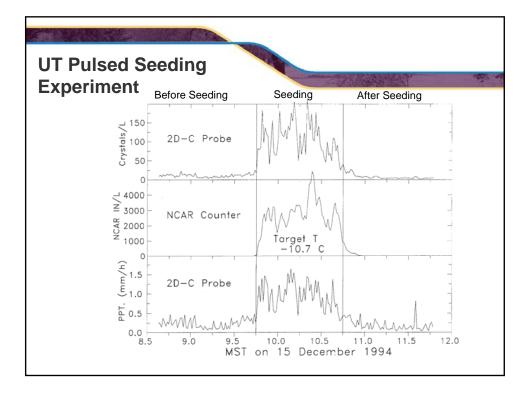


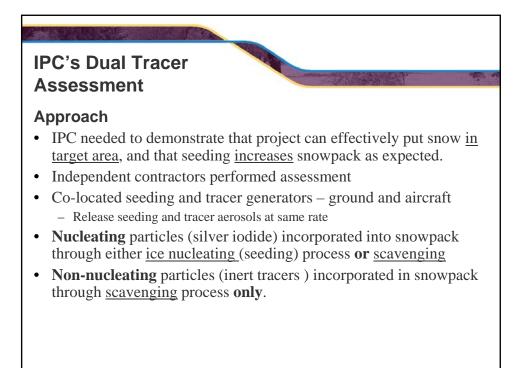




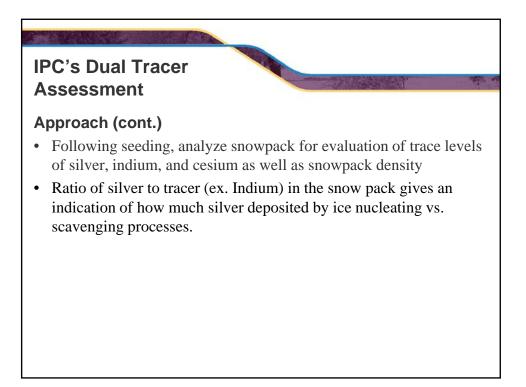










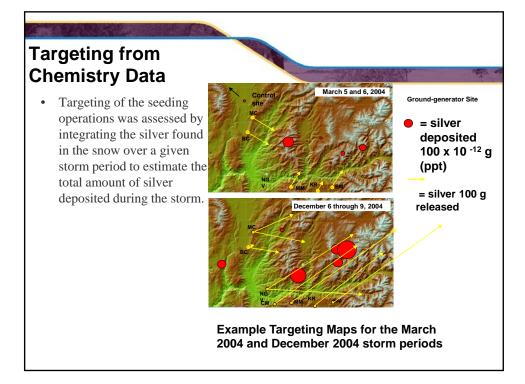


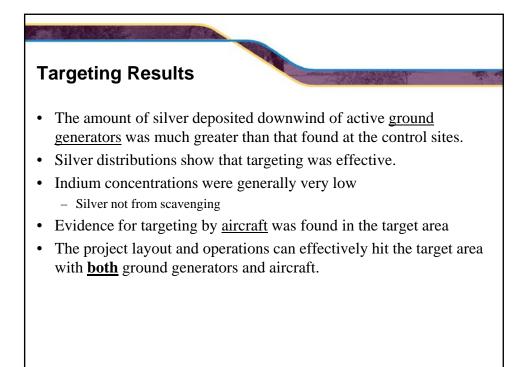


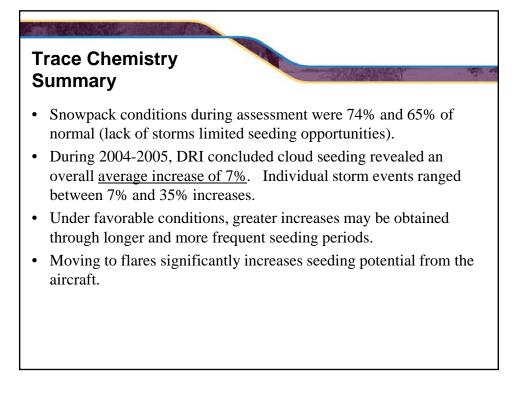
## **Analytical Methods**

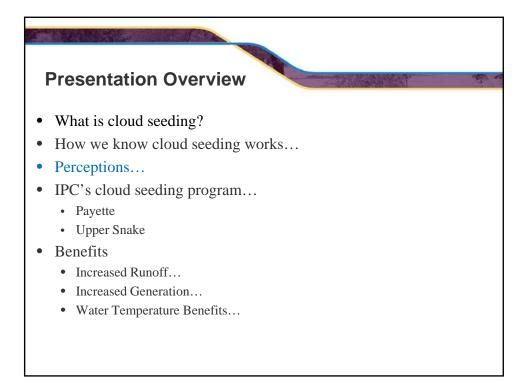
- Samples acidified with ultra-pure nitric acid in <u>class 100 clean room</u>.
- Analysis by High Resolution Inductively Coupled Plasma Mass Spectrometry.
- Detection limits of ~ 300 parts per quadrillion for silver
  - $-\phantom{0}300\,/\,1,\!000,\!000,\!000,\!000\,(10^{15})$
- Think of it as a single drop of water in a cube 368m on a side or in a sports arena like the Idaho Center (Nampa, ID), or 5 minutes out of 31.7 million years.

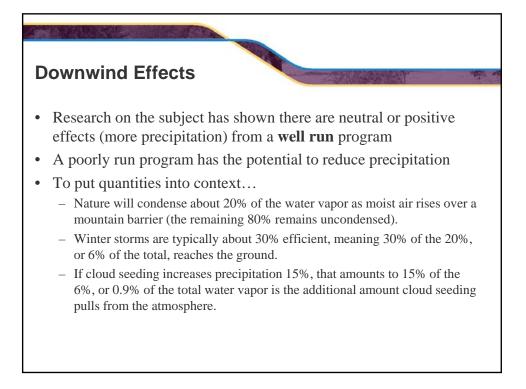


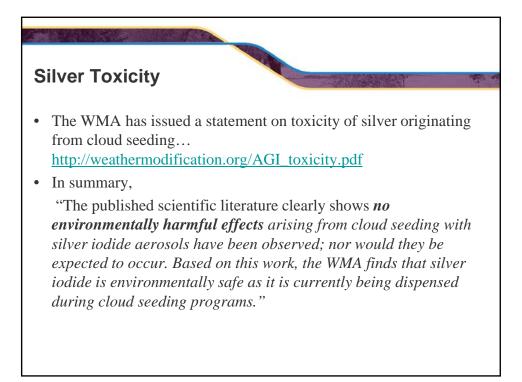


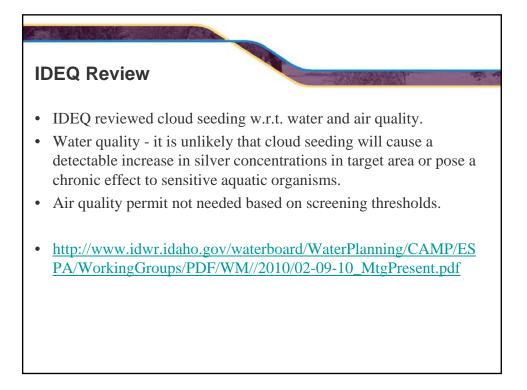


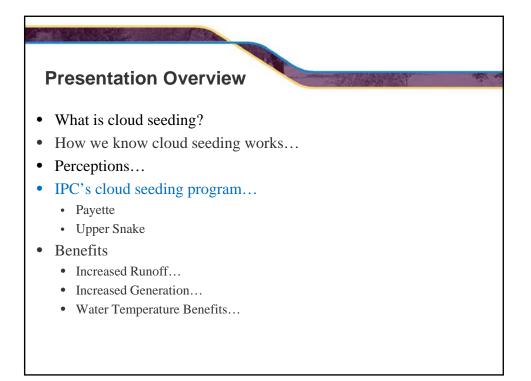


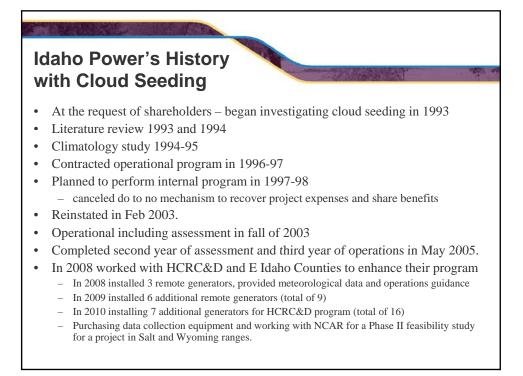


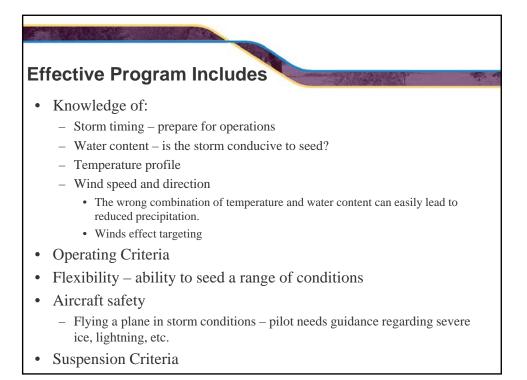


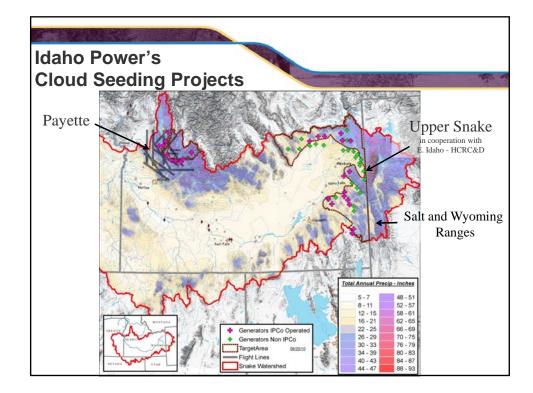


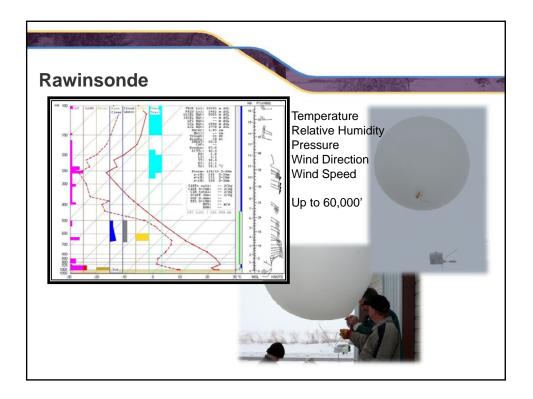


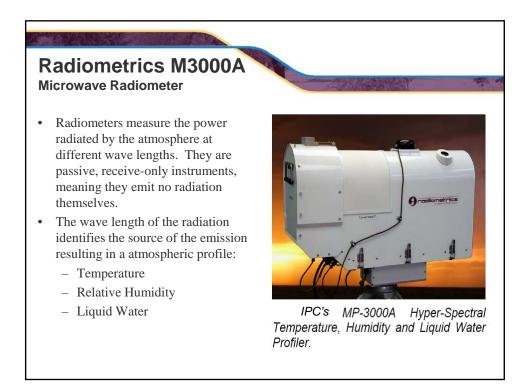


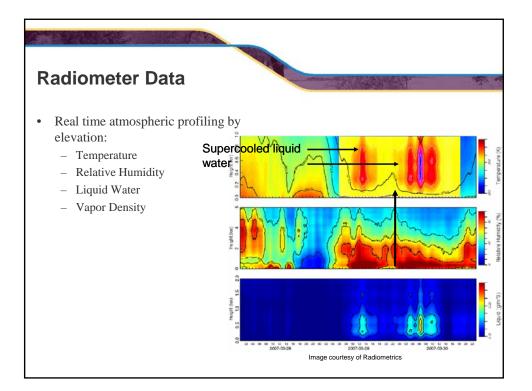


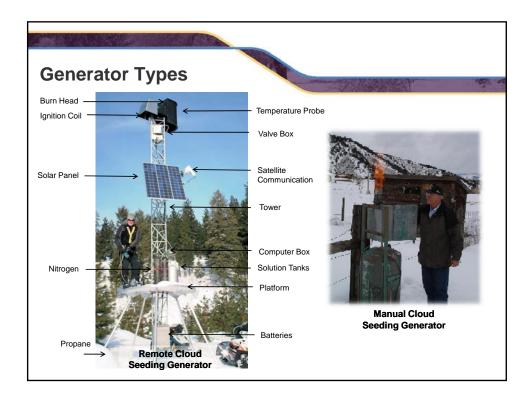




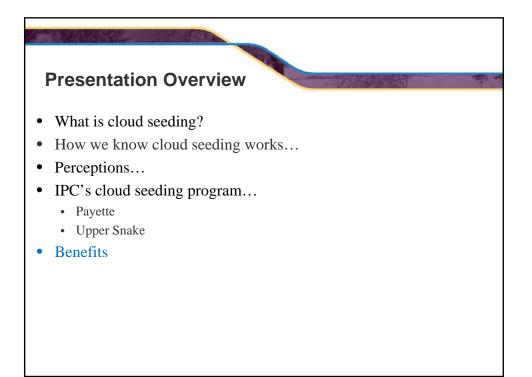


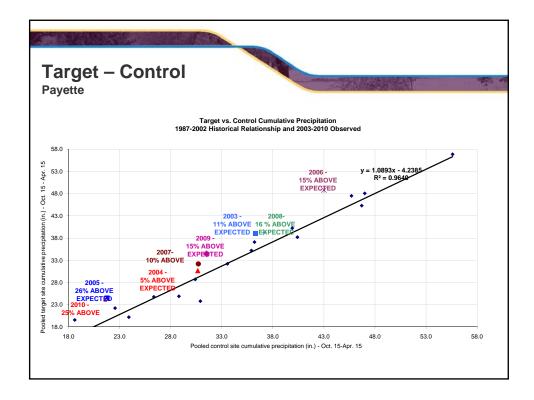












Water Year	(April-July) % Normal*	% TC** Benefit	Silver Iodide (grams)			Hours		Status
			Total	Air	Ground	Air	Ground	Status
2003	93%	16%	33558	23270	10288	15.4	515	start-up (Feb-April)
2004	74%	5%	21485	2803	18682	11.9	930	assessment
2005	65%	25% / 7% <sup>***</sup>	27301	11122	16179	50.5	810	assessment
2006	136%	15%	113173	97710	15463	48.5	768	operational
2007	56%	10%	106082	76980	29102	51.3	1351	operational
2008	105%	16%	61147	38740	22407	29.4	1123	operational
2009	91%	15%	50274	26110	24164	17.1	1208	operational
2010	89%	25%	49823	30090	19733	17	987	operational
' Unregula	ated Payette Apr-Jul	volume at Hor	rseshoe Be	nd '71-'00	(USBR)			
	rget Control							
*** DRI Tr	ace chemistry averag	e benefit						
eeding Sumr	mary All Years_10.xlsx							

